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

Responsible Party PERMIAN WATER SOLUTIONS, LLC

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	nTO1502927174
District RP	1RP-3512
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID 373626

Contact Name JENNI USHER			Contact	Contact Telephone 512-820-8772			
Contact email JENNI@PERMIANWS.COM			Incident	Incident # (assigned by OCD) nCH1834760902, nOY1823336566,			
Contact mailin	g address	PO BOX 2106,	MIDLAND, TX 7	9702		nOY1821950108, nCH1821239639, nOY1803834027, nOY1730058924,	
	Location of Release					nKL1632848695, nJXK1616127644, nKJ1512041707, nTO1502927174, nPAC0531137785	
Latitude	32.48086		(NAD 83 in dec	Longitud imal degrees to 5 de	e103.4 cimal places)	42300	
Site Name KA	AISER STA	ATE SWD #009		Site Typ	Site Type SALT WATER DISPOSAL		
Date Release D		112 5 112 11 1100			applicable) 30-02		
				I			
Unit Letter	Section	Township	Range	Со	unty		
F	13	21S	34E	LEA	Λ		
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) UNKNOWN Volume Recovered (bbls)							
X Produced W	Vater	VONKNOWN		OWN	Volume Re	covered (bbls)	
		Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		nloride in the	Yes	☐ Yes ☐ No	
Condensate	;	Volume Released			Volume Re	ecovered (bbls)	
Natural Gas	S	Volume Released	d (Mcf)		Volume Re	ecovered (Mcf)	
Other (desc	Other (describe) Volume/Weight Released (provide units)			units)	Volume/Wo	eight Recovered (provide units)	
Cause of Relea C-141 FILED		RESS MULTIPLE	HISTORICAL IN	NCIDENTS AT	THIS WELL.		

Received by OCD: 8/29/2023 3:37:34 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division Page 2 of 1449

Incident ID nTO1502927174

District RP 1RP-3512

Facility ID

Application ID

Was this a major	If YES, for what reason(s) does the respor	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	AT LEAST ONE OF THE HISTORICA	L INCIDENTS REPORTED WAS GREATER THAN 25 BBLS,
19.13.29.7(A) NWAC:	WHICH SIGNIFIES A MAJOR RELEAS	SE.
X Yes No		
·	·	om? When and by what means (phone, email, etc)?
PLEASE SEE PREVIO	US C-141'S.	
	Initial Re	esponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
\overline{X} The source of the rele	ease has been stopped.	
X The impacted area ha	s been secured to protect human health and	the environment.
X Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
X All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
I hereby certify that the info	rmation given above is true and complete to the	pest of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release noti:	fications and perform corrective actions for releases which may endanger
failed to adequately investig	ate and remediate contamination that pose a thre	CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
	Helleb	
Printed Name: JENNI	USHER	Title: REGULATORY ANALYST
Signature: Jenní U.	sher	Date: 9/14/2021
email: JENNI@PERMI	ANWS.COM	Telephone: 512-820-8772
OCD Only		
Received by:		Date:

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Incident ID	nTO1502927174
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Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district of fice no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody				

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Page	4	of	1449)

Incident ID	nTO1502927174
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Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	occ does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

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Incident ID	nTO1502927174
District RP	1RP-3512
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.		
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation point □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.1 □ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC		
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation		
	oduction equipment where remediation could cause a major facility		
☐ Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.		
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:JENNI USHER	Title: REGULATORY ANALYST		
Signature: Jenní Usher	Date: 9/21/2021		
email: <u>JENNI@PERMIANWS.COM</u>	Telephone:512-820-8772		
OCD Only			
Received by:	Date:		
☐ Approved ☐ Approved with Attached Conditions of	Approval Denied Deferral Approved		
Signature:	Date:		

REMEDIATION PLAN IS TO FOLLOW SLO PHASE 1 AND PHASE 2 WORK PLANS USING TETRA TECH DELINEATION REVISED WORK PLAN DATED JANUARY 27, 2020 TO RESOLVE ALL OUTSTANDING INCIDENTS. WORK PLAN IS ATTACHED.

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachme	ent Checklist: Each of the follow	ving items must be incl	uded in the closure re	port.
A scaled site and samp	ling diagram as described in 19.15	5.29.11 NMAC		
Photographs of the ren must be notified 2 days price		hotos of the liner integr	rity if applicable (Note	e: appropriate OCD District office
Laboratory analyses of	final sampling (Note: appropriate	e ODC District office m	aust be notified 2 days	prior to final sampling)
Description of remedia	ation activities			
and regulations all operators may endanger public health should their operations have human health or the environ compliance with any other frestore, reclaim, and re-vege accordance with 19.15.29.13	are required to report and/or file or the environment. The acceptant failed to adequately investigate at ment. In addition, OCD acceptant federal, state, or local laws and/or retate the impacted surface area to the acceptant of the acceptant factor of the acceptant for the acceptant factor of	certain release notificate of a C-141 report by nd remediate contaminate of a C-141 report do regulations. The responsible conditions that exist the OCD when reclaminate. Title: Properties.	ions and perform corre- y the OCD does not re- ation that pose a threat es not relieve the oper nsible party acknowled and prior to the release ation and re-vegetation	lieve the operator of liability to groundwater, surface water, ator of responsibility for dges they must substantially or their final land use in
OCD Only				
Received by: Shelly Well	S	Date: <u>8</u>	/30/2023	
remediate contamination that	D does not relieve the responsible at poses a threat to groundwater, surely other federal, state, or local law	ırface water, human hea	d their operations have lth, or the environmen	e failed to adequately investigate and t nor does not relieve the responsible
Closure Approved by:	Nelson Velez Nelson Velez	Date:	09/01/2023	
Printed Name:	Nelson Velez	Title:	Environmental S	Specialist -Adv

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN RE PERMIAN WATER SOLUTIONS, LLC

NMOCD-ACO-201813

AGREED COMPLIANCE ORDER

Pursuant to the New Mexico Oil and Gas Act ("Act"), NMSA 1978, Section 70-2-1, et seq., and 19.15.29.15 NMAC, the Director of the Oil Conservation Division ("OCD") and Permian Water Solutions, LLC ("PWS") enter into this Agreed Compliance Order ("Order").

I. FINDINGS OF FACT AND CONCLUSIONS OF LAW

- 1. OCD is charged with the administration and enforcement of the Act and the rules adopted thereunder, and has jurisdiction over Operator and its wells and sites in New Mexico.
- 2. PWS owns the wells identified in Exhibit A ("Wells").
- 3. On October 15, 2018, Cambrian Management, LTD and PWS submitted a Form C-145 application and requested OCD's approval to transfer the Wells.
- 4. PWS in the Form C-145 application certified that, as a condition of OCD's approval to transfer the Wells, it would be responsible to take corrective action for releases at the Wells, "including releases that occurred before I became operator of record."
- 5. On October 16, 2018, OCD approved the Form C-145 application to transfer the Wells.
- 6. Pursuant to 19.15.29.7(C) NMAC, PWS is the "responsible party" for the releases at the Wells.
- 7. Pursuant to 19.15.29 NMAC, PWS must characterize and remediate the releases at the Wells identified in Exhibit A ("Incidents").
- 8. PWS has initiated the characterization and remediation of the Incidents at the Kaiser Well
- 9. OCD is authorized to impose sanctions for violations of the Oil and Gas Act and orders issued and rules promulgated pursuant to the Oil and Gas Act, including denial or revocation of registrations, applications, permits, authorizations and transfers, and the assessment of civil penalties. See 19.15.5.10 NMAC.
- 10. PWS requests this Order in order to avoid sanctions under the Oil and Gas Act and 19.15.29 NMAC for the Incidents and to provide PWS an opportunity to demonstrate its commitment to compliance with the Act and rules.

PWS admits the findings of fact and waives its right to appeal from this Order, provided however that PWS reserves the right to appeal OCD's interpretation or application of this Order.

II. ORDER

12. <u>Kaiser Incidents.</u> PWS shall complete the remediation of the Kaiser Incidents in accordance with the OCD-approved remediation plan.

13. Other Incidents.

- A. PWS shall submit characterization and remediation work plans for the Incidents through the OCD fee portal no later than May 27, 2022.
- B. If OCD does not approve a characterization or remediation work plan, OCD shall provide a written explanation of the deficiency, and no later than thirty (30) days after OCD provides such explanation, PWS shall submit a revised work plan addressing the deficiency. If OCD does not approve the revised work plan, OCD shall provide a written explanation of the deficiency, and no later than thirty (30) days after OCD provides such explanation, PWS shall submit a second revised work plan addressing the deficiency. If OCD does not approve the second revised work plan, PWS shall be in breach of the Order, and PWS shall pay a stipulated penalty and be subject to additional sanctions as provided below.
- C. No later than the last deadline, which includes any extensions granted, as established by OCD for the final completion of the remediation work of each of the other Incidents, PWS shall complete the characterization and remediation of each of the other Incidents, provided however that PWS may request an extension of time for good cause shown.
- D. In evaluating a request for an extension of time under subparagraph C, OCD shall consider PWS's status as a small operator with limted resources, its ongoing commitment of resources to other remediation projects in New Mexico, including the Kaiser remediation project, and its need to reallocate resources before commencing a a remediation project required by this Order.

- Documents and Other Communications.
 - A. Paragraphs 13 and 14. PWS shall submit all documents related to Paragraphs 13 and 14 through the OCD Permitting fee portal.
 - B. Other Communications. All other communications related to the Order shall be submitted electronically to:

OCD: Jesse Tremaine, Esq.

JesseK.Tremaine@state.nm.us

PWS: Luke Kittinger, Esq. Luke@abadieschill.com

- 15. If PWS fails to comply with a requirement of this Order, no later than thirty (30) days after receipt of a written demand from OCD, in addition to any other sanction imposed by OCD pursuant to the Oil and Gas Act and the rules adopted thereunder, PWS shall pay a stipulated penalty of \$500.00 for each day until it complies with each separate requirement ("Stipulated Penalty"). Each failure to comply with a requirement of this Order shall be subject to a separate Stipulated Penalty.
- 16. If PWS fails to pay the Stipulated Penalty or portion thereof within thirty (30) days after receipt of a written demand from OCD, it shall pay interest on the Stipulated Penalty or unpaid portion thereof until paid in full at the interest rate of 8.75 percent.
- 17. Notwithstanding an assessment of a Stipulated Penalty, PWS shall comply with its remaining obligations of this Order.
- 18. Upon receipt of written request, OCD and PWS shall confer in good faith to resolve any dispute regarding the Order.
- 19. If PWS cannot reasonably perform or achieve an obligation under this Order due to Force Majeure, OCD shall stay the obligation and any other reasonably related obligation until OCD in its sole discretion decides PWS can reasonably comply with such obligation and the period for compliance with such obligation and any other reasonably related obligation shall be extended for an additional number of days equivalent to the period of the stay. For the purpose of this Order, Force Majeure means an event beyond the reasonable control of PWS which prevents PWS from complying with an obligation under this Order, including fire, explosion, earthquake, drought, flood, war, terrorism, or an agency's undue delay to issue a permit, easement, license or other required consent required to comply with this Order.
- 20. Upon successful completion of this Order, OCD shall notify PWS in writing that it is released from liability for the Incidents.

21. OCD reserves the right to sanction PWS for any alleged violation not addressed in this Order, provided however that PWS reserves all rights accorded by statute and regulation.

NEW MEXICO OIL CONSERVATION DIVISION

Woul	Date:	2/17/2022	
Adrienne Sandoval			
Director			

PERMIAN WATER SOLUTIONS, LLC

Josh Brooks President Pate: 1-28-20

EXHIBIT A

WELL	API	INCIDENT ID	DISCOVERY DATE	LOCATION	DISTRICT	MATERIAL	SOURCE
KAISER STATE SWD #009	30-025-02538	nCH1834760902	11/2/2018	F-13-21S-34E	Hobbs		
KAISER STATE SWD #009	30-025-02538	nOY1823336566	8/17/2018	F-13-21S-34E	Hobbs	Produced Water	Valve
KAISER STATE SWD #009	30-025-02538	nOY1821950108	8/6/2018	F-13-21S-34E	Hobbs	Produced Water	Pump
KAISER STATE SWD #009	30-025-02538	nCH1821239639	6/20/2018	F-13-21S-34E	Hobbs	Produced Water	Other
KAISER STATE SWD #009	30-025-02538	nOY1803834027	2/7/2018	F-13-21S-34E	Hobbs	Produced Water	Pump
KAISER STATE SWD #009	30-025-02538	nOY1730058924	10/18/2017	F-13-21S-34E	Hobbs	Produced Water, Crude Oil	Unknown
KAISER STATE SWD #009	30-025-02538	nKL1632848695	not stated	F-13-21S-34E	Hobbs	Produced Water	Frac Tank
KAISER STATE SWD #009	30-025-02538	nJXK1616127644	5/17/2016	F-13-21S-34E	Hobbs	Produced Water	Tank
KAISER STATE SWD #009	30-025-02538	nKJ1512041707	4/24/2015	F-13-21S-34E	Hobbs	Produced Water	Pipeline
KAISER STATE SWD #009	30-025-02538	nTO1502927174	1/14/2015	F-13-21S-34E	Hobbs	Produced Water	Production Tank
KAISER STATE SWD #009	30-025-02538	nPAC0531137785	9/11/2005	F-13-21S-34E	Hobbs	Produced Water	Pipeline
DORSTATE SWD #001	30-015-23728	nAB1724135283	8/23/2017	H-27-25S-28E	Artesia	Produced Water	Other
DORSTATE SWD #001	30-015-23728	nAB1613157015	5/2/2016	H-27-25S-28E	Artesia	Produced Water	Valve
A N ETZ #001	30-025-07713	nOY1804732368	7/15/2017	P-26-19S-38E	Hobbs	Produced Water	Flow
RICE SWD F #029	30-025-12802	nLWJ1008538662	11/11/2006	F-29-18S-38E	Hobbs	Produced Water	Other
RICE SWD F #029	30-025-12802	nPAC0633335042	11/11/2006	F-29-18S-38E	Hobbs	Produced Water	Pipeline
ANN SWD #001	30-015-23580	nMAP1825433366	9/5/2018	G-18-19S-26E	Artesia	Produced Water	Tank
DELAWARE RIVER #002	30-015-24784	nAB1721451368	7/25/2017	E-11-26S-28E	Artesia	Produced Water	Fitting
EXXON STATE #003	30-015-01096	nGEG0433742034	12/2/2004	O-15-21S-27E	Artesia	Crude Oil	Production Tank
ROHMER #001	30-015-25722	nAB1817142364	6/13/2018	F-23-22S-27E	Artesia	Produced Water	Valve



CLOSURE REPORT FOR KAISER STATE SWD LEA COUNTY, NEW MEXICO

Prepared for:

PERMIAN WATER SOLUTIONS, LLC.

P.O. Box 2106 MIDLAND, TEXAS 79702

Prepared by:

Tetra Tech

901 West Wall Street, Suite 100 Midland, Texas 79701 (432) 682-4559 Fax (432) 682-3946

May 2, 2023

complex world CLEAR SOLUTIONS-



May 2, 2023

New Mexico State Land Office 310 Old Santa Fe Trail P.O. Box 1148 Santa Fe, New Mexico 87504 Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico, 88240

Re: Closure Report for the Permian Water Solutions, LLC., Kaiser State SWD, Unit F, Section 13, Township 21 South, Range 34 East, Lea County, New Mexico.

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by Permian Water Solutions, LLC. (Permian Water Solutions) to assess the impacted areas at the Kaiser State SWD, Unit F, Section 13, Township 21 South, Range 34 East, Lea County, New Mexico. The site coordinates are 32.48086°, -103.42566°. The site location is shown on **Figures 1** and **2**.

Background

Ten releases occurred at the site impacting the pad area and inside the facility berms. The initial C-141 Forms are include in **Appendix A**.

- NPAC0531137785: According to the State of New Mexico Permitting Site, the release
 was discovered on September 11, 2005 and released approximately 10 bbls of produced
 water due to a broken line. Approximately 9 bbls of fluids were recovered.
- 1RP-3512: According to the State of New Mexico C-141 Initial Report submitted by Pyote Water Systems, LLC, the release was discovered on January 14, 2015 and released approximately 20 bbls of produced water due to a vac truck overfilling the sumps. Approximately 20 bbls of fluids were recovered.
- 1RP-3621: According to the State of New Mexico C-141 Initial Report submitted by Pyote Water Systems, LLC, the release was discovered on April 24, 2015 and released approximately 100 barrels of produced water due to a truck hitting a load line. Approximately 100 bls of fluids were recovered.
- **1RP-4305**: According to the State fo New Mexico C-141 Initial Report submitted by Pyote Water Systems, LLC, the release was discovered on May 17, 2016 and released approximately 1,050 bbls of produced water due to a lightning strike. Approximately 1,050 bbls of fluids were recovered.
- 1RP-4525: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD, the release was due to a leak in the frac tanks used



during facility reconstruction after the lightning strike. An unknown volume of fluids was released, and none were recovered.

- 1RP-4855: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD, the release was discovered on October 18, 2017 and released approximately 50 bbls of produced water and crude oil within the berm due to an unknown cause. None of the fluids were recovered.
- 1RP-4960: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD, the release was discovered on January 31, 2018 and released approximately 20 bbls of produced water due to a failed pump seal. Approximately 10 bbls of free-standing fluids were recovered.
- 1RP-5139: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD, the release was discovered on June 20, 2018 and released approximately 150 bbls fo produced water due to a failure on the wellhead. Approximately 150 bbls of fluids were recovered.
- 1RP-5149: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD, the release was discovered on August 6, 2018 and released approximately 200 bbls of produced water due to a valve malfunction. Approximately 200 bbls of fluids were recovered.
- 1RP-5163: According t State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD, the release was discovered on August 17, 2018 and released approximately 500 bbls of produced water due to a valve malfunction, causing tanks to overflow onto the lined berm. Approximately 500 bbls of fluids were recovered.
- **1RP-5273:** According to the State of New Mexico C-141 Initial Report submitted by Permian Water Solutions, LLC, the release was discovered November 2nd, 2018 and released approximately 20 bbls of crude oil due to an oil skim tank overflowing onto the berm. Approximately 16 bbls of fluids were recovered.

Site Assessments

Tetra Tech conducted site assessment activities from May 7th, 2019, to January 13, 2020, and the details of these activities are thoroughly described in the approved Work Plan (*Revised Work Plan for Permian Water Solutions, LLC., Kaiser State SWD* dated January 27, 2020) included in **Appendix B**. From the dates of May 7th through the 14th, 2019, Tetra Tech installed a total of thirty-two (32) sample points using a combination of a truck-mounted air rotary rig, and a stainless-steel hand auger. At this time, vertical delineation for total BTEX and total TPH was not achieved for the sample points installed within the bermed areas, due to the presence of storage tanks and utilities on the site. Additionally, at the request of NMSLO, the tanks observed on the western berm were removed and Tetra Tech returned to the site on January 13, 2020, and installed 2 more bore holes in the areas of the previous location of the tanks.



The proposed work following the sampling activities included the excavation of 13 different areas corresponding to the sample points (SP-1 through SP-10, SP-17 through SP-21, SP-23 through SP-30, SP-34, SP-36, SP-37, and SP-38) and proposed depths ranging from 0.5-1 ft bgs, to 15 ft bgs. The proposed excavation areas and depths are depicted in **Figure 4** of the **Revised Work Plan** included in **Appendix B**.

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, subsurfaces mines, private domestic water wells, or floodplains located within the specified distances. Additionally, the site is located in a low karst potential area. The NFHL Map and USGS Mapper are shown in **Appendix B** of the **Revised Work Plan**.

Significant Boundaries

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

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 closest water well approximately ½ mile south of the site, and has a reported depth to groundwater fo 101 feet below surface. The groundwater information is shown in **Appendix B** of the **Revised Work Plan**.

Monitoring Well

A monitoring well was installed near the western end fo the pad on August 19, 2021, as part of the monitoring and abatement program requirements mandated by the New Mexico State Land Office (NMSLO). The total depth (TD) of the well was 87.5 ft bgs, and the depth to watertable (DTW) was reported at 71.5 ft bgs. Per the request of the NMSLO, and the New Mexico Oil Conservation Division (NMOCD), a water sample was collected from the well on August 27, 2021, and it was submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA method 8021B, and chloride by EPA method 300.0. Copies of laboratory Copies of laboratory analysis and chain-of-custody documentation are included in **Appendix D**. The water sample collected (MW-1) did not indicated any concentrations of BTEX and TPH, however a chloride concentration of 3,3570 mg/L, and total dissolved solids of 9,590 mg/L were indicated.



Regulatory

A risk-based evaluation was performed for the site following the NMOCD's 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 and for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene) was determined to be nondetect according to the NMSLO's requirements. Based upon the site characterization, the proposed RRAL beyond the top 4.0' of soil, for TPH is 1,000 mg/kg (GRO + DRO + ORO). Additionally, based on the site characterization as well as the NMSLO requirements, the proposed RRAL beyond the top 4.0' of soil, for chlorides is 7,000 mg/kg.

Remediation Activities

Excavation began on site in August 2020, as Permian Water Solutions and Tetra Tech proceeded with the proposed excavation shown in **Figure 4** of the **Revised Work Plan** included in **Appendix B**. The original Contract Substantial Completion Date of November 17, 2020 was not met due to increasing complexity of mobility and excavation, and increasing volume of material to be removed, and a Revised Contract Substantial Completion Date was set for July 12, 2021; a completion date that was also missed due to increasing complexity of project and volume of material that needed to be removed.

Contract SW-330 was then submitted as a two-phase approach to the remediation activities to divide the affected areas in two sections (eastern and western) to facilitate mobility, accessibility, and overall safety of project. The areas included in phase I and phase II are depicted in **Figure 4**. Additionally, bi-weekly meetings were established with representatives from the OCD, NMSLO, Permian Water Solutions, and Tetra Tech, to discuss the state of the project and its progress. The copies of the progress meetings notes are included in **Appendix C**.

<u>Phase I</u>

Tetra Tech conducted confirmation sampling activities starting October 25, 2021, as part of the Kaiser State SWD #9 Phase I completion. From October 25 through December 12, 2021, a total of 124 five-point composite samples were collected for the completion of Phase I including 91 bottom hole samples (BH-1 through BH-91), 33 sidewall samples (SW-1 through SW-33). Additionally, three discrete samples (DS-1, DS-2, and DS-3) were collected for areas showing visual evidence of staining. The selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in **Appendix D**. The results of the sampling are summarized in **Table 1**, sample locations are shown on **Figure 5**.

Referring to **Table 1**, the areas for all the samples collected (BH-1 through BH-91, and SW-1 through SW-33) indicated total BTEX, TPH, and chloride concentrations below RRALs with the exception of the area for sample (SW-8) which indicated a chloride concentration of 9,820 mg/kg, exceeding the maximum of 7,000 mg/kg requested by the NMSLO for chlorides.



However, based on the NMOCD's remediation standard maximum of 10,000 mg/kg for chlorides, the NMSLO approved leaving the area in place. The areas for the three discrete samples collected (DS-1, DS-2, and DS-3) indicated chloride concentrations above RRALs at 1,310 mg/kg at 2 ft bgs, 7,010 mg/kg at 3 ft bgs, and 7,820 mg/kg at 2 ft bgs, respectively. Additionally, the areas of samples (DS-2, and DS-3) indicated total TPH concentrations above RRALs with levels at 1,290 mg/kg, and 1,980 mg/kg, respectively.

The areas for samples (SW-8, DS-1, DS-2, DS-3) were planned to be addressed via a remediation plan extension approved and denoted as Kaiser State SWD #9 Phase 1.5. Following remediation activities, Tetra Tech conducted confirmation sampling by collecting five-point composite bottom hole samples, and five-point composite sidewall samples every 500 square feet within the remediation. A total of 22 bottom hole samples (BH-92 through BH-113), and 4 five-point composite sidewall samples (SW-34 through SW-37) were collected beginning May 6, 2022. Sample locations for the excavation areas corresponding to Phase 1.5 are shown in **Figure 5**. Referring to **Table 1**, all of the areas for the samples collected indicated total BTEX, TPH, and chloride concentrations below RRALs, except for the area for sample (BH-103), that exceeded the limit requested by SLO with an indicated concentration of 7,750 mg/kg at 5 ft bgs.

Phase II

Tetra Tech conducted confirmation sampling activities from July 6, 2022 through December 14, 2022, as part of the Kaiser State SWD #9 Phase II completion. A total of 145 five-point composite samples were collected in this time: 99 bottom hole samples (BH-114 through BH-212), and 46 sidewall samples (SW-38 through SW-83). Additionally, the selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in **Appendix D**. The results of the sampling are summarized in **Table 1**, sample locations are shown on **Figure 6A** and **6B**.

Referring to **Table 1**, the areas for all the bottom hole samples (BH-114 through BH-212) indicated concentrations of total BTEX, total TPH, and chloride below the RRALs. All the areas for sidewall samples (SW-38 through SW-83) indicated concentrations of total BTEX, total TPH, and chloride below the RRALs with the exception of samples (SW-45, SW-46, SW-53, SW-54, SW-56, SW-58, SW-60, SW-68, SW-69, SW-70, SW-71, SW-72, SW-75, SW-76, SW-77, SW-78, SW-79, and SW-83).

The following areas indicated constituents above the criteria, however they were removed from site as part of the expansion of the excavation and do not represent areas of the final surfaces of the excavation. The area corresponding to sample (SW-45) indicated an elevated total TPH concentration of 1,110 mg/kg at a depth of 4.5-8 ft bgs. The area for sample (SW-54) indicated an elevated chloride concentration of 717 mg/kg at 0-4.5 ft bgs. The area corresponding to sample (SW-58) indicated an elevated total TPH concentration of 8,970 mg/kg at 6-8 ft bgs. The area corresponding to sample (SW-78) indicated an elevated chloride concentration of 15,800 mg/kg at 4-10 ft bgs.



The following are the areas where one or more of the constituents was above the criteria and variance from RRALs were requested mostly for safety and conservation reasons:

- Sample (SW-46): This area indicated a chloride concentration of 995 mg/kg at 0-5 ft bgs, the variance request was approved on October 12, 2022. The variance was requested due to the proximity of the excavation to pasture off-lease to the north, and on the basis of the additional horizontal delineation sample (H-1) indicating a chloride concentration of 72.0 mg/kg at depth from surface to 2 ft bgs.
- Samples (SW-53, SW-56, SW-68, and SW-77): These areas indicated chloride concentrations of 2,180 mg/kg, 1,120 mg/kg, 2,210 mg/kg, and 3,710 mg/kg, respectively; the variance request was approved on October 12, 2022. The variance was requested due to the proximity of the excavation to property off-lease to the west, and on the basis of the additional horizontal delineation samples (H-2 through H-6) indicated chloride concentrations ranging from 17.0 mg/kg to 57.3 mg/kg at depths from surface to 2 ft bgs.
- Samples (SW-60, SW-69, SW-70, and SW-71): The areas for samples (SW-60, SW-69, and SW-71) indicated chloride concentrations of 2,390 mg/kg, 6,380 mg/kg, and 1,460 mg/kg, respectively. The areas of samples (SW-69, and SW-70) indicated total TPH concentrations of 1,890 mg/kg, and 1,770 mg/kg, respectively. The variance request was approved on October 12, 2022. The variance was requested to prevent the damaging of the monitor well that could have occurred as part of the extension of the excavation into the omnidirectional 15' exclusion zone previously established for the monitor well.
- Sample (SW-72): This area indicated a total TPH concentration of 436 mg/kg. The
 variance request was approved on November 28, 2022. The variance was requested
 based on the criteria-complying sample previously collected at SW-72 at 0-8 ft bgs,
 and the additional horizontal delineation samples (H-8 and H-9) indicating chloride
 concentrations of 89.9 mg/kg and 672 mg/kg, for the areas corresponding to the
 extension of SW-72.
- Samples (SW-75, SW-76, SW-79, and SW-83): These areas indicated chloride concentrations of 931 mg/kg, 613 mg/kg, and 1,070 mg/kg, respectively. The variance request was approved on January 18, 2023. The variance was requested based on the limited impacts of the soil at depth, indicated by the previously collected data for areas involved in the extension of sidewalls SW-76 and SW-79 (SP-15), and SW-75 and SW-83 (SP_7). The data for sample points (SP-7, SP-15) can be found in Table 1 for the Revised Work Plan included in Appendix B of this report.

The variances were approved by the Oil Conservation Division and the New Mexico State Land Office, and the emails with the requests and approvals are included in **Appendix A.**



Conclusions

Following remediation of the areas of impact, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall samples to ensure the impacted soil was fully removed. Approximately 48,000 cubic yards of impacted soil was removed and properly disposed of, and the area was backfilled with clean to surface grade material. The analytical results indicated all confirmation samples reported below the RRALs for all constituents. The final reclamation and reseeding of the remediated areas will be deferred until site abandonment. Based on this information, it is recommended that the site and the associated release numbers (NPAC0531137785, 1RP-3512, 1RP-3621, 1RP-4305, 1RP-4525, 1RP-4855, 1RP-4960, 1RP-5139, 1RP-5149, 1RP-5163, and 1RP-5273) receive closure. The final C-141 forms are included in **Appendix A**.

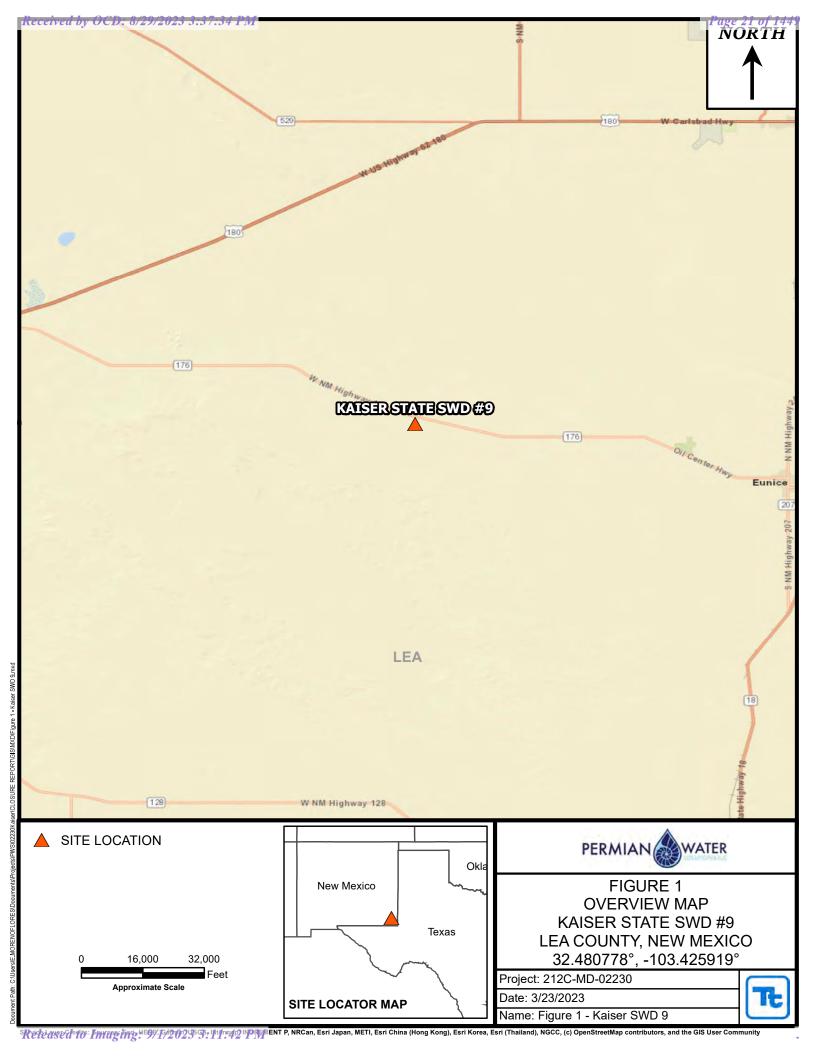
If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

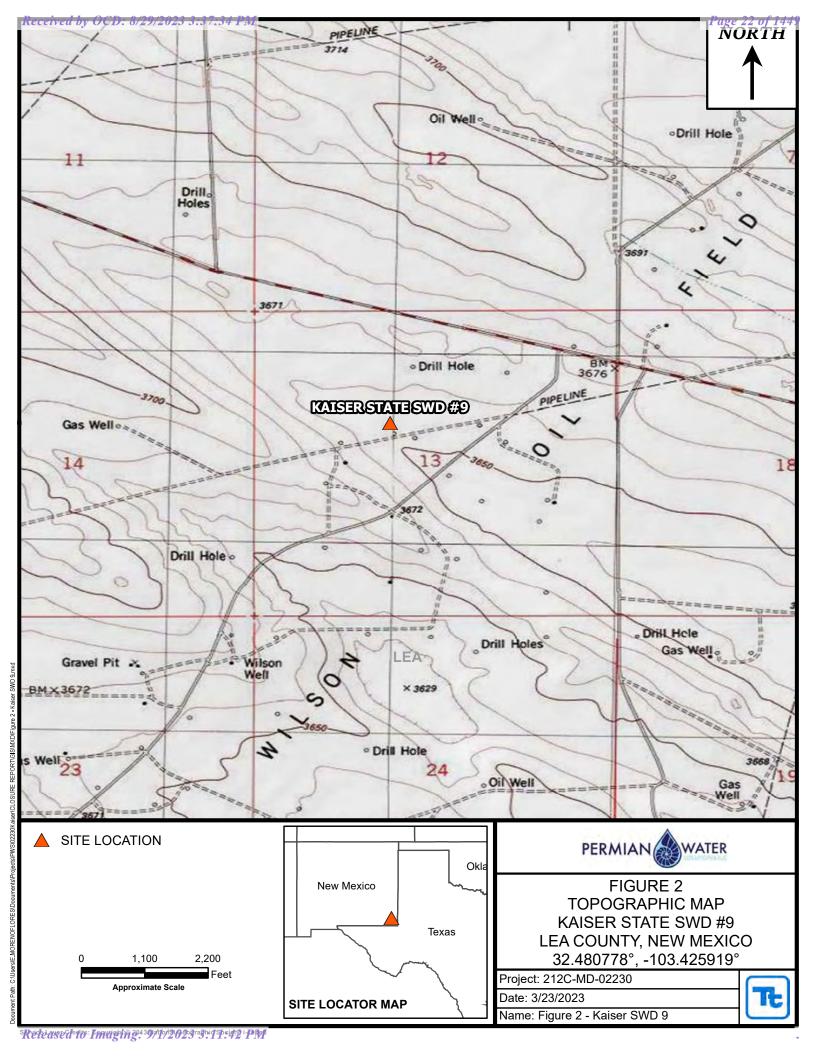
Respectfully submitted, TETRA TECH

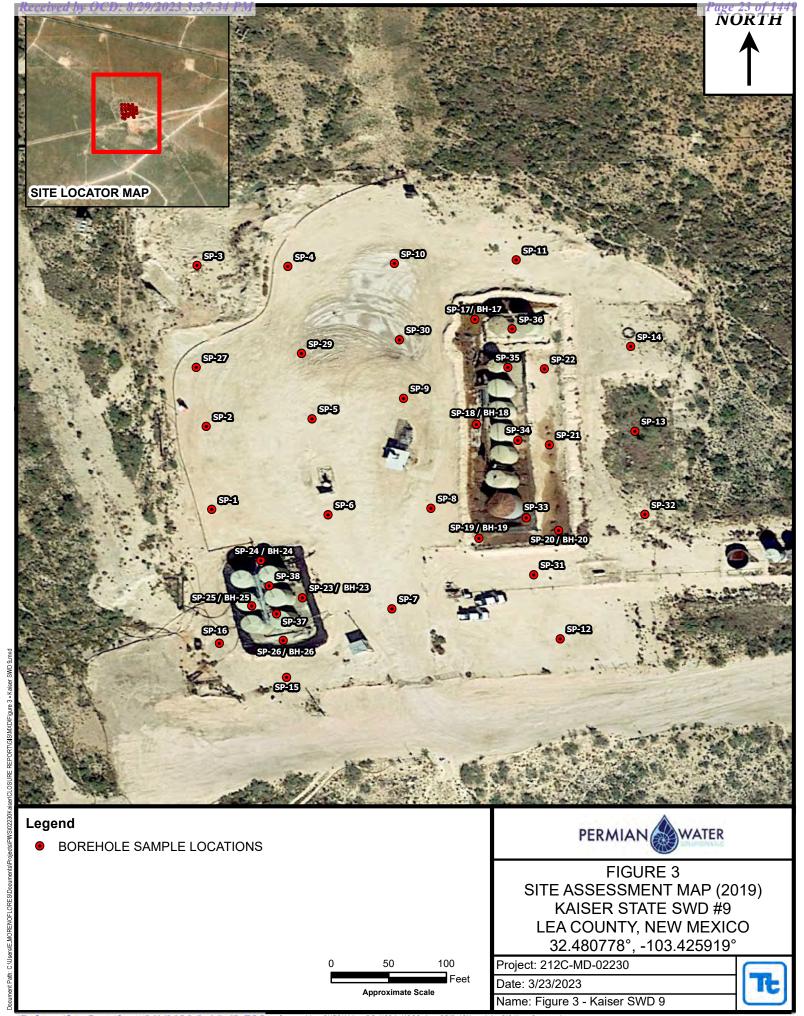
Ezequiel MorenoFlores, Geologist Brittany Long, Project Manager Clair Gonzales, P.G, Senior Project Manager

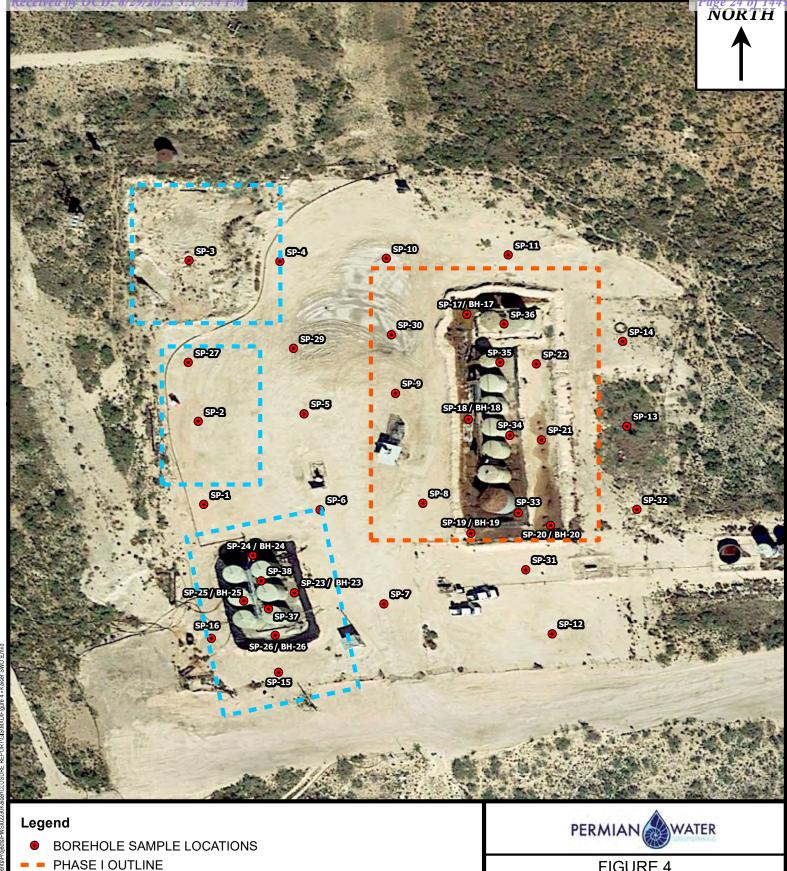


Figures









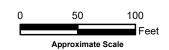
- PHASE II OUTLINE

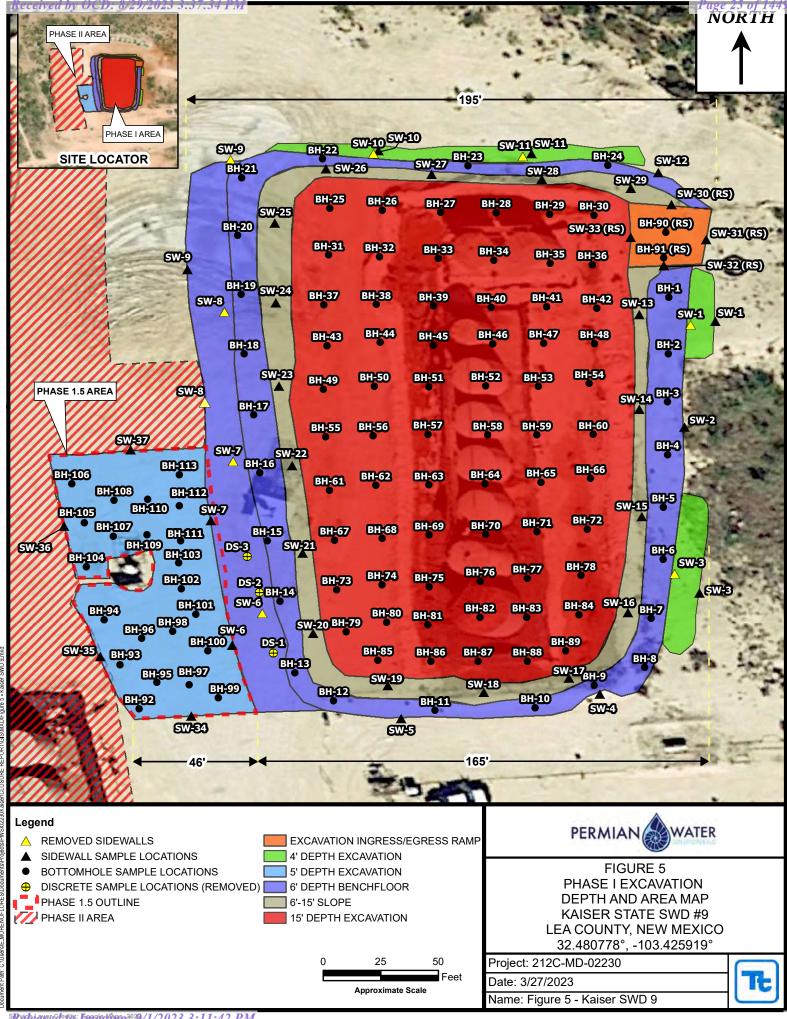
FIGURE 4
PROPOSED PHASE I AND PHASE II
KAISER STATE SWD #9
LEA COUNTY, NEW MEXICO
32.480778°, -103.425919°

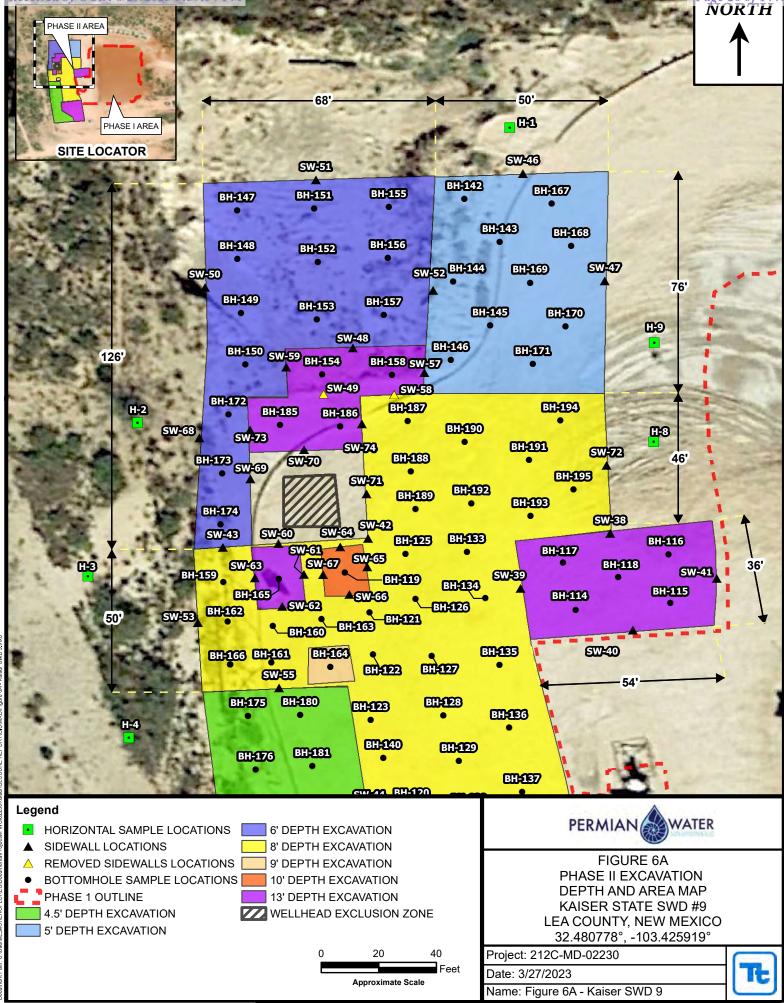
Project: 212C-MD-02230

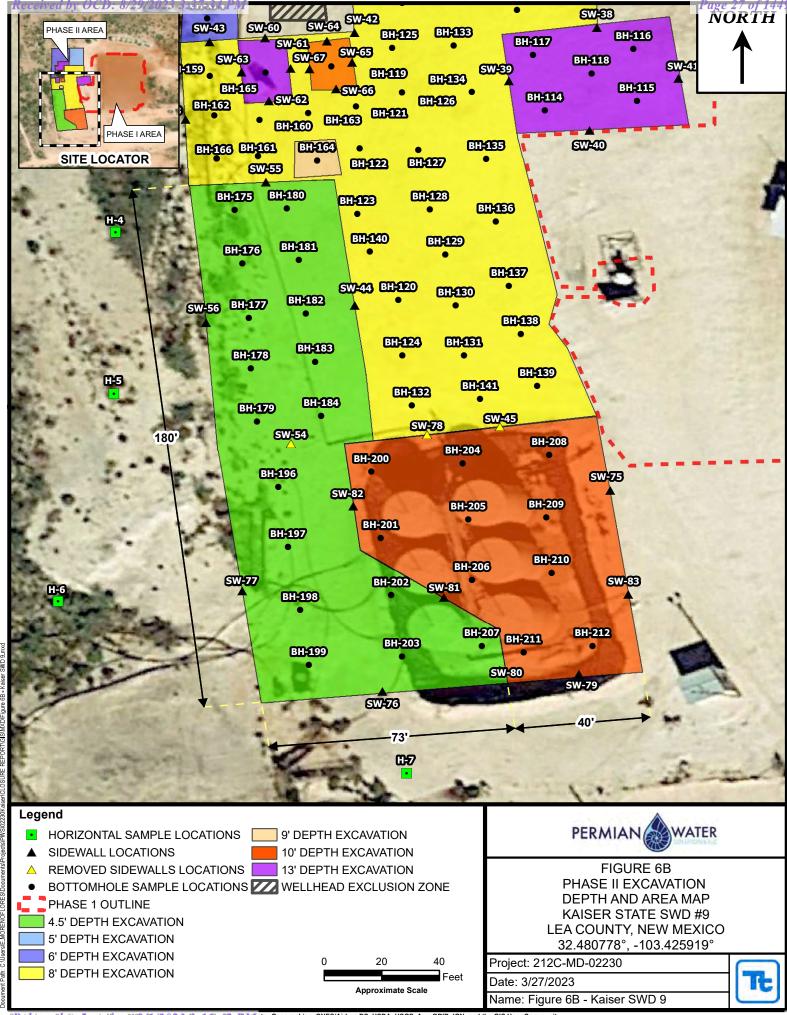
Date: 3/23/2023

Name: Figure 4 - Kaiser SWD 9











Tables

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

0	Ormalia Bat	BEB Sample	Soil	Status		TPH ((mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-1	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,680
BH-2	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	235
BH-3	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	60.7
BH-4	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	48.9
BH-5	10/27/2021	6	Х	-	<49.8	51.5	<49.8	51.5	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	123
BH-6	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	534
BH-7	10/27/2021	6	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	546
BH-8	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,990
BH-9	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,980
BH-10	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,500
BH-11	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,330
BH-12	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,170
BH-13	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,370
BH-14	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	4,450
BH-15	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	4,220
BH-16	10/27/2021	6	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	3,560
BH-17	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,350
BH-18	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,390
BH-19	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,060
BH-20	10/27/2021	6	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	449
BH-21	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	169
BH-22	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,220
BH-23	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	141
BH-24	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	107
BH-25	10/27/2021	6	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	447
BH-26	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,450
BH-27	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	372
BH-28	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	290
BH-29	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	139
BH-30	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	156
BH-31	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	689
BH-32	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	833

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

Sample Depth Depth In-Situ Nemowed GRO DRO ORO Total Immyley Imm	0	Committee Day	BEB Sample	Soil	Status		TPH ((mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
BH-34 10/27/2021 15 X - <49.9	•	·	Depth (ft)	In-Situ			DRO	ORO			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BH-36 10/27/2021 15 X - <0.0 <50.0 <50.0 <50.0 <50.0 <50.0 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 <0.00400 <0.0033 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.004000 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.004000 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.004000 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.004000 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.		10/27/2021	15	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	504
BH-36 10/27/2021 15 X - 449.8 449.8 449.8 449.9 0.00201 0.00201 0.00201 0.00402 2.00402 2.86 BH-37 10/27/2021 15 X - 449.9 449.9 449.9 0.00201 0.00201 0.00201 0.00201 0.00402 0.00402 2.26 BH-38 10/27/2021 15 X - 449.9 0.0020 0.00200 0.00		10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	140
BH-37 10/27/2021 15 X - <48.9 <48.9 <48.9 <48.9 <48.9 <48.9 <0.00201 <0.00201 <0.00201 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00403 BH-38 10/27/2021 15 X - <48.9 87.2 <49.9 87.2 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.004000 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.004000 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.004000 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.004000 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.004000 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.004000 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.0040	BH-35	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	333
BH-38 10/27/2021 15 X - <49.9 87.2 <49.9 87.2 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 <0.00400 <0.00400 <0.0088 BH-39 10/27/2021 15 X - <49.9 <49.9 <49.9 <49.9 <49.9 <0.00200 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 <0.00400 <0.33.00 BH-40 10/27/2021 15 X - <49.8 <49.8 <49.8 <49.8 <49.8 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 <0.00400 <1.33.00 BH-41 10/27/2021 15 X - <49.9 <49.9 <49.9 <49.9 <49.9 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0	BH-36	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	286
BH-39	BH-37	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	4,260
BH-40	BH-38	10/27/2021	15	Х	-	<49.9	87.2	<49.9	87.2	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,030
BH-41 10/27/2021 15 X - <49.9	BH-39	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	3,300
BH-42	BH-40	10/27/2021	15	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,190
BH-43	BH-41	10/27/2021	15	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	0.00222	<0.00399	<0.00399	702
BH-44 10/27/2021 15 X - <50.0	BH-42	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	461
BH-45 10/27/2021 15 X - <49.8 <49.8 <49.8 <49.8 <0.00200 <0.00200 <0.00200 <0.00399 <0.00399 ≥ 284 BH-46 10/27/2021 15 X - <50.0 <50.0 <50.0 <50.0 <50.0 <0.00200 <0.00200 <0.00200 <0.00399 <0.00399 ≥ 2.560 BH-47 10/27/2021 15 X - <49.8 <49.8 <49.8 <49.8 <49.8 <0.00200 <0.00200 <0.00200 <0.00200 <0.00399 <0.00399 ≥ 2.560 BH-48 10/27/2021 15 X - <49.8 <49.8 <49.8 <49.8 <0.00200 <0.00200 <0.00200 <0.00200 <0.00399 <0.00399 ≥ 2.560 BH-49 10/27/2021 15 X - <49.9 <49.9 <49.9 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00399 ≥ 0.00398 ≥ 0.00398 ≥ 0.00398 ≥ 0.00398 ≥ 0.00398 ≥ 0.00398 ≥ 0.00398 ≥ 0.	BH-43	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	2,440
BH-46 10/27/2021 15 X -	BH-44	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	465
BH-47 10/27/2021 15 X - <49.8	BH-45	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	284
BH-48 10/27/2021 15 X - <50.0	BH-46	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,560
BH-49 10/27/2021 15 X - <49.9	BH-47	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	122
BH-50 10/27/2021 15 X - <49.9	BH-48	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,050
BH-51 10/27/2021 15 X -	BH-49	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	472
BH-52 10/27/2021 15 X - <49.9	BH-50	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	0.0214	0.0176	0.00625	0.0581	0.103	1,330
BH-53 10/27/2021 15 X - <49.9	BH-51	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,750
BH-54 10/27/2021 15 X - <49.9	BH-52	10/27/2021	15	Х	_	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,410
BH-55 10/27/2021 15 X - <50.0	BH-53	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	960
BH-56 10/27/2021 15 X - <49.8	BH-54	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	508
BH-57 10/27/2021 15 X - <49.9	BH-55	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,680
BH-58 10/27/2021 15 X - <49.9	BH-56	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	2,450
BH-59 10/27/2021 15 X - <49.9	BH-57	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,190
BH-60 10/27/2021 15 X - <49.8	BH-58	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	4,190
BH-61 10/27/2021 15 X - <49.9	BH-59	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,760
BH-62 10/27/2021 15 X - <49.9	BH-60	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,150
BH-63 10/27/2021 15 X - <50.0 <50.0 <50.0 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 1,000	BH-61	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,660
	BH-62	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,480
BH-64 10/27/2021 15 X - <50.0 <50.0 <50.0 <50.0 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 2.760	BH-63	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,000
	BH-64	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,760

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

Sample ID	Sample Date	BEB Sample	Soil	Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
·		Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-65	10/27/2021	15	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	823
BH-66	10/27/2021	15	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	522
BH-67	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	854
BH-68	10/28/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,930
BH-69	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	632
BH-70	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	921
BH-71	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	0.00378	<0.00401	<0.00401	452
BH-72	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	692
BH-73	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	2,790
BH-74	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,620
BH-75	10/28/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	982
BH-76	10/28/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,190
BH-77	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,430
BH-78	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	426
BH-79	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	561
BH-80	10/28/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	609
BH-81	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	871
BH-82	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	309
BH-83	10/28/2021	15	Х	_	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	0.00427	<0.00400	0.00427	775
BH-84	10/28/2021	15	Х	_	<50.0	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	710
BH-85	10/28/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	656
BH-86	10/28/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,090
BH-87	10/28/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,500
BH-88	10/28/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,390
BH-89	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	2,630
BH-90	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	107
BH-91	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,100
BH-92	5/6/2022	5	Х		<50.0	346	176	522	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	4,070
BH-93	5/6/2022	5	Х	-	<49.9	62.5	82.6	145	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	976
BH-94	5/6/2022	5	Х	-	<50.0	247	165	412	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,770
BH-95	5/6/2022	5	Х	-	<50.0	113	131	244	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,780
BH-96	5/6/2022	5	Х	-	<49.9	55.3	111	166	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,350
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Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

		BEB Sample	Soil	Status		TPH ((mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-97	5/6/2022	5	Х	-	<49.9	97.6	140	238	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	5,290
BH-98	5/6/2022	5	Х	-	<50.0	<50.0	102	102	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,090
BH-99	5/6/2022	5	Х	-	<50.0	<50.0	73.6	73.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,860
BH-100	5/6/2022	5	X	-	<49.9	<49.9	56.8	56.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	5,050
BH-101	5/6/2022	5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,460
BH-102	5/6/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,550
BH-103	5/6/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	7,750
BH-104	5/6/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,010
BH-105	5/6/2022	5	Х	-	<49.9	54.4	122	176	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	954
BH-106*	7/6/2022	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	21.0
BH-107	5/6/2022	5	Х	-	<50.0	169	169	338	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,530
BH-108*	7/6/2022	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	71.9
BH-109	5/6/2022	5	Х	-	<49.9	<49.9	86.4	86.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	946
BH-110*	8/18/2022	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	388
BH-111	5/6/2022	5	Х	-	<49.9	<49.9	64.3	64.3	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	3,640
BH-112	5/6/2022	5	Х	-	362	<50.0	<50.0	362	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	374
BH-113	5/6/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	942
BH-114	7/6/2022	10	Х	-	<50.0	99.5	<50.0	99.5	<0.0202	<0.0202	<0.0202	<0.0404	<0.0404	266
BH-115	7/6/2022	10	Х	-	<49.9	86.1	<49.9	86.1	0.0439	<0.0201	<0.0201	<0.0402	0.0439	47.4
BH-116	7/6/2022	10	Х	-	<49.9	196	<49.9	196	0.0597	<0.0202	<0.0202	<0.0403	0.0597	76.8
BH-117	7/6/2022	10	Х	-	<50.0	644	98.9	743	0.0553	<0.0199	<0.0199	<0.0398	0.0553	114
BH-118*	7/26/2022	13	Х	-	<49.9	247	<49.9	247	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	263
BH-119*	7/26/2022	10	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	382
BH-120*	8/18/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	578
BH-121	7/6/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	5,280
BH-122	7/6/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,280
BH-123	7/6/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	201
BH-124*	8/18/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	298
BH-125	7/6/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,800
BH-126	7/7/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	4,170
BH-127	7/7/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	472
BH-128	7/7/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	582

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

		BEB Sample	Soil	Status		TPH ((mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-129	7/7/2022	8	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	926
BH-130	7/7/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	675
BH-131	7/7/2022	8	Х	-	<49.9	63.5	<49.9	63.5	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	85.5
BH-132*	8/18/2022	8	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	325
BH-133	7/6/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	634
BH-134	7/7/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,300
BH-135	7/7/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	722
BH-136	7/7/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	490
BH-137	7/7/2022	8	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	167
BH-138	7/7/2022	8	Х	-	<50.0	55.9	<50.0	55.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	512
BH-139	7/7/2022	8	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,390
BH-140	7/6/2022	8	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	970
BH-141	7/7/2022	8	Х	-	<49.9	61.0	<49.9	61.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	2,410
BH-142	7/12/2022	5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	167
BH-143	7/12/2022	5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	984
BH-144	7/12/2022	5	Х	-	<50.0	226	<50.0	226	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	501
BH-145	7/12/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	903
BH-146	7/12/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	751
BH-147	7/12/2022	6	X	-	<50.0	478	59.0	537	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	22.7
BH-148	7/12/2022	6	Х	-	<49.9	138	52.3	190	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	6.69
BH-149	7/7/2022	6	X	-	<49.9	64.6	<49.9	64.6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	7.07
BH-150	7/6/2022	6	Х	-	<50.0	83.6	<50.0	83.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	10.9
BH-151	7/7/2022	6	Х	-	<50.0	126	<50.0	126	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.9
BH-152	7/12/2022	6	Х	-	<50.0	74.9	<50.0	74.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.0
BH-153	7/12/2022	6	Х	-	<49.9	117	<49.9	117	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	22.7
BH-154*	8/18/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	88.9
BH-155	7/12/2022	6	Х	-	<50.0	111	<50.0	111	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	20.8
BH-156	7/12/2022	6	Х	-	<50.0	94.0	<50.0	94.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.3
BH-157	7/12/2022	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	34.4
BH-158*	7/26/2022	8	Х	_	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	99.8
BH-159*	8/18/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,010
BH-160	7/26/2022	8	Х	-	<50.0	133	83.6	217	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	563

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

Sample ID	Sample Date	BEB Sample	Soil	Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
•	•	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-161	7/26/2022	8	X	-	<49.9	147	71.4	218	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	515
BH-162*	8/18/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	892
BH-163	7/26/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	107
BH-164*	8/18/2022	9	Х	-	<49.9	92.4	<49.9	92.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,680
BH-165	8/18/2022	8	Х	-	<49.9	64.6	<49.9	64.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	613
BH-166	8/18/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	233
BH-167	8/18/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	404
BH-168	8/18/2022	5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	354
BH-169	8/18/2022	5	Х	-	<50.0	80.5	<50.0	80.5	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	382
BH-170	8/18/2022	5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	826
BH-171	8/18/2022	5	Х	-	<50.0	75.0	<50.0	75.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	180
BH-172	8/18/2022	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	253
BH-173	8/18/2022	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	329
BH-174	8/18/2022	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00196	<0.00196	<0.00196	<0.00393	<0.00393	131
BH-175	8/18/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	374
BH-176	8/18/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	554
BH-177	8/18/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,360
BH-178	8/18/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	632
BH-179	8/18/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,090
BH-180	8/18/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,540
BH-181	8/18/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	1,560

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

		BEB Sample	Soil	Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-182	8/18/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	806
BH-183	8/18/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,050
BH-184	8/18/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	898
BH-185*	9/19/2022	13	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	591
BH-186*	9/19/2022	13	Х	-	<50.0	84.3	<50.0	84.3	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	320
BH-187	8/18/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	816
BH-188	8/18/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,360
BH-189	8/18/2022	4.5	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	181
BH-190	8/19/2022	4.5	Х	-	<49.9	234	<49.9	234	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	686
BH-191*	9/19/2022	8	Х	-	<50.0	94.3	<50.0	94.3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	267
BH-192*	9/19/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	249
BH-193*	9/19/2022	8	Х	-	<50.0	64.0	<50.0	64.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	66.4
BH-194	9/19/2022	8	Х	-	<49.9	817	169	986	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	55.8
BH-195	9/19/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	34.5
BH-196	9/19/2022	4.5	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,110
BH-197	9/19/2022	4.5	Х	-	<50.0	96.5	<50.0	96.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	1,710
BH-198	9/19/2022	4.5	Х	_	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	4,900
BH-199	9/19/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	528
BH-200*	11/7/2022	10	Х	-	<50.0	74.9	<50.0	74.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,280
BH-201*	11/7/2022	10	Х	-	<50.0	74.3	<50.0	74.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1300
BH-202	9/19/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,130
BH-203	9/19/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	330
BH-204*	11/7/2022	10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,010
BH-205*	11/7/2022	10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,480
BH-206*	11/7/2022	10	Х	_	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,290
BH-207	9/19/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	4,000
BH-208	11/7/2022	10	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6,190
BH-209	11/7/2022	10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,470
BH-210*	12/14/2022	11	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	699
BH-211	11/7/2022	10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,230
BH-212	11/7/2022	10	Х	-	Α	228	<50.0	228	<0.00199	<0.00199	<0.00199	0.0395	0.0395	2,970
SW-1*	12/23/2021	0-4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	287

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

Sample ID	Sample Date	BEB Sample	Soil	Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
•		Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SW-2	10/25/2021	0-6	Х	-	<49.9	74.3	<49.9	74.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	43.4
SW-3*	12/23/2021	0-4	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	341
SW-4	10/25/2021	0-6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,060
SW-5	10/25/2021	0-6	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	2,250
SW-6*	12/23/2021	0-4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,800
SW-7*	12/23/2021	0-4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,400
SW-8*	12/23/2021	0-4	-	Х	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	9,820
SW-9*	12/23/2021	0-4	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	380
SW-10*	12/23/2021	0-4	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	354
SW-11*	12/23/2021	0-4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	348
SW-12	10/26/2021	10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,080
SW-13	10/26/2021	15	Х	-	<50.0	96.1	<50.0	96.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,840
SW-14	10/26/2021	15	Х	-	<49.8	56.3	<49.8	56.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	185
SW-15	10/26/2021	15	Х	_	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	209
SW-16	10/26/2021	15	Х	_	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,170
SW-17	10/26/2021	15	Х	-	<50.0	55.1	<50.0	55.1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,270
SW-18	10/26/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	826
SW-19	10/26/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	1,000
SW-20	10/26/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,150
SW-21	10/26/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5,770
SW-22	10/26/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	9,240
SW-23	10/26/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,070
SW-24	10/26/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,240
SW-25	10/26/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	5,920
SW-26	10/26/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	447
SW-27	10/26/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	0.00206	0.00205	<0.00201	<0.00402	0.00411	9,970

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

Sample ID	Sample Date	BEB Sample	Soil	Status		TPH (mg/kg			Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
•	· ·	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SW-28	10/26/2021	15	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	3,280
SW-29	10/26/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	416
SW-30 (Ramp)	10/28/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	169
SW-31 (Ramp)	10/28/2021	4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	109
SW-32 (Ramp)	10/28/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	582
SW-33 (Ramp)	10/28/2021	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	831
SW-34*	7/6/2022	0-6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	20.4
SW-35*	7/6/2022	0-6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	244
SW-36*	7/6/2022	0-6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	56.8
SW-37*	7/6/2022	0-6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.7
SW-38	8/18/2022	4.5-13	Х	-	<49.9	151	<49.9	151	<0.0404	<0.0404	<0.0404	<0.0808	<0.0808	448
SW-39	7/29/2022	0-13	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	111
SW-40	7/29/2022	0-13	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	52.3
SW-41	8/18/2022	6-13	Х	-	<49.9	<49.9	<49.9	<49.9	<0.0403	<0.0403	<0.0403	<0.0806	<0.0806	707
SW-42	8/18/2022	4.5-8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	107
SW-43*	8/18/2022	6-8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	951
SW-44	8/18/2022	4.5-8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	955
SW-45	8/18/2022	4.5-8	-	Х	79.7	1,030	<50.0	1,110	<0.00201	<0.00201	0.0108	0.0460	0.0568	679
SW-46 ★	8/18/2022	0-5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	995
SW-47	8/18/2022	0-5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	558
SW-48	8/18/2022	6-8	Х	-	<50.0	117	<50.0	117	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	70.5
SW-49	8/18/2022	4.5-6	-	Х	<50.0	264	<50.0	264	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	975

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

			BEB Sample	·		(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride		
Sample ID		Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SW-50*		7/26/2022	0-6	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	52.0
SW-51*		7/26/2022	0-6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	201
SW-52		7/12/2022	0-6	Х	-	<49.8	81.4	<49.8	81.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	386
SW-53	*	8/18/2022	0-8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,180
SW-54		8/18/2022	0-4.5	-	Х	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	717
SW-55		8/18/2022	4.5-8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00197	<0.00197	<0.00197	<0.00394	<0.00394	1,730
SW-56	*	8/18/2022	0-4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,120
SW-57		8/18/2022	6-8	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	65.5
SW-58		8/18/2022	6-8	-	Х	<49.8	7,350	1,620	8,970	<0.0100	<0.0100	<0.0100	<0.0200	<0.0200	202
SW-59		8/18/2022	6-8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	40.5
SW-60	*	8/18/2022	0-13	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,390
SW-61		8/18/2022	8-13	Х	-	<50.0	76.1	<50.0	76.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,730
SW-62*		9/19/2022	8-13	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	330
SW-63		8/18/2022	8-13	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	561
SW-64		8/18/2022	8-10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	481
SW-65		8/18/2022	8-10	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	765
SW-66		8/18/2022	8-10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	275
SW-67		8/18/2022	8-10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	215
SW-68	*	8/18/2022	0-6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	2,210
SW-69	*	8/18/2022	0-6	Х	-	<50.0	1,890	<50.0	1,890	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6,380
SW-70	*	8/18/2022	0-4.5	Х	-	<49.8	1,770	<49.8	1,770	<0.0400	<0.0400	<0.0400	<0.0800	<0.0800	352
SW-71	*	8/18/2022	0-4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,460
SW-72*	*	9/19/2022	0-8	Х	-	<49.9	348	87.6	436	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	70.1
SW-73		9/19/2022	6-13	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	394
SW-74		9/19/2022	8-13	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,800
SW-75*	*	12/14/2022	4-10	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,390
SW-76*	*	12/14/2022	0-4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	931
SW-77	*	9/20/2022	0-4.5	Х	-	<49.9	81.7	<49.9	81.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,710
SW-78*		11/7/2022	4-10	-	Х	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	15,800
SW-79*	*	12/14/2022	0-4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	613
SW-80		11/7/2022	4.5-10	Х	-	<50.0	263	<50.0	263	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	8,690
SW-81		11/7/2022	4.5-10	Х	-	<49.9	192	<49.9	192	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	8,120
							· · · · · · · · · · · · · · · · · · ·								

Table 1 Permian Water Solutions Kaiser SWD Phase I and II Confirmation Sampling Lea County, New Mexico

Sample ID		Sample Date	BEB Sample	Soil	Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	'	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SW-82		11/7/2022	4.5-10	Х	-	<49.8	216	<49.8	216	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	9,100
SW-83*	*	12/14/2022	0-4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,070
DS-1		10/25/2021	2	-	Х	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	1,310
DS-2		10/25/2021	3	-	Х	1290	1,290	1290	1,290	<0.00200	<0.00200	<0.00200	<0.00401	<0.00399	7,010
DS-3		10/25/2021	2	-	Х	<49.9	1,980	<250	1,980	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	7,820
H-1		9/19/2022	0-2	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	72.0
H-2		9/19/2022	0-2	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	20.1
H-3		9/19/2022	0-2	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	57.3
H-4		9/19/2022	0-2	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	27.5
H-5		9/19/2022	0-2	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	17.0
H-6		9/19/2022	0-2	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	23.1
H-7		9/19/2022	0-2	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	26.7
H-8		11/7/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	90
H-9		11/7/2022	5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	672

Exceeds NMOCD RRALs for top 4.0'

^{*} Additional entries for samples were removed from the analysis table per the NMOCD request. However, all laboratory data is included in Appendix C.

^{*} Samples for the areas where a variance to leave the remaining concentrations in place was approved by the NMOCD and NMSLO.



Photographic Documentation



Photo: 1

Description:

Overview of the surface of the 15'-deep floor of the central portion of the excavation for Phase I.

Orientation:

Looking southeast.



Photo: 2

Description:

View of the surface of the 15'-deep floor of the central portion of the excavation for Phase I.

Orientation:

Looking west.



1



Photo: 3

Description:

View of the white flags used to assist with sample distribution on the central portion of the excavation for Phase I.

Orientation:

Looking south.



Photo: 4

Description:

Overview of surface of the extended excavations corresponding to sample SW-1, as part of the Phase I excavations.

Orientation:

Looking south.



2



Photo: 5

Description:

View of the surface of the extended excavations corresponding to sample SW-3, as part of the Phase I excavations.

Orientation:

Looking southeast.



Photo: 6

Description:

View of the southern floor of the excavation as part of Phase 1.5.

Orientation:

Looking north.



3



Photo: 7

Description:

View of the central portion of the excavation for Phase 1.5.

Orientation:

Looking west.



Photo: 8

Description:

View of the northern portion of the excavation for Phase 1.5, as well as the backfill (red, left) material used for Phase I.

Orientation:

Looking south.



/



Photo: 9

Description:

View of the excavation area of Phase II observed just West of the Phase 1.5 area.

Orientation:

Looking north.



Photo: 10

Description:

View of the central portion of Phase II annexed to Phase 1.5.

Orientation:

Looking northeast.



5



Photo: 11

Description:

View of the excavated area corresponding to sample BH-165, located in the central portion of the Phase II area.

Orientation:

Looking west.



Photo: 12

Description:

View of the southern portion of the Phase II area.

Orientation:

Looking south.



6



Photo: 13

Description:

View of the southern portion of the Phase II area, and backfilled areas in the background.

Orientation:

Looking northwest.



Photo: 14

Description:

View of the southern portion of the Phase II area, the final area to be backfilled.

Orientation:

Looking north.



7



Appendix A

C-141 Forms and Variance Approval Emails

INCIDENT/SPILL DETAILS

INCIDENT ID: nPAC0531137785

No. ON EXCEL "INCIDENTS & SPILLS SEARCH - NMOCD — SEC 13-T21S-R34E LEA COUNTY":

<u>12</u>

CD	Permitting
UU	remuung

- Home
- Searches
- Incidents
- Incident Details

NPAC0531137785 2005 MINOR A SWS @ 30-025-02538

General	Incident	Information	

Site Name:

Well: [30-025-02538] KAISER STATE SWD #009

Facility:

Operator: [220351] P & W RESOURCES LLC

Status: Closure Not Approved
Type: Produced Water Release

District: Hobbs Severity: Minor Surface Owner: County: Lea (25)

Incident Location: F-13-21S-34E 1980 FNL 1980 FWL

Lat/Long: 32.4808578,-103.4256592 NAD83

Directions:

Notes

Source of Referral: Industry Rep
Resulted In Fire:
Endangered Public Health:
Fresh Water Contamination:
Action / Escalation: General Information
Will or Has Reached Watercourse:
Property Or Environmental Damage:

0 -	-4-	-4	D .	4 - 3	
Co	nτa	CT	De	etai	IIS

Contact Name:

Contact Title:

Event Dates

Date of Discovery: 09/11/2005 Extension Date: 11/15/2018 Initial C-141 Received:

Characterization Report Received:

Remediation Plan Received:

Closure Report Received:

OCD Notified of Release:

Cancelled Date:

Characterization Report Approved:

Remediation Plan Approved:

Remediation Due:

Closure Report Approved:

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incidents Materials

Cause	Source	Material		Vol	Units			
Caust	Source	Matchai	Unk.	Released	Recovered	Lost	Cints	
Equipment Failure	Pipeline (Any)	Produced Water		10	9	1	BBL	

Incident Events

Date	Detail	
11/07/2005	C-141: "Line broke. Vacuumed up 9 bbls water. 150' of pasture land. Vacuumed up 9 bbls	

Orders No Orders Found

Quick Links

- General Incident Information
- <u>Materials</u>
- Events
- Orders

Associated Images

- Incident Files (0)
- Well Files (38)

New Searches

- New Facility Search ♥
- New Incident Search ♥
- New Operator Search ♥
- New Pit Search ♥
- New Spill Search ♥
- New Tank Search
- New Well Search ♥

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012 1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220 Received by OCD: 8/29/2023 3:37:34 PM state of New Mexico
Page 6 Oil Conservation Division

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

	Page 33 01 1449
Incident ID	NPAC0531137785
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

✓ Photographs of the remediated site prior to back must be notified 2 days prior to liner inspection)	kfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
■ Laboratory analyses of final sampling (Note: ap	propriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report an may endanger public health or the environment. The should their operations have failed to adequately inventuman health or the environment. In addition, OCD compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surface	ue and complete to the best of my knowledge and understand that pursuant to OCD rules d/or file certain release notifications and perform corrective actions for releases which acceptance of a C-141 report by the OCD does not relieve the operator of liability estigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for s and/or regulations. The responsible party acknowledges they must substantially area to the conditions that existed prior to the release or their final land use in cation to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date: 5/5/2> Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the res remediate contamination that poses a threat to ground party of compliance with any other federal, state, or	sponsible party of liability should their operations have failed to adequately investigate and water, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:
_	

Form C-141

Revised August 8, 2011

<u>District I</u> 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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

			Rele	ease Notific	ation	and Co	rrective A	ction		
						OPERA	ΓOR		X Initia	al Report
	mpany 🏲	yote Water	System	ıs, LLC			y Burton Ope	eration	is Mana	ger for NM
Address		Illinois STI	E 950 N	Iidland TX		Telephone N	10		<u>8~4917</u>	
Facility Nar	ne				I	Facility Typ	e Production	n Wat	<u>er</u>	
Surface Ow	ner Pyote	e Water Sy	stems,L	LC Mineral O	wner		Pyote		API No	. 30~025~02538
				LOCA	TION	OF REI	LEASE			
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from the	East/W	Vest Line	County
	13		2.4	10 ft	N/S	3				LEA COUNTY
- F	13	25	1 <u>34</u>	titude 32.4808	355153	34055aitud	le103.425	63076	5566	
			La			_ 0		<u>,030</u> 70	13300	
Type of Rele	ase 20 bl	ols product	tion wa		UKE	OF RELI Volume of		1e	Volume R	Recovered 20 bbls
Source of Re			1011 wa	ICI			lour of Occurrence			Hour of Discovery 1/14/15
Was Immedia						If YES, To				
			Yes	No Not Re	quired			Jerry	Burton N	M OM
By Whom?	•					Date and F				
Was a Water	course Read	ched?	Yes 🖸	No No		If YES, Vo	lume Impacting the	he Wate	rcourse.	
If a Watercourse was Impacted, Describe Fully.*										
none	none									
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*		harrana inat	mustad to do on	on ole 1a	ad Itian	social as well at the gion in
ticket area		the sumps~	/ ne rane	ea to suck it out	wnen ti	ney are inst	ructea to ao on	each ic	baa. It is p	osted as well, at the sign in
iickei area a	a180									
D '1 4	A CC . 1	1.61		* The clean t	110 01100	ON.				
remediation	a Affected n took pla	ce on 1/16/	15, clear	ned up the area v	with ba	ckhoe, broi	ight in caliche a	and the	remedita	tion is done. Load lines 3&4
been shut d	lown for a	ibout 4 mont	hs, the a	ccess water is fr	om all t	he rain bac	k n September a	and Oc	tober,thar	n the snow we have had since
than. Has n	ot been d	ry enough to	work on	those lines. DU	JE TO N	MOTHER NA	ATURE we have	e had a	company	go out several times to do the
for loads li	1e 3 & 4	information gi	ven above	is true and compl	ete to th	e hest of my	knowledge and u	nderstan	d that nurs	suant to NMOCD rules and
										eases which may endanger
•	•	-	-				•			eve the operator of liability
										, surface water, human health
		addition, NMC ws and/or regu		otance of a C-141 i	report do	es not reliev	e the operator of r	responsi	bility for co	ompliance with any other
rederar, state,	, or local la	ws and/or regu	nations.				OIL CONS	SERV	ATION	DIVISION
	i P	,					<u>OIL COIN</u>		111011	<u>DIVIDIOI</u>
Signature:	/emytru	The _					- m (/		000	
Printed Name	Jerry F	Burton			A	Approved by	Environmental Sp	pecialist		
Title: Open	rations N	Manager fo	r NM		A	Approval Dat	e : 1/29/15	I	Expiration 1	Date: 3/29/15
E '1 4 1 1	audra	a@pyotew	atersyst	ems com		n 11.1	`			
		<u>acepyoton</u>			— (Conditions of	Approval:			Attached
Date: 1~23~	15			: 432~448~49	917	Site sam	ples required.	. Delir	niate	1RP-3512
Attach Addi	tional She	ets If Necess	ary				ediate as per l			
						guides.	23 POT			294873
						•	Snol C 141 kg	, 2		nTO1502927174
						Subillit l	inal C-141 by	y J		

Received by OCD: 8/29/2023 3:37:34 PM tate of New Mexico
Page 6 Oil Conservation Division

Closure

Closure Report Attachment Checklist: Each of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	ed in 19.15.29.11 NMAC
Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	ckfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
✓ Laboratory analyses of final sampling (Note: a	appropriate ODC District office must be notified 2 days prior to final sampling)
	ppropriate of a first state of the first state of t
Description of remediation activities	
may endanger public health or the environment. The should their operations have failed to adequately involved human health or the environment. In addition, OCE compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surface accordance with 19.15.29.13 NMAC including notification.	nd/or file certain release notifications and perform corrective actions for releases which he acceptance of a C-141 report by the OCD does not relieve the operator of liability vestigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for we and/or regulations. The responsible party acknowledges they must substantially be area to the conditions that existed prior to the release or their final land use in fication to the OCD when reclamation and re-vegetation are complete. Title: Project Manager
	Title. Troject Wanager
Signature: Signature:	Date: 5/5/23
email: dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re remediate contamination that poses a threat to groun party of compliance with any other federal, state, or	esponsible party of liability should their operations have failed to adequately investigate and dwater, surface water, human health, or the environment nor does not relieve the responsible r local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

nKJ1512041707

Release Notificati	on and C	orrective Ac	ction			
OPER.	ATOR	x	ex Initial Rep	ort 🔲 Final Report		
Name of Company PYOTE WATER SYSTEMS, LLC	Contact	Jerry Burto	n NM Operati	ons Manager		
Address 400 W. Illinois Ste 900	Telephor	e No. 432.448	3.4917 or 432.	448.5323(Audra)		
Facility Name Kaiser SWD				er DIDPOSAL		
		21 - 1				
Surface Owner Pyote Water Systems, LLC Mineral Owner	Pyote Water S	stems, LLC	API No.	30-025-02538		
	TION OF REL rth/South Line	Feet from the	East/West Line E/W	County Lea COUNTY		
Latitude	Longitue	le	_	1440.4		
NATE	RE OF RELE	ACE				
Type of Release; production water		f Release 100BBLS	Volume R	ecovered 100 BBLS		
Source of Release	Date and	Hour of Occurrence		Hour of Discovery		
Vac truck (unknown due to no camera's) hit load line 3 Was Immediate Notice Given X Yes □ No □ Not Required	4/24/2015		4/24/15	2:35 am		
was miniediate Notice Given X 168 [] No [] Not Required	11 123, 1	o Whom? <i>Jerry Bi</i>	inon			
By Whom? Unknown driver (575)-390-3836	Date and	HOUR; 4/24/2015	2:35 am			
Was a Watercourse Reached?	If YES, V	olume Impacting t	he Watercourse.			
☐ Yes *** No***	DECEIVED					
If a Watercourse was Impacted, Describe Fully.*	· · · · · · · · · · · · · · · · · · ·	RECEIVEL)			
•	E	y OCD Distr	ict 1 at 11:10	am, Apr 30, 2015		
Describe Cause of Problem and Remedial Action Taken.* unknown truck driver hit load line 3 caused a spill. We had an anonymous driver call us at 2:35 am (575)390-3836 in the morning, upon his arrival he noticed a large amount of water on the pad at the location, than noticed line 3 was had been hit. He did not see this happen at the Kaiser						
Describe Area Affected and Cleanup Action Taken.* Area affected was the pad only at the location. Jerry and his pumper (backhoe) 2 vac trucks one from Big Buck Services and one from BT		l damages themsel	ves, remedial work	done by L&J services		
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	e notifications the NMOCD r iate contamina	and perform correct narked as "Final Re tion that pose a thre	tive actions for rele eport" does not reli- eat to ground water	ases which may endanger eve the operator of liability , surface water, human health		
	OIL CONSERVATION DIVISION					
Signature: Printed paine: Jerry Burton		000	1/00			
Trimed Faulto. Verry durant	Approved by	Environmental Sp	pecialist:	and for		
Attle: NM Operations Manager for Pyote Water systems, LLC	Approval D			Date: 07/30/2015		
jerry@pyotewatersystems.com or audra@pyotewatersystems.com	Ch. 171	£ 4		77 2000		
E-mail Address: 4-26-2015	Conditions of Site samples in	f Approval: equired. Delineate	and remediate	Attached 294873		
Date: 4/26/15 Phone:432.448.4917		D guides. Geotag		1RP 3621		
Attach Additional Sheets If Necessary	remediation i			pKJ1512042374		

Received by 10CD: 8/29/2023 3:37:34 PM ate of New Mexico
Page 6 Oil Conservation Division

	Page 57 of 1449
Incident ID	nKJ1512041707
District RP	1RP-3621
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	ed in 19.15.29.11 NMAC
Photographs of the remediated site prior to ba must be notified 2 days prior to liner inspection)	ckfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: a	appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report a may endanger public health or the environment. The should their operations have failed to adequately invhuman health or the environment. In addition, OCE compliance with any other federal, state, or local largestore, reclaim, and re-vegetate the impacted surface accordance with 19.15.29.13 NMAC including notions. Printed Name: Dusty McInturff	true and complete to the best of my knowledge and understand that pursuant to OCD rules and/or file certain release notifications and perform corrective actions for releases which he acceptance of a C-141 report by the OCD does not relieve the operator of liability exestigate and remediate contamination that pose a threat to groundwater, surface water, D acceptance of a C-141 report does not relieve the operator of responsibility for ws and/or regulations. The responsible party acknowledges they must substantially ce area to the conditions that existed prior to the release or their final land use in fication to the OCD when reclamation and re-vegetation are complete. Title: Project Manager
Signature: 5reff	Date: 5/5/23
email: dmcinturff@dufrane.com	Telephone:(432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the remediate contamination that poses a threat to groun party of compliance with any other federal, state, or	esponsible party of liability should their operations have failed to adequately investigate and advater, surface water, human health, or the environment nor does not relieve the responsible r local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Received by OCD: 8/29/2023 3:37:34 PM

<u>District I</u> 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 Mex

RECEIVED Energy Minerals and Natura By JKeyes at 7:43 am, Jun 09, 2016

Initial Report

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

nJXK1616127644 pJXK1616127747

Page 58 of 1449

Final Report

Release Notification and Corrective Action

OPERATOR

						Contact Jerry Burton				
						Telephone N	No. 432-448	-4917		
Facility Na	ne Kai	ser Swd				Facility Typ	e production	on Wat	er	
Surface Owner STATE Mineral Owner						STATE			API No	. 30-025-02538
				•		N OE DEI			1	
TT ': T ::	I a .:	T 1:	l p			N OF REI		E //X	7 . T .	
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	est Line	County
F	13	21s	245 34E							LEA COUNTY
			La	titude 32.4808	3578-	Longitud	le 103.42565	92 nac	83	
						OF RELI		•		
Type of Rele			l tanks whi	le driver was unloa	ading		Release 1050 BE			Recovered 1050 bbls
Source of Re		luction water					Iour of Occurrence	ce 5-17-16	Date and	Hour of Discovery 4 PM
Was Immedi		X	Yes 🗆	No Not Re	equired	If YES, To	JERRY		N via telepl	hone by driver
By Whom?							Iour 5/17/16 4P			
Was a Water	course Read		/	1		If YES, Vo	olume Impacting t	the Wate	rcourse.	
			Yes [] No		1050 BL	S			
If a Waterco	ırse was Im	pacted, Descr	ibe Fully.	*						
<i>c.</i>		e (1 11								
fire melte	d parts of	t the liner,v	vater go	t under the lin	er					
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*						
liahtinina k	it lood to	nko and bi	irpod 6	EOO bbl tanka	loop th	on 2 bblo	braaabad aan	toinme	nt calla	d voo truck out to omntv
		he fire dep			เยรร แ	ian z bbis	breeched con	ııaıııııe	ini. Cane	d vac truck out to empty
Containing	iii aitoi t	ne me dep	t put ou	t tile life.						
Describe Are	a Affected	and Cleanup A	Action Tal	cen.*						
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load side	Containin	ent nave c	ican up	crew cleaning	y up ai	iu uisposiii	ig of old tallks	s and c	at wain t	o sulldown
										suant to NMOCD rules and
										eases which may endanger
public health	or the envi	ronment. The	acceptano	ce of a C-141 repo	ort by the	e NMOCD m	arked as "Final R	leport" de	oes not reli	ieve the operator of liability r, surface water, human health
	or the environment. In addition, NMOCD 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.									
							OIL CON	SERV	ATION	DIVISION
G:	Torru	Burton								
Signature:	Jorry	Dru DUIL					n		Jami	& lhyer
Printed Nam	e: Jerry E	Burton				Approved by	Environmental S	pecialist	. /	
							06/09/2016			08/09/2016
Title: NM	Operation	ns Mgr				Approval Dat	te: 00/09/2010	I	Expiration	Date:
E-mail Addr	ecci ierry	@pyotewa	tersyste	ems com		Conditions of	f Approval:			
E-man Addr	cas. juity	<u>∞</u> pyolowa	toroyoto					te and re	mediate	Attached
Date: 5-18-2016 Phone: 4324484917 Discrete samples only. Delineate and remediate per NMOCD guidelines. Atta						1RP 4305				

* Attach Additional Sheets If Necessary

Received by OCD: 8/29/2023 3:37:34 PM State of New Mexico
Page 6 Oil Conservation Division

	Page 59 of 1449
Incident ID	nJXK16116127644
District RP	1RP-4305
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	ed in 19.15.29.11 NMAC
Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	ckfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
I aboratory analyses of final sampling (Note: at	ppropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The should their operations have failed to adequately inv human health or the environment. In addition, OCD compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surfac accordance with 19.15.29.13 NMAC including notif	and/or file certain release notifications and perform corrective actions for releases which he acceptance of a C-141 report by the OCD does not relieve the operator of liability restigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for we and/or regulations. The responsible party acknowledges they must substantially be area to the conditions that existed prior to the release or their final land use in fication to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date: Date:
Signature: 25 Med 7	
email: dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re remediate contamination that poses a threat to ground party of compliance with any other federal, state, or	esponsible party of liability should their operations have failed to adequately investigate ardwater, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

District I 1625 N: French Dr., Hobbs, NM 88240 District II 811 S. First St., Arlesia, 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 CDEnergy Minerals and Natural Resources

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

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

		RE	Kei	ease Notifica		OPERA		CHOI		al Report	П	Final Report
Name of Co	mnany C	amhrian Ma	nagement	LTD		Contact: Mike Anthony						
Address: 41				, DID.		Telephone No. 432-631-4398						
Facility Nar						Facility Type: SWD						
Surface Ow	ner: State			Mineral Ow	vner: S	State			API No	. 30-025-02	2538	
LOCATIO							LEASE					
Unit Letter F						South Line North	Feet from the 1980	East/\ West	West Line	County Lea		
			La	atitude 32,48085		_	le103.425659	2_				
T CD.1	D. 1	1 117.4		NATU	JKE	OF REL			Walama I	2		
Type of Rele Source of Re							Release: Unknow lour of Occurrence			Recovered: 0 Hour of Dis		
Source of Re	lease, Frac	Lanas				Date and I	ion of occurrenc	С.	Date and	110ul 01 Dis	covay.	
Was Immedia	ate Notice (Yes [No Not Req	uired	If YES, To	Whom?					
By Whom?				4	4	Date and I	lour:					
Was a Water	course Read		Yes 🛚	No		If YES, Vo	olume Impacting t	the Wat	ercourse.			
If a Watercou	irse was Im	nacted Descr	ihe Fully.	1								
Due to a light	tning strike		attery fluid	n Taken.* I was transferred int antity of fluid. The						construction	. The fi	rac tanks
The frac tank	s were set o		de of the a	ten.* Iffected battery. The taken in preparation				ound the	battery be	rm and conti	inued so	outh-
regulations at public health should their of or the environ	or the envi operations h nment. In a	are required to ronment. The nave failed to	o report and acceptance acceptanc	e is true and comple ad/or file certain rele ce of a C-141 report investigate and ren stance of a C-141 re	ease no by the nediate	otifications a NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thr	ctive act eport" of eat to g	ions for rel loes not reli round water	eases which ieve the oper r, surface wa	may en rator of ster, hus	ndanger Tiability man health
						OIL CONSERVATION DIVISION						
Signature: /	(anthony	J			Approved by Environmental Specialist:						
		Superintenden	t		1	Approval Da	te: 11/23/201	16	Expiration	Date: 01	/23/2	017
E-mail Addre	ess: mantho	ny@cambrian	mgmt.com	n		Conditions of Approval:			Attached			
Date: 11/15/1	16	Phone	e: 432-631	-4398		Please see	e attached Di	rectiv	re		4525	
Attach Addi		ets If Necess	ary							nKL1		

Released to Imaging: 9/1/2023 3:11:42 PM

pKL1632848917

Received by 10CD: 8/29/2023 3:37:34 PM State of New Mexico
Page 6 Oil Conservation Division

	Page 61 of 1449
Incident ID	nKL1632848695
District RP	1RP-4525
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	
Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	ckfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: a	appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The should their operations have failed to adequately involved them health or the environment. In addition, OCD compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surfact accordance with 19.15.29.13 NMAC including notification.	and/or file certain release notifications and perform corrective actions for releases which be acceptance of a C-141 report by the OCD does not relieve the operator of liability vestigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for was and/or regulations. The responsible party acknowledges they must substantially be area to the conditions that existed prior to the release or their final land use in fication to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date: Date:
The state of the s	Telephone: (432) 634-7865
email: dmcinturff@dufrane.com	
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re remediate contamination that poses a threat to groun party of compliance with any other federal, state, or	esponsible party of liability should their operations have failed to adequately investigate an adwater, surface water, human health, or the environment nor does not relieve the responsible r local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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

Form C-141 Revised April 3, 2017

pOY1730059151

nOY1730058924

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

						OPERATOR					
		ambrian Man			(Contact Mike Anthony					
		2, Midland, T	X 79702	2		Telephone No. (432)631-4398					
Facility Na	me Kaiser	State SWD			I	Facility Type Salt Water Disposal					
Surface Ov	ner State			Mineral O	wner S	state			API No	. 30-025-02538	
				LOCA	TION	OF RE	LEASE				
					South Line	Feet from the	East/V	Vest Line	County	ounty	
F 13 21S 34E									Lea		
				- 21 (22)(2)(- E. 25a	Yes Tulescope				
			Latitud	le32.48008578	B_Lo	ngitude_	-103.4256592	NAD	33		
				NAT	URE	OF REL					
Type of Rele	ease Produc	ed Water & Cr	rude Oil			Volume o	f Release			Recovered	
Source of Re	elease	Service of Service				50 bbls Date and	Hour of Occurrence	ce	0 bbls Date and	Hour of Discovery	
						Unknown				017, 12:35 PM	
Was Immed	iate Notice (Yes 🗸	No □ Not Rec	quired	If YES, T	o Whom?				
By Whom?			i cs ly	1 NO LI NOT KE	quireu	N/A	Have				
by whom:	N/A					Date and	N/A				
Was a Wate	rcourse Read	TETRE TO CO.		7		If YES, V	olume Impacting	the Wate	ercourse.		
		L	Yes 🗸	☐ Yes ☑ No							
If a Watercourse was Impacted, Describe Fully.*					RECEIVED						
II a waterco	urse was Im	pacted, Descr	ibe Fully.	*							
Describe Ca	use of Probl	em and Reme	dial Actio	n Taken.*	ently ur		By Olivia	Yu at		pm, Oct 27, as been taken at	
Describe Ca The cause	use of Probl e of the re	em and Reme lease is un	dial Actio	n Taken.* ned and is curre	ently ur		By Olivia	Yu at			
Describe Ca The cause Describe Ar	use of Proble of the re	em and Reme lease is und	dial Actio determir	n Taken.* ned and is curre ken.*		nder inves	By Olivia etigation. No re	Yu at	action ha	as been taken at	this point.
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1RP-4855

Received by OCD: 8/29/2023 3:37:34 PM State of New Mexico
Page 6 Oil Conservation Division

	Page 03 of 1449
Incident ID	nOY1730058924
District RP	1RP-4855
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each	of the following items must be included in the closure report.
A scaled site and sampling diagram as descri	ibed in 19.15.29.11 NMAC
Photographs of the remediated site prior to be must be notified 2 days prior to liner inspection)	backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
✓ Laboratory analyses of final sampling (Note:	: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. It is should their operations have failed to adequately in human health or the environment. In addition, OC compliance with any other federal, state, or local light restore, reclaim, and re-vegetate the impacted surface.	t and/or file certain release notifications and perform corrective actions for releases which The acceptance of a C-141 report by the OCD does not relieve the operator of liability investigate and remediate contamination that pose a threat to groundwater, surface water, CD acceptance of a C-141 report does not relieve the operator of responsibility for laws and/or regulations. The responsible party acknowledges they must substantially face area to the conditions that existed prior to the release or their final land use in otification to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date: 5/5/23
email: dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the remediate contamination that poses a threat to grouparty of compliance with any other federal, state,	e responsible party of liability should their operations have failed to adequately investigate an undwater, surface water, human health, or the environment nor does not relieve the responsible or local laws and/or regulations.
Closure Approved by:	Date:
Avet Alexander	Title

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 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

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Santa Fe, NM 87505														
Release Notification and Corrective Action														
							OPERATOR					Final Report		
		ambrian Man				Contact M								
		2, Midland, T	X 79702	2				432)631-43						
Facility Nan	ne Kaiser	State SWD				Facility 13	pe Sa	alt Water D	isposal				_	
Surface Ow	ner State			Mineral C	wner S	State				API	No.	30-025-0	2538	
				LOCA	TION	OF RE	LEA	ASE						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Fee	t from the	East/V	West Li	ine	County .		
F	13	21S	34E									Lea		
Latitude 32.48008578 Longitude -103.4256592 NAD83														
				NAT	URE	OF REI	LEAS	SE						
Type of Relea	ase Produc	ed Water				Volume of 20 bbls		ase		Volu 10 b		ecovered		
Source of Re	lease Seal c	on pump				Date and Unknowr		of Occurrent	ce			Hour of Dis 8, 10:00 AM		
Was Immedia		Given?	Yes 🗸] No □ Not Re	eauired	If YES, 7 N/A	o Who	om?						
By Whom?	ALL A					Date and	Hour			_				
Was a Water	N/A course Read	ched?	_			N/A If YES, Volume Impacting the Watercourse.								
			Yes 🔽] No		N/A RECEIVED								
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*								_		
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*			Ву	Olivia	Yu a	it 9:	34	am, F	eb 0	7, 2018
			acuum t	ruck was utilize	ed to re	ecover fre	e-star	nding liqui	d. The	seal	was	repaired	during	g initial
response	activities.													
Describe Are	a Affected	and Cleanup A	Action Tal	ken.*										
The releas	se was co	onfined to th	ne prima	ry and second	a ry ear	then cont	ainme	ent berms	surrou	ınding	the	SWD ba	ttery.	The
				ed approximat										
				ee 1RP-4855)	. Reme	ediation of	f the ii	mpacted a	area wi	ill be d	cond	ucted in	accor	dance with
NIMOCD a	ana NIVISI	_O guidelin	es.											
I hereby certi	ify that the	information gi	iven above	e is true and comp	lete to th	ne best of m	y knov	vledge and u	understa	nd that	purs	uant to NM	OCD r	ules and
regulations a	II operators	are required t	o report a	nd/or file certain r	elease no	otifications	and pe	rform corre	ctive act	tions fo	r rele	eases which	may e	ndanger
				ce of a C-141 report investigate and r										
				otance of a C-141										
		ws and/or regi												,
		\sim					<u>C</u>	DIL CON	<u>ISER V</u>	ATI	<u>ON</u>	DIVISIO	<u>N</u>	
Signature: Danie Jones											()	4		
						Approved b	y Envi	ironmental S	Specialis	st:		()		
							2	2/7/2018	3	<u>.</u>		4		
Title: Regul						Approval D				Expira	tion I	Date:		/
E-mail Addre	ess: djones	s@cambria				Conditions			ii (c			Attached		
Date: 2/	tional Sha	ets If Necess		: (432) 620-91	81	see attached directive								
Attacii Audi	nonai Sile	C13 11 14ECE25	out y		F	1RP-49	60	nOY	18038	8340)27	\neg		

pOY1803834550

Received by OCD: 8/29/2023 3:37:34 PM State of New Mexico
Page 6 Oil Conservation Division

	Page 65 of 1449
Incident ID	nOY1803834027
District RP	1RP-4960
Facility ID	
Application ID	

Closure

Class Based Attaches at Charling Factor	the following items must be included in the closure various
	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	d in 19.15.29.11 NMAC
Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	ekfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: a	ppropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
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Signature:	Date: 5 (5/23
email: dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re remediate contamination that poses a threat to groun- party of compliance with any other federal, state, or	esponsible party of liability should their operations have failed to adequately investigate and dwater, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Printed Name	Title:

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

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	catio	n and Co	rrective A	ction	ì			
						OPERA	ГOR		☐ Initi	al Report		Final Repor
Name of Company Cambrian Management, Ltd. Address PO Box 272, Midland TX 79702						Contact Mike Anthony Telephone No . 432-631-4398						
Facility Na			19/02			Facility Typ		398				
Tacinty 1 (a)	iic ituisei	State 5 Tr B				Tuesting Typ	.C 5 11 B					
Surface Ow	ner State			Mineral C	Owner	State			API No	o. 30-025-	02538	3
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		Orth/South Line Feet from the			West Line	County		
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1												
			Latitud	32.480857	78_I	_ongitude	03.4256592	NAD	83			
				NAT	URE	OF REL	EASE					
Type of Rele							Release 150 bb			Recovered		
Source of Re	iease Welli	nead				Date and F 06/20/2018	Iour of Occurren	ce		Hour of Dis 18 10:00 <i>A</i>		У
Was Immedi	ate Notice (Yes X	No Not Re	quired	If YES, To			1			
By Whom?			_			Date and F	Iour					
Was a Water	course Read	ched?	l Yes X	No		If YES, Vo	olume Impacting	the Wat	ercourse.			
If a Wataraa	maa waa Im	pacted, Descr	iba Eully:	k								
Describe Ca	use of Probl	em and Reme	dial Actio	n Taken *								
		te off – nipple										
	s contained	and Cleanup A to the caliche		ken.* water was picked	up. Tł	nis was on top	of a previous spi	ll that w	as already 1	reported and	l is in t	the process to
regulations a public health should their or the enviro	Il operators or the envi- operations h nment. In a	are required to ronment. The nave failed to	to report and acceptant adequately DCD acceptant	e is true and comp nd/or file certain r ce of a C-141 repo vinvestigate and r otance of a C-141	release in the selection of the selectio	notifications a he NMOCD m te contaminati	nd perform corre arked as "Final F on that pose a th	ctive act Report" or reat to g	tions for rel does not rel round wate	eases which ieve the ope r, surface w	n may o erator o rater, h	endanger of liability uman health
OIL CONSERVA							ATION	DIVISIO	<u>ON</u>			
Signature:									PI	L		
						Approved by Environmental Specialist: 6						
Title: Regul						Approval Da	7/31/2018	8	Expiration	Date:		
		@cambrianm	gmt.com			Conditions o			•		4 m/	/
Date: 06/21/		Phone:				See attached directive Attached						
Date. 00/21/	2010	i none.				1RP-5139	9	рСН	<u> </u>	9860		
Released to In	naging: 9/	/1/2023 3:11	1:42 PM		ı	nCH1821		POIT	102120			

Received by 10CD: 8/29/2023 3:37:34 PM state of New Mexico
Page 6 Oil Conservation Division

	Page 67 of 1449
Incident ID	nCH1821239639
District RP	1RP-5139
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	d in 19.15.29.11 NMAC
Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	kfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: ap	ppropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The should their operations have failed to adequately inv human health or the environment. In addition, OCD compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surfac accordance with 19.15.29.13 NMAC including notif Printed Name: Dusty McInturff	ad/or file certain release notifications and perform corrective actions for releases which acceptance of a C-141 report by the OCD does not relieve the operator of liability estigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for and/or regulations. The responsible party acknowledges they must substantially are area to the conditions that existed prior to the release or their final land use in fication to the OCD when reclamation and re-vegetation are complete. Title: Project Manager
Signature: 3 Mety	Date: 5/5/23
email:dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re remediate contamination that poses a threat to ground party of compliance with any other federal, state, or	sponsible party of liability should their operations have failed to adequately investigate an dwater, surface water, human health, or the environment nor does not relieve the responsibl local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Received by OCD: 8/29/2023 3:37:34 PM

<u>District 1</u>
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**

Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

			Rele	ease Notific	cation	and Co	rrective A	ction	1			
						OPERA	TOR		X Initi	al Report		
Name of Company Cambrian Management, Ltd						Contact Andy Rickard						
		, Midland, T					No. 432-620-91	81				
Facility Na	me Kaiser	State SWD				Facility Typ	e SWD					
Surface Ov	vner State			Mineral (Owner S	tate			API No	. 30-025-02538		
				LOC	ATION	OF RE	FASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/	West Line	County		
F	13	21S	34E	1980	North		1980	West		Lea		
			Latitu	de 32.480938 N	Lo	ngitude -10	3.425227	NAD8	33			
				NAT	TURE	OF REL	EASE					
Type of Rele							Release 200 Bb			Recovered 200 Bbls		
Source of Re	elease Valv	re				100000000000000000000000000000000000000	Hour of Occurrence	ce		Hour of Discovery		
Was Immed	iate Notice (Given?				08/06/2013 If YES, To			08/06/20	18 10:00AM		
was milited	iate Notice		Yes 🗌	No 🗌 Not Re	quired	Christina I						
By Whom?							Hour 08/06/2018					
Was a Water	rcourse Rea		Yes X	No		If YES, Ve	olume Impacting	the Wat	ercourse.			
If a Waterco	urse was Im	npacted, Descr	ihe Fully	*								
ir a vvaloroo	arse was m	ipacica, Desci	ico i unj.			REC	EIVED					
								. 4 . 4	0	A 07 0040		
						By	ilivia Yu al	1:48	s pm, A	Aug 07, 2018		
		voltage at the		rmers to lower p	peak cui	rent.						
Only the are	a inside the	berm which is	s lined wit	th plastic was affe	ected. Al	I water was v	acuumed up.					
regulations a public health should their or the enviro	all operators or the envi operations l onment. In a	s are required in a reprincible are required to have failed to	to report a e acceptan adequatel OCD acce	nd/or file certain ce of a C-141 rep y investigate and	release no ort by the remediate	otifications a e NMOCD m e contaminat	nd perform corre- parked as "Final Fion that pose a the	ctive act Report" of reat to g	tions for rel does not rel round wate	suant to NMOCD rules and leases which may endanger lieve the operator of liability r, surface water, human health compliance with any other		
-		_					OIL CON	SERV	VATION	DIVISION		
Signature:	Danie	u Jone	0						m	4		
Printed Name: Denise Jones						Approved by	Environmental S	Specialis	st:	<u> </u>		
Title: Regulatory Analyst						Approval Date: 8/7/2018 Expiration Date:						
E-mail Addr	ess: diones	@cambrianm	gmt.com			Conditions o	f Approval:					
E-mail Address: djones@cambrianmgmt.com					1	.) Please in	spect liner in o	•		Attached		
	06/2018 itional She	ets If Neces		hone: 432-620-91	1,		th a concise re	•				
Timon ridu	onai one	11 110003	J. J.			•	with affirmation			1RP-5149		
nOY1821950108 pOY1821950272						and will continue to contain liquids.						
leased to Imaging: 9/1/2023 3:11:42 PM						2) At least one photo must demonstrate						
easea to In	iaging: 9/1	1/2023 3:11:	42 PM		l+	he entire f	acility is lined			1		

Received by OCD: 8/29/2023 3:37:34 PM State of New Mexico
Page 6 Oil Conservation Division

	Page 69 of 1449
Incident ID	nOY1821950108
District RP	1RP-5149
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each of t	the following items must be included in the closure report.
A scaled site and sampling diagram as described	d in 19.15.29.11 NMAC
Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	kfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: ap	opropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report an may endanger public health or the environment. The should their operations have failed to adequately involument human health or the environment. In addition, OCD compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surface	rue and complete to the best of my knowledge and understand that pursuant to OCD rules ad/or file certain release notifications and perform corrective actions for releases which acceptance of a C-141 report by the OCD does not relieve the operator of liability estigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for and/or regulations. The responsible party acknowledges they must substantially are area to the conditions that existed prior to the release or their final land use in fication to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date: Date
email: dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re- remediate contamination that poses a threat to ground party of compliance with any other federal, state, or	sponsible party of liability should their operations have failed to adequately investigate and dwater, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Form C-141 Revised April 3, 2017

<u>District I</u> 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**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

Release Notification and Corrective Action

						OPERA	TOR		X Initia	al Report	
Name of C		t, Ltd		Contact Mr. Mike Anthony							
							No. 432-631-4	398			
Facility Na	me Kaiser	State SWD				Facility Typ	e SWD				
Surface Ov	vner State			Mineral (Owner S	State			API No	. 30-025-02538	
	38832353803				Jul 7		EACE				
Unit Letter	Section	Township	Range	Feet from the	_	OF RE	Feet from the	East/	West Line	County	
F 13 21S 34E 1980 Nor							1980	West		Lea	
			Latit	ude 32.480938	N Lo	ngitude -10	3.425227	NAD83	3		
						OF REL					
Type of Rele	ease Produc	ed Water					Release 500 Bb	ls	Volume I	Recovered 500 Bbls	
Source of Ro	elease Unlo	ad Tanks				The second of the second of the	lour of Occurrence	ce		Hour of Discovery	
Was Immed	iate Notice (Given?				If YES, To	3 10:00AM Whom?	-	08/17/20	18 11:00 AM	
-,			Yes	No 🗌 Not Re	quired		and other OCD m	nember	on location		
By Whom?							Iour 12:00 PM (
Was a Water	rcourse Read		Yes X	No		If YES, Vo	olume Impacting	the Wat	ercourse.		
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*		DE	CENTED				
						KE	CEIVED				
						By	Olivia Yu a	at 10	:04 am	, Aug 21, 2018	
		and Cleanup			er was re	covered. The	e pit liner and tan	ks will	be washed a	after all water has been picked	
ир.											
regulations a public health should their or the environ	all operators n or the envi operations h onment. In a	are required to ronment. The nave failed to	o report a acceptan adequately OCD accep	nd/or file certain ce of a C-141 rep y investigate and	release no ort by the remediate	otifications a e NMOCD m e contaminat	nd perform correct tarked as "Final Right ton that pose a thing the the operator of	ctive ac leport" reat to g respons	tions for rel does not rel ground wate sibility for c	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other	
_		0				OIL CONSERVATION DIVISION					
Signature:	Dance	i	w Cu						192	1	
The state of the s					Approved by Environmental Specialist:						
Title: Regulatory Analyst						Approval Date: 8/21/2018 Expiration I				Date:	
E-mail Addı	ess: djones	@cambrianmg	gmt.com			Conditions o	Attached				
17810. 00/1//2010 11010.432-020-7101					1) Inspect liner in question. Provide				Carbraga 1		
		ets If Necess					th a concise re	•			
nOY1823336566 pOY1823336912						inspection with affirmation the liner has and will continue to contain liquids.					
leased to Imaging: 9/1/2023 3:11:42 PM						2) Dated photo documentation of liner.					

Received by 10CD: 8/29/2023 3:37:34 PM State of New Mexico
Page 6 Oil Conservation Division

	Page 71 of 1449
Incident ID	nOY1823336566
District RP	1RP-5163
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Fach of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	ed in 19.15.29.11 NMAC
Photographs of the remediated site prior to bar must be notified 2 days prior to liner inspection)	ckfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: a	appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The should their operations have failed to adequately invhuman health or the environment. In addition, OCD compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surface.	and/or file certain release notifications and perform corrective actions for releases which the acceptance of a C-141 report by the OCD does not relieve the operator of liability exestigate and remediate contamination that pose a threat to groundwater, surface water, of acceptance of a C-141 report does not relieve the operator of responsibility for the water and/or regulations. The responsible party acknowledges they must substantially the area to the conditions that existed prior to the release or their final land use in fication to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date: Date:
email: dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re remediate contamination that poses a threat to groun party of compliance with any other federal, state, or	esponsible party of liability should their operations have failed to adequately investigate and adwater, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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	NCH1834760902	
District RP	1RP-5273	
Facility ID	1	
Application ID	pCH1834761047	

Release Notification

Responsible Party

Responsible Party Permian Water Solutions, LLC			tions, LLC	OGRID	OGRID 373626	
Contact Name Dale Glosson				Contact	Contact Telephone 432-894-3636	
Contact email dale@permianws.com				Incident	# NCH1834760902 KAISER STATE SWD	
Contact mailing address PO Box 2106, Midland, TX 79702			Midland, TX 79		@ 30-025-02538	
Latitude 32.	480938			Longitude	-103.425227	
Site Name Kaiser State SWD					Site Type Salt Water Disposal	
Date Release Discovered 11/2/18				Profession at the last	API# (if applicable) 30-025-02538	
Unit Letter	Section	Township	Range	Cou	nty	
F	13	218	34E	Lea	•	
	Materia	l(s) Released (Select	all that apply and atta	ch calculations or specific	justification for the volumes provided below)	
Crude Oil		Volume Released (bbls) 20			Volume Recovered (bbls) 16	
Produced Water Volume Released (bbls)			Volume Recovered (bbls)			
Is the concentration of dissolved chlorid produced water >10,000 mg/l?			All the state of t	chloride in the	Yes No	
Condensa	Condensate Volume Released (bbls)				Volume Recovered (bbls)	
Natural Gas Volume Released (Mcf)			ed (Mcf)		Volume Recovered (Mcf)	
Other (des	Other (describe) Volume/Weight Released (provide units		de units)	Volume/Weight Recovered (provide units)		
	1				volume, weight recovered (provide units)	

Received by OCD: 8/29/2023 3:37:34 PM State of New Mexico Page 2 Oil Conservation Division Incident ID NCH1834760902

District RP 1RP-5273

Facility ID PCH1834761047

Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Dai Glosson called District I office @ 11:25 am on 11/2/18, was transferred to Christina Hernandez, Left voicemail and call bac number. C. Hernandez called back later in the afternoon and the report was made. 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: The hydrocarbon impacted soil is in process of being removed and stored on plastic liner, as well as covered with plastic liner to prevent rainwater from dispersing hydrocarbon contamination, pending soil sampling and site assessment.		
Glosson called District I office @ 11:25 am on 11/2/18, was transferred to Christina Hernandez, Left voicemail and call bac number. C. Hernandez called back later in the afternoon and the report was made. 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: The hydrocarbon impacted soil is in process of being removed and stored on plastic liner, as well as covered with plastic liner to prevent rainwater from dispersing hydrocarbon contamination, pending soil sampling and site assessment.	release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
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: The hydrocarbon impacted soil is in process of being removed and stored on plastic liner, as well as covered with plastic liner to prevent rainwater from dispersing hydrocarbon contamination, pending soil sampling and site assessment.	Glosson called District	I office @ 11:25 am on 11/2/18, was transferred to Christina Hernandez, Left voicemail and call back
 ☑ 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: The hydrocarbon impacted soil is in process of being removed and stored on plastic liner, as well as covered with plastic liner to prevent rainwater from dispersing hydrocarbon contamination, pending soil sampling and site assessment. Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation immediately after discovery of a release. If remediation immediately after discovery of a release.		Initial Response
 ☑ 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: The hydrocarbon impacted soil is in process of being removed and stored on plastic liner, as well as covered with plastic liner to prevent rainwater from dispersing hydrocarbon contamination, pending soil sampling and site assessment. Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation 	The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
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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: The hydrocarbon impacted soil is in process of being removed and stored on plastic liner, as well as covered with plastic liner to prevent rainwater from dispersing hydrocarbon contamination, pending soil sampling and site assessment. Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation		
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[[[[[]]]] [[[]] [[[]] [[]] [[]] [[]] [has begun, please attach a	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: Tale Gusson Title: Detartors Markett Date: 1(1518) Telephone: 432.8943636	I hereby certify that the inforregulations all operators are public health or the environment failed to adequately investigated addition, OCD acceptance of and/or regulations. Printed Name: Pare Signature of a certain the second sec	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have at and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title: Date: 10 15 18 Telephone: 432.894.3636
Received by: By CHernandez at 4:56 pm, Dec 13, 2018	NECE	

Received by OCD: 8/29/2023 3:37:34 PM State of New Mexico
Page 6 Oil Conservation Division

	Page /4 of 1449
Incident ID	nCH1834760902
District RP	1RP-5273
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Cl. D. AMAL. C. III. C. I. C.	
Closure Report Attachment Checklist: Each of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	ed in 19.15.29.11 NMAC
Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	ckfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: ap	ppropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
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email: dmcinturff@dufrane.com	Telephone:(432) 634-7865
OCD Only	
Received by:	Date:
	sponsible party of liability should their operations have failed to adequately investigate and dwater, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

From: Smith, Cory, EMNRD

To: Gonzales, Clair

Cc: Crosby, Faith; Mann, Ryan; Dusty McInturff; "Jenni Usher"; Josh Brooks

Subject: RE: [EXTERNAL] PWS - Kaiser SWD - Variance Request _ SW-77, SW-56, SW-53 and SW-68

Date: Wednesday, October 12, 2022 10:13:40 AM

You don't often get email from cory.smith@emnrd.nm.gov. Learn why this is important

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Clair,

OCD approves the variance to leave SW77,56,53,68 in place because the H2,3,4,5,6 show that its minimal

Please include this approval in your final C-141.

Cory Smith • Environmental Projects Supervisor Environmental Bureau Projects Group EMNRD - Oil Conservation Division

5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113

505.419.2687 | Cory.Smith@state.nm.us

http://www.emnrd.state.nm.us/OCD/

From: Gonzales, Clair < Clair. Gonzales@tetratech.com>

Sent: Tuesday, October 11, 2022 4:03 PM

To: Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>

Cc: Crosby, Faith <fcrosby@slo.state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>; Dusty McInturff <dmcinturff@dufrane.com>; 'Jenni Usher' <jenni@permianws.com>; Josh Brooks <josh@permianws.com>

Subject: [EXTERNAL] PWS - Kaiser SWD - Variance Request _ SW-77, SW-56, SW-53 and SW-68

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon Cory,

Attached is the analysis table, laboratory report, and updated kmz – which includes the data for sidewall areas SW-77, SW-56, SW-53 and SW-68. These areas exceeded the reclamation thresholds for the top 4.0' for chlorides. However, BTEX and TPH concentrations were below the RRALs and reclamation standards.

The chloride RRALs for the site are 7,000 mg/kg, however the reclamation thresholds for the top 4.0 of material is 600 mg/kg for chlorides.

The chloride concentrations detected at SW-77, SW-56, SW-53 and SW-68 ranged from 1,120 mg/kg to 3,710 mg/kg. Based on discussions with the SLO and OCD during the bi-weekly meetings,

horizontal delineation samples (H-2 through H-6) were collected to the west of the facility from surface to 2' below surface in order to horizontally delineate the chloride impact. Horizontal delineation samples H-2 through H-6 showed chloride concentrations ranging from 17.0 mg/kg to 57.3 mg/kg.

Based on the horizontal delineation of the west sidewall areas of SW-77, SW-56, SW-53 and SW-68, which are along the facility fence line and unable to be expanded off-lease, Permian Water Solutions is requesting a variance to leave the remaining impact above the reclamation standards in place.

Please let me know if you have any questions.

Thank you,

Clair Gonzales,

Clair Gonzales, P.G. | Project Manager & Office Lead

Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetratech.com

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From: Smith, Cory, EMNRD

To: Gonzales, Clair

Cc: Crosby, Faith; Mann, Ryan; Dusty McInturff; "Jenni Usher"; Josh Brooks

Subject: RE: [EXTERNAL] PWS - Kaiser SWD - Variance Request _ SW-46

Date: Wednesday, October 12, 2022 10:24:31 AM

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Clair,

OCD approves the variance to leave SW46 in place due to vertical/horizontal delineation from H1 and offsite/vegetative regrowth.

Please include this approval in your final C-141.

Cory Smith • Environmental Projects Supervisor

Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113
505.419.2687 | Cory.Smith@state.nm.us

http://www.emnrd.state.nm.us/OCD/

From: Gonzales, Clair < Clair.Gonzales@tetratech.com>

Sent: Tuesday, October 11, 2022 4:06 PM

To: Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>

Cc: Crosby, Faith <fcrosby@slo.state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>; Dusty McInturff <dmcinturff@dufrane.com>; 'Jenni Usher' <jenni@permianws.com>; Josh Brooks <josh@permianws.com>

Subject: [EXTERNAL] PWS - Kaiser SWD - Variance Request SW-46

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Good Afternoon Cory,

Attached is the analysis table, laboratory report, and updated kmz – which includes the data for sidewall areas SW-46. This area exceeded the reclamation thresholds for the top 4.0' for chlorides. However, BTEX and TPH concentrations were below the RRALs and reclamation standards.

The chloride RRALs for the site are 7,000 mg/kg, however the reclamation thresholds for the top 4.0 of material is 600 mg/kg for chlorides.

The chloride concentration detected at SW-46 was 995 mg/kg. Based on discussions with the SLO

and OCD during the bi-weekly meetings, horizontal delineation sample H-1 was collected to the north of SW-46 from surface to 2' below surface in order to horizontally delineate the chloride impact. Horizontal delineation sample H-1 showed a chloride concentration of 72.0 mg/kg.

Based on the horizontal delineation of the sidewall area of SW-46, which is near the facility fence line and unable to be expanded off-lease, Permian Water Solutions is requesting a variance to leave the remaining impact above the reclamation standards in place.

Please let me know if you have any questions.

Thank you,

Clair Gonzales,

Clair Gonzales, P.G. | Project Manager & Office Lead

Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetratech.com

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From: Smith, Cory, EMNRD

To: Gonzales, Clair

Cc: Crosby, Faith; Mann, Ryan; "Jenni Usher"; Dusty McInturff; Josh Brooks

Subject: RE: [EXTERNAL] Permian Water Solutions - Kaiser SWD Variance Request

Date: Wednesday, October 12, 2022 10:29:51 AM

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Clair,

OCD approves the Variance to leave SW60, 69,70,71 in place due to monitor well integrity concerns.

Please include this approval in your Final C-141.

Thanks,

Cory Smith • Environmental Projects Supervisor
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division

5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113

505.419.2687 | Cory.Smith@state.nm.us

http://www.emnrd.state.nm.us/OCD/

From: Gonzales, Clair < Clair. Gonzales@tetratech.com>

Sent: Friday, September 30, 2022 1:21 PM

To: Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>

Cc: Crosby, Faith <fcrosby@slo.state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>; 'Jenni Usher' <jenni@permianws.com>; Dusty McInturff <dmcinturff@dufrane.com>; Josh Brooks <josh@permianws.com>

Subject: [EXTERNAL] Permian Water Solutions - Kaiser SWD Variance Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

Attached is the analysis table detailing the confirmation samples collected at the Permian Water Solutions Kaiser SWD. Four (4) sidewall samples (SW-60, SW-69, SW-70, and SW-71) were collected from the excavation area around the onsite monitor well. The excavation has been performed up to within 15' of the monitor well. Further excavation towards the monitor well cannot be safely performed without risking the well integrity. The sidewall samples collected around the monitor well show concentrations as shown below and on the attached analysis table:

• SW-60: Chloride concentration of 2,390 mg/kg. TPH and BTEX concentrations are below the reclamation standards.

SW-69: Chloride concentration of 6,380 mg/kg and a total TPH concentration of 1,890 mg/kg. BTEX concentrations are non-detect.

- SW-70: Total TPH concentration of 1,770 mg/kg. BTEX and chloride concentrations are below the reclamation standards.
- SW-71: Chloride concentration of 1,460 mg/kg. TPH and BTEX concentrations are non-detect.

Based on the location of the samples collected and risk to the existing monitor well onsite; Permian Water Solutions requests a variance to leave the material around the monitor well, 15' in each cardinal direction, in place.

Please let me know if you have any questions or concerns.

Thank you,

Clair Gonzales,

Clair Gonzales, P.G. | Project Manager & Office Lead

Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetratech.com

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From: Smith, Cory, EMNRD

To: Gonzales, Clair

 Cc:
 Crosby, Faith; Mann, Ryan; Dusty McInturff; "Jenni Usher"; Josh Brooks

 Subject:
 RE: [EXTERNAL] PWS - Kaiser SWD - Variance Request_ Area of SW-72

Date: Monday, November 28, 2022 11:11:59 AM

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Clair,

OCD approves to Permian's request to leave SW-72 in place due to the delineation samples of H8 and H-9.

Please include this approval in your final C-141 report.

Cory Smith • Environmental Projects Supervisor Environmental Bureau EMNRD - Oil Conservation Division 5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113

5200 Oakland Avenue N.E. Suite 100 | Albuquerque, NM 87113 505.419.2687 | Cory.Smith@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Gonzales, Clair <Clair.Gonzales@tetratech.com>

Sent: Tuesday, November 22, 2022 2:12 PM

To: Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>

Cc: Crosby, Faith <fcrosby@slo.state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>; Dusty McInturff <dmcinturff@dufrane.com>; 'Jenni Usher' <jenni@permianws.com>; Josh Brooks <josh@permianws.com>

Subject: RE: [EXTERNAL] PWS - Kaiser SWD - Variance Request_ Area of SW-72

Good Afternoon,

As requested, horizontal and vertical delineation of the section between SW-72 and Phase I was completed. Attached is the updated kmz and analysis table. For reference, the sample previously collected at SW-72 showed a TPH concentration of 436 mg/kg at 0-8' bgs, non-detect BTEX concentrations and a chloride concentration of 70.1 mg/kg. Two (2) horizontal delineation samples (H-8 and H-9) were collected at 5' bgs. Both samples showed TPH and BTEX concentrations below the laboratory reporting limits. Additionally, chloride concentrations were below the RRALs for the site with concentrations of 89.9 mg/kg (H-8) and 672 mg/kg (H-9).

Based on the horizontal and vertical delineation of the impact in this area, Permian Water Solutions requests a variance to leave the remaining impact in the area of SW-72 in place.

Please let me know if you have any questions or concerns.

Thank you,

Clair Gonzales,

Clair Gonzales, P.G. | Project Manager & Office Lead

Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetratech.com

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From: Smith, Cory, EMNRD < cory.smith@emnrd.nm.gov >

Sent: Wednesday, October 12, 2022 9:26 AM

To: Gonzales, Clair < <u>Clair.Gonzales@tetratech.com</u>>

Cc: Crosby, Faith < fcrosby@slo.state.nm.us; Mann, Ryan < rmann@slo.state.nm.us; Dusty McInturff < dmcinturff@dufrane.com; 'Jenni Usher' < jenni@permianws.com; Josh Brooks jenni@pe

Subject: RE: [EXTERNAL] PWS - Kaiser SWD - Variance Request_ Area of SW-72

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Clair,

I need to know the total volume of impacted soils estimated to be left in place.. To do that the area between SW-72 SW—9 needs to be vertically delineated.

Cory Smith • Environmental Projects Supervisor

Environmental Bureau Projects Group EMNRD - Oil Conservation Division

5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113

505.419.2687 | Cory.Smith@state.nm.us

http://www.emnrd.state.nm.us/OCD/

From: Gonzales, Clair < <u>Clair.Gonzales@tetratech.com</u>>

Sent: Tuesday, October 11, 2022 3:51 PM

To: Smith, Cory, EMNRD < cory.smith@emnrd.nm.gov>

Cc: Crosby, Faith < fcrosby@slo.state.nm.us; Mann, Ryan < rmann@slo.state.nm.us; Dusty McInturff < dmcinturff@dufrane.com; 'Jenni Usher' < jenni@permianws.com; Josh Brooks jenni@permianws.

Subject: [EXTERNAL] PWS - Kaiser SWD - Variance Request_ Area of SW-72

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Good Afternoon Cory,

Attached is the analysis table, laboratory report, and updated kmz – which includes the data for SW-72.

The RRALs for TPH in this area are 1,000 mg/kg for GRO+DRO or 2,500 mg/kg for total TPH. However, the reclamation thresholds for the top 4.0' are 100 mg/kg for TPH.

Referring to the analysis table, SW-72 showed a TPH concentration of 436 mg/kg. This sample was collected along the 8' sidewall – which proved to be logistically difficult. Therefore, the majority of the material collected for the soil sample was collected from the bottom portion of the sidewall that was easily accessible. Additionally, this sidewall area is approximately 25' from the edge of Phase I SW-9. The sample collected during Phase I at SW-9 showed TPH concentrations below laboratory reporting limits, indicating that the section between SW-72 and SW-9 is horizontally delineated.

Permian Water Solutions would like to request a variance to leave this remaining impact in place, based on the location of the area in proximity to Phase I and SW-9, and the logistics and safety concerns of collecting a composite sample of the top portion of the sidewall.

Let me know if you have any questions or concerns.

Thank you,

Clair Gonzales.

Clair Gonzales, P.G. | Project Manager & Office Lead

Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetratech.com

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From: Smith, Cory, EMNRD

To: Crosby, Faith; Jenni Usher; Mann, Ryan; Gallegos, David; dmcinturff@dufrane.com; Gonzales, Clair; Josh Brooks

Subject: RE: [EXTERNAL] RE: PWS - Kaiser SWD Confirmation Sampling _ Phase II_UPDATE-12-29-2022

Date: Wednesday, January 18, 2023 10:22:46 AM

Attachments: image001.jpg image002.png

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Jenni,

SW-76 Your variance is approved to leave 931 Chlorides

SW-79 You variance is approved for 613 Chlorides is approved.

Per our conversation during our meeting on January 18, 2023 there is additional delineation data from a prior borehole that shows limited impacts at depth.

Your variance for approval for is approved

SW-75

SW-83

Please include these approvals in your final C-141 report.

Cory Smith • Environmental Projects Supervisor

Environmental Bureau Projects Group EMNRD - Oil Conservation Division 5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113 505.419.2687 | Cory.Smith@state.nm.us

http://www.emnrd.state.nm.us/OCD/

From: Crosby, Faith <fcrosby@slo.state.nm.us>

Sent: Tuesday, January 10, 2023 2:35 PM

To: Jenni Usher <jenni@permianws.com>; Mann, Ryan <rmann@slo.state.nm.us>; Gallegos, David <dgallegos@slo.state.nm.us>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; dmcinturff@dufrane.com; Gonzales, Clair <Clair.Gonzales@tetratech.com>; Josh Brooks <josh@permianws.com>

Subject: [EXTERNAL] RE: PWS - Kaiser SWD Confirmation Sampling _ Phase II_UPDATE-12-29-2022

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Thanks Jenni, Ryan and I will have something in writing to you asap

Best regards,

Faith Crosby

Water Bureau Manager

Oil, Gas, and Minerals Division

Office 505.827.5849

Fax 505-827-4739



New Mexico State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501 -Or-P.O. Box 1148 Santa Fe, NM 87504-1148

fcrosby@slo.state.nm.us

.....

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From: Jenni Usher < jenni@permianws.com>
Sent: Tuesday, January 10, 2023 1:58 PM

To: Crosby, Faith <<u>fcrosby@slo.state.nm.us</u>>; Mann, Ryan <<u>rmann@slo.state.nm.us</u>>; Gallegos, David <<u>dgallegos@slo.state.nm.us</u>>; Cory, EMNRD Smith <<u>cory.smith@state.nm.us</u>>; <u>dmcinturff@dufrane.com</u>; Gonzales, Clair <<u>Clair.Gonzales@tetratech.com</u>>; Josh Brooks <<u>josh@permianws.com</u>>

Subject: [EXTERNAL] Re: PWS - Kaiser SWD Confirmation Sampling _ Phase II_UPDATE-12-29-2022

Hi, just keeping this email alive and not buried in everyone's inbox.

-Jenni

From: Jenni Usher

Sent: Wednesday, January 4, 2023 10:49 AM

To: 'Crosby, Faith' <<u>fcrosby@slo.state.nm.us</u>>; 'Mann, Ryan' <<u>rmann@slo.state.nm.us</u>>; Gallegos, David <<u>dgallegos@slo.state.nm.us</u>>; Cory, EMNRD Smith <<u>cory.smith@state.nm.us</u>>; <u>dmcinturff@dufrane.com</u> <<u>dmcinturff@dufrane.com</u>>; Gonzales, Clair <<u>Clair.Gonzales@tetratech.com</u>>; Josh Brooks <<u>josh@permianws.com</u>>

Subject: PWS - Kaiser SWD Confirmation Sampling _ Phase II_UPDATE-12-29-2022

Hi everyone!

I'm forwarding updated lab results from Clair on the recent samples obtained from the SW corner tank battery area, the last portion of the area within the Kaiser lease. I've included some of her notes as well.

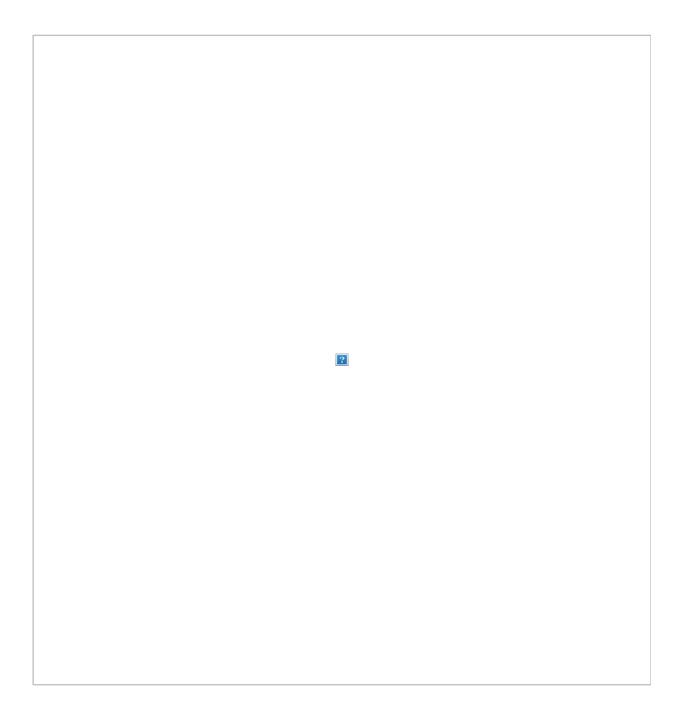
Faith, Dusty and I were on the call today and discussed these samples. I still need to summarize the meeting minutes, but we wanted to get these results circulated for everyone's review to try to avoid any hold-ups in the field for Dusty.

Unfortunately, it looks like the top 4' still exceeded for chlorides.. although not by a lot. Basically, all of the sidewall samples in the top 4' exceeded for chlorides – everything else was good. Now, SW-79 just *barely* exceeded with a concentration of 613 mg/kg. That may be able to be left as is.

I'm not sure how Cory will feel about 1,000 mg/kg in the top 4' in the areas of SW-75, SW-76 and SW-83. Below is a screenshot of where those areas are for reference.

I think we can ask for a variance for the south without issue; we did get that H-7 sample (which was like 26 mg/kg chlorides) so it is horizontally delineated.

Then that would leave us with SW-75 and SW-83 going to the east.



We're essentially up against the Southern Lease Line. There is about 10' further until we hit the Centennial Lease Line to the East. Dusty will need to think about how he could excavate further with the current existing hole and room left to navigate equipment around the lease. He'll get with Clair on sampling options.

On today's call we wondered if digging deeper or vertically delineating out East would be a consideration. Cory could advise on if deferral or variances would be accepted.

I hope this email serves to get us all on the same page with the current situation. Experts, please review and weigh in on how we can take care of this!

PS. I'm unable to attend an 8 am meeting on 1/18. I could probably do 7:30 am if people are up early, or we may propose 1/25 or a recorded 1/18 meeting. Just head's up!

Thank you,
Jenni Usher
Regulatory Analyst
512-820-8772 mobile
jenni@permianws.com



Appendix B

Work Plan (2020)



2020-04-07 Plan Recommendations: The proposed timeline for the plan is 90 days.

The max TPH discovered was 34, 860 mg/kg, max Cl⁻ 30,000 mg/kg and BTEX at 348 mg/kg. Contamination depths have reached at least 25'. Contamination was found in all areas in and around the pad and berm as well as the offsite areas tested.

Tasks:

- Remove all tank batteries, surface and buried pipelines, off-loading station and extraneous debris, including tanks in the pasture area.
- Any items that will be re-used may not be stored on site.
- Excavate the remediation area (inside dashed red line) to 15'. This shall be the new location of the replacement tank battery.
- Requirements for final samples:
 - o Floor samples to be taken in same location as previous samples.
 - o No less than 3 each cardinal sidewall samples around the perimeter.
 - Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻ and BTEX
 ND.
 - PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill pit and excavations with clean, non-blended soils and place a clay membrane/bentonite mat at 4'-5'.

Timeline:

- All equipment to be removed within 45 days.
- Excavation and final sampling to be completed within 45 days.
- Backfill and clay membrane liner placement to be completed within 60 days.

Once Phase 1 is complete, PWS may construct a new tank battery with falcon-type liner, receive a written acceptance of installation, and re-commence commence injection for a period of 6 months. SLO will review activities for compliance with all environmental and easement requirements.



Phase 1 Work Plan Tasks Site Map

Kaiser State SWD #1

Phase 1 Work Plan Tasks:

____ Sit

Site outline

Phase 1 remediation area

- 1. Remove all equipment & debris on site.
- 2. Excavate Phase 1 remediation area to 15'.
 - a) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 4 7,000 mg/kg CT
 - BTEX NO.
- Backfill non-blended soils and place a clay membrane/bentonite mat at 4'-5'.

**All three stages to take no more than 45 days. **



MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.
- **Plan may be subject to change depending on data from soil and water samples.**
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - . 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
 8TEX ND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- anaplen may change subject to sample date from soil and seater testing.***



		SITE INFORMATION									
		Report Type: Revised Work Plan									
General Site Info	ormation:										
Site:		Kaiser State SWD									
Company:		Permian Wat	Permian Water Solutions								
Section, Townsh	nip and Range	Unit F	Jnit F Sec. 13 T 21S R 34E								
Lease Number:		API No. 30-02	API No. 30-025-02538								
County:		Lea									
GPS:			32.48086			-103.42566					
Surface Owner:			State								
Directions:		HWY 176 for a	pproximately 0.25	miles, turn s	2 (San Simon Rd) in rural Lea County, travel west on south onto lease road and continue for 0.25 miles to 0.30 miles to the location on the north side of the						
Release Data:		1RP-3512		1RP-3621		1RP-4305					
Date Released:		1/14/2015		4/24/2015		5/17/2016					
Type Release:		Produced Wa	ater	Produced	Water	Produced Water					
Source of Contan	nination:	Vac Truck		Truck hit lo	oad line	Lightning Strike					
Fluid Released:		20 bbls		100 bbls		1050 bbls					
Fluids Recovered	l:	20 bbls		100 bbls		1050 bbls					
Release Data:		1RP-4525		1RP-4855		1RP-4960					
Date Released:		Unknown		10/18/201		1/31/2018					
Type Release:		Produced Wa	ater		Water & Oil	Produced Water					
Source of Contamination:		Frac Tanks		Unkown		Seal on Pump					
Fluid Released:		Unknown		50 bbls		20 bbls					
Fluids Recovered:		0 bbls		0 bbls wat		10 bbls					
Release Data:		1RP-5139		1RP-5149		1RP-5163					
Date Released:		6/20/2018		8/6/2018		8/17/2018					
Type Release:		Produced Wa	ater	Produced	Water	Produced Water					
Source of Contan	nination:	Wellhead		Valve		Unload Tanks					
Fluid Released:	,	150 bbls		200 bbls		500 bbls					
Fluids Recovered	1:	150 bbls		200 bbls		500 bbls					
Release Data:		1RP-5273									
Date Released:		11/2/2018									
Type Release:	nination:	Oil	.,								
Source of Contamination:		Tank Overflov	W								
Fluid Released: Fluids Recovered:		20 bbls 16 bbls									
Official Commun		10 0010		l							
Name:	James Corbitt				Clair Gonzale	ae					
		lutions				55					
Company: Address:	Permian Water So 415 W. Wall St.	10110115			Tetra Tech 901 West Wa	all Stroot					
AUUI ESS.						ali Street					
0"	Suite 320				Suite 100						
City:	Midland, TX 79701				Midland, Tex						
Phone number:	(432) 305-4124				(432) 687-81	10					
Fax:											
Email:	james@permian	ws.com			Clair.Gonza	les@tetratech.com					

Site Characterization	
Depth to Groundwater:	Greater than 100'
Karst Potential:	Low

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	2,500 mg/kg	20,000 mg/kg							



January 27, 2020

New Mexico State Land Office 310 Old Santa Fe Trail P.O. Box 1148 Santa Fe, New Mexico 87504 Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico, 88240

Revised Work Plan for the Permian Water Solutions, LLC., Kaiser State SWD, Unit Re: F, Section 13, Township 21 South, Range 34 East, Lea County, New Mexico.

Tetra Tech, Inc. (Tetra Tech) was contacted by Permian Water Solutions, LLC. (Permian Water Solutions) to assess the impacted areas at the Kaiser State SWD, Unit F, Section 13, Township 21 South, Range 34 East, Lea County, New Mexico. The site coordinates are 32.48086°, -103.42566°. The site location is shown on Figures 1 and 2.

Background

Ten releases occurred at the site impacting the pad area and inside the facility berms. The initial C-141 Forms are included in Appendix A.

- **1RP-3512:** According to the State of New Mexico C-141 Initial Report submitted by Pyote Water Systems, LLC the release was discovered on January 14, 2015 and released approximately 20 bbls of produced water due to a vac truck over filling the sumps. Approximately 20 bbls of fluids were recovered.
- 1RP-3621: According to the State of New Mexico C-141 Initial Report submitted by Pyote Water Systems, LLC the release was discovered on April 24, 2015 and released approximately 100 barrels of produced water due to a truck hitting a load line. Approximately 100 bbls of fluids were recovered.
- 1RP-4305: According to the State of New Mexico C-141 Initial Report submitted by Pyote Water Systems, LLC the release was discovered on May 17, 2016 and released approximately 1050 barrels of produced water due to a lightning strike. Approximately 1050 bbls of fluids were recovered.
- **1RP-4525:** According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD the release was due to a leak in the frac tanks used during facility reconstruction after the lightning strike. An unknown volume of fluids was released, and none were recovered.



- 1RP-4855: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD the release was discovered on October 18, 2017 and released approximately 50 bbls of produced water and crude oil within the berm due to an unknown cause. None of the fluids were recovered.
- 1RP-4960: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD the release was discovered on January 31, 2018 and released approximately 20 bbls of produced water due to a failed seal on a pump. Vacuum trucks were dispatched to remove all free-standing fluids, recovering approximately 10 bbls of fluids.
- 1RP-5139: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD the release was discovered on June 20, 2018 and released approximately 150 bbls of produced water due to a nipple on the wellhead. Approximately 150 bbls of fluids were recovered.
- 1RP-5149: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD the release was discovered on August 6, 2018 and released approximately 200 bbls of produced water due to a valve misfunction. Approximately 200 bbls of fluids were recovered.
- 1RP-5163: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD the release was discovered on August 17, 2018 and released approximately 500 bbls of produced water due to a valve misfunction, causing tanks to over flow into the lined berm. Approximately 500 bbls of fluids were recovered.
- 1RP-5273: According to the State of New Mexico C-141 Initial Report submitted by Permian Water Solutions, LLC the release was discovered November 2, 2018 and released approximately 20 bbls of crude oil due to an oil skim tank overflowing into the berm. Approximately 16 bbls of fluids were recovered.

Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. Additionally, the site is located in a low karst potential area. The nearest well is listed on the USGS Water Information System database in Section 13, approximately ½ mile south of the site, and has a reported depth to groundwater of 101' below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is between 100' and 125' below surface. The groundwater data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with 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. A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The proposed RRAL for benzene was determined to be 10 milligrams per kilogram (mg/kg) and 50 mg/kg for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 2,500 mg/kg (GRO + DRO + MRO) or 1,000 mg/kg (GRO + DRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 20,000 mg/kg.

Soil Assessment and Analytical Results

Initial Assessment

Between May 7th and May 14th, 2019, Tetra Tech personnel were onsite to sample the facility areas. A total of thirty-one (31) sample points were installed to total depths ranging from 0-1' and 39'-40' below surface. Sample points SP-1, SP-2, SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10, SP-11, SP-12, SP-14, SP-15, SP-16, SP-27, SP-29, SP-30, SP-31, and SP-32 were installed using a truck mounted air rotary rig. Due to access and safety issues, sample points SP-3, SP-13, SP-17, SP-18, SP-19, SP-20, SP-21, SP-22, SP-23, SP-24, SP-25, and SP-26 were installed using a stainless-steel hand auger. Selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The drilling logs are shown in Appendix C. The sample locations are shown on Figure 3.

Pad and Facility Areas

Referring to Table 1, sample points SP-1 through SP-16 and SP-27 through SP-32 did not show any benzene or total BTEX concentrations above the RRALs. However, sample points SP-2, SP-5, and SP-27 showed TPH concentrations above the RRALs with TPH highs of 20,034 mg/kg, 18,710 mg/kg, and 6,850 mg/kg at 6'-7' below surface, respectively. The TPH concentrations then declined with depth to below the RRALs at depths ranging from 9'-10' and 19'-20' below surface. None of the other sample points on the pad and facility areas showed TPH concentrations above the thresholds.

Additionally, the area of sample point (SP-8) showed a chloride concentration above the 20,000 mg/kg threshold at 0-1' below surface, which declined with depth and showed a bottom hole concentration of 96.0 mg/kg at 29'-30' below surface. None of the remaining sample points on the pad and facility areas showed chloride concentrations above the RRAL.



Bermed Areas

The areas of sample points (SP-17 through SP-26), which were collected inside the bermed facilities, were installed to total depths ranging from 0-1' and 5-5.5' below surface. Deeper samples could not be collected due to a dense formation in the area and the truck mounted air rotary rig could not safely access these areas for deeper samples.

Referring to Table 1, the area of sample point (SP-22) did not show any benzene, total BTEX, TPH, or chloride concentrations above the RRALs. However, the areas of sample points (SP-17, SP-18, SP-19, SP-20, SP-21, SP-23, SP-24, SP-25, and SP-26) showed elevated TPH concentrations to the soils. The areas of sample points (SP-17, SP-21, and SP-25) showed TPH concentrations that declined with depth to below the thresholds at 2-3' below surface. The remaining areas were not vertically defined for TPH.

Additionally, the area of sample point (SP-20) showed benzene and total BTEX concentrations above the RRALs which were not vertically defined at 5-5.5' below surface. None of the remaining sample points inside the bermed facilities showed benzene concentrations above the 10 mg/kg threshold. In addition, the areas of sample points (SP-17, SP-21, SP-24 and SP-26) did not show any total BTEX concentrations above the RRALs. However, the areas of (SP-18, SP-19, SP-21, SP-23, and SP-25) showed total BTEX concentrations above the RRALs and the areas of sample points (SP-19, SP-20, and SP-23) were not vertically defined.

None of the samples collected at sample points (SP-17 through SP-26) showed chloride concentrations above the 20,000 mg/kg threshold.

Additional Assessment

As requested by NMSLO, Permian Water Solutions removed the tanks and equipment from the two onsite facilities to allow access for vertical delineation. Tetra Tech personnel returned to the site on October 21-22, 2019, in order to vertically delineate the areas of SP-17 (BH-17), SP-18 (BH-18), SP-19 (BH-19), SP-20 (BH-20), SP-23 (BH-23), SP-24 (BH-24), SP-25 (BH-25), and SP-26 (BH-26) as well as to install four additional soil borings (BH-33, BH-34, BH-35, and BH-36) beneath the tanks of the eastern facility. The soil borings were installed using a truck mounted air rotary rig to total depths ranging from 19'-20' and 54'-55' below surface. Selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3

Referring to Table 1, none of the samples collected at any of the boreholes showed any benzene or chloride concentrations above the RRALs. Additionally, none of the samples collected at BH-17, BH-33, or BH-35 showed total BTEX or TPH concentrations above the RRALs.



The area of BH-36 showed a TPH high concentration of 9,630 mg/kg at 0-1', which declined with depth to 710 mg/kg at 2-3' below surface. The areas of BH-18, BH-24, and BH-34 showed TPH high concentrations of 12,700 mg/kg at 0-1', 6,400 mg/kg at 2-3', and 10,200 mg/kg at 0-1', respectively, which then declined with depth to below the RRALs at 4'-5' below surface. The areas of BH-19, BH-23, BH-25, and BH-26 showed elevated TPH concentrations to depths of 4-5', before declining with depth to below the RRALs at 6-7' below surface.

The areas of BH- 18, BH-19, BH-23, BH-24, BH-26, BH-34, and BH-36 did not show any total BTEX concentrations above the RRALs. However, the area of BH-20 showed a BTEX high concentration of 119 mg/kg at 6-7', which declined with depth to 16.1 mg/kg at 9'-10' below surface and the area of BH-25 showed a BTEX high of 194 mg/kg at 4-5' which declined with depth to below the laboratory reporting limit at 6-7' below surface.

At the request of NMSLO, the tanks located in the western berm were removed and Tetra Tech returned to the site on January 13, 2020 to install 2 additional bore holes (SP-37 and SP-38) beneath the previous location of the tanks. The soil borings were installed using a truck mounted air rotary rig to total depths ranging from 24'-25' and 34'-35' below surface. All soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3

Referring to Table 1, none of the samples collected showed benzene concentrations above the RRAL. Additionally, none of the samples collected in the areas of SP-37 and SP-38 showed chloride concentrations above the RRAL, with chloride high concentrations of 4,810 mg/kg (4'-5') and 6,130 mg/kg (2'-3'), respectively. The chloride concentrations then decreased with depth to below 600 mg/kg at 14'-15' (SP-37) and 19'-20' (SP-38). However, both areas showed TPH highs of 6,260 mg/kg (SP-37) and 7,340 mg/kg (SP-38) at 4'-5, which then decreased with depth to below the RRALs at 6'-7' below surface. Additionally, BTEX highs of 178 mg/kg (SP-37) and 51.0 mg/kg (SP-38) were detected at 4'-5', which decreased to below the RRAL at 6'-7' below surface.

Work Plan

Based on the laboratory data, Permian Water Solutions proposes to excavate the areas as shown on Figure 4 and highlighted (green) on Table 1. The areas of sample points SP-1, SP-3, SP-6, SP-7, SP-9, SP-10, SP-21, and SP-30 will be excavated to 6" to 1.0' below surface to address the surficial impact. The areas of sample points SP-2, SP-8, and SP-27 will be excavated to approximately 6'-7' below surface and the area of sample point SP-5 will be excavated to approximately 14-15' below surface. Additionally, as requested by NMSLO, the area of SP-4 will be excavated to 4-5' below surface.

To address the areas inside the bermed facilities, Permian Water Solutions proposes to excavate the areas of sample points SP-17, SP-18, SP-24, and SP-34 to approximately 3'



below surface, the areas of SP-19, SP-23, SP-25, SP-26, SP-36, SP-37, and SP-38 to approximately 5', and the area of SP-20 to approximately 10' below surface.

Once excavated, composite bottom hole and sidewall confirmation samples will be collected every 200 square feet, to be representative of the area and to confirm proper removal of the impacted soils. The areas will then be backfilled with clean material to surface grade, including the area of SP-3. Permian Water Solutions estimates approximately 15,200 cubic yards will be excavated, and the remediation to be implemented 90 days after the work plan is approved by both the NMSLO and NMOCD.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safely concerns for onsite personnel. As such, Permian Water Solutions will excavate the impacted soils to the maximum extent practicable.

Conclusion

Once the remediation activities are completed, a closure report will be prepared for NMOCD and NMSLO approval. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

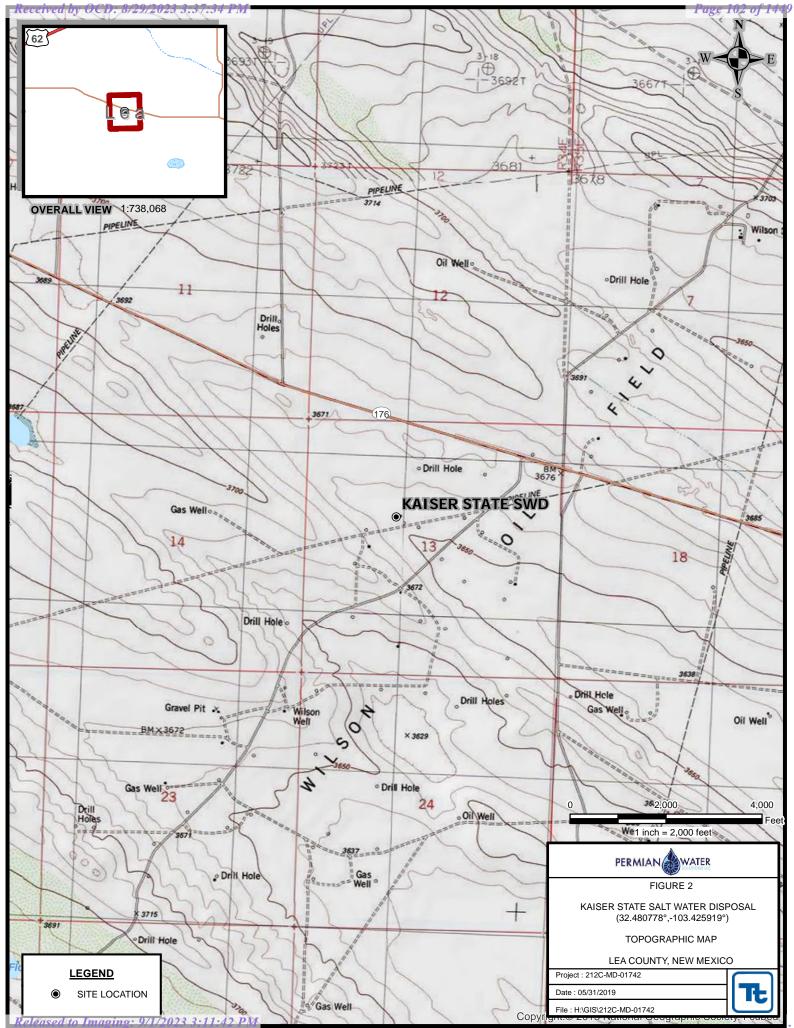
Respectfully submitted, TETRA TECH

Clair Gonzales, P.G.,

Project Manager

Figures





EQUIPMENT

Source: "New Mexico". $32^{\circ}28'50.80"N$, $103^{\circ}25'33.31"W$. Google Earth. November 02,2017. November 7, 2019.



Approximate Scale in Feet





FIGURE

Tables

Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

	Sample	Sample	Soil	Status	TPH (mg/kg)				Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-1	5/7/2019	0-1	Х	Removed	<10.0	174	77.3	251	<0.050	<0.050	<0.050	<0.0150	<0.300	5,560
	"	2-3	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	1,650
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	1,330
	"	6-7	Х		-	-	-	-	-	-	-	-	-	864
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	656
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	496
	"	19-20	Χ		-	-	-	-	-	-	-	-	-	576
	"	24-25	Χ		-	-	-	-	-	-	-	-	-	320
	"	29-30	Χ		-	-	-	-	-	-	-	-	-	144
		34-35	Х		-	-	-	-	-	-	-	-	-	144
SP-2	5/7/2019	0-1	Χ		239	2,970	553	3,523	<0.050	0.372	0.760	6.36	7.49	6,530
	"	2-3	Χ		58.6	638	128	825	<0.050	0.068	0.193	1.63	1.89	4,960
	"	4-5	Χ		<50.0	346	248	594	<0.050	<0.050	<0.050	<0.0150	<0.300	2,200
	"	6-7	Χ		394	14,900	4,740	20,034	<0.050	0.068	0.717	1.67	2.46	2,160
	"	9-10	Χ		10.4	592	221	823	<0.050	< 0.050	<0.050	<0.0150	<0.300	2,480
	"	14-15	Х		-	-	-	-	-	-	-	-	-	4,640
	"	19-20	Χ		-	-	-	-	-	-	-	-	-	1,100
	"	24-25	Х		-	-	-	-	-	-	-	-	-	448
	- "	29-30	Х		-	-	-	-	-	-	-	-	-	240
		34-35	Х		-	-	-	-	-	-	-	-	-	240
SP-3	5/8/2019	0-1	Χ		<10.0	113	35.2	148	<0.050	<0.050	<0.050	<0.0150	<0.300	3,040
	5/13/2019	1-1.5	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	240
	"	2-2.5	Χ		-	-	-	-	-	-	-	-	-	240
	"	3-3.5	Χ		-	-	-	-	-	-	-	-	-	160
	"	4-4.5	Χ		-	-	-	-	-	-	-	-	-	160
	"	5-5.5	Χ		-	-	-	-	-	-	-	-	-	240
SP-4	5/7/2019	0-1	Χ		<10.0	11.6	<10.0	11.6	<0.050	<0.050	<0.050	<0.0150	<0.300	1,680
	"	2-3	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	1,170
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	928
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	624
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	464
	"	14-15	Х		-	-	-	-	-	<u> </u>	-	-		400
SP-5	5/7/2019	0-1	Χ		<10.0	91.4	56.8	148	<0.050	<0.050	<0.050	<0.0150	<0.300	5,040
	"	2-3	Χ		<50.0	522	330	852	< 0.050	<0.050	<0.050	<0.0150	<0.300	784
	"	4-5	Χ		<10.0	401	270	671	<0.050	<0.050	<0.050	<0.0150	<0.300	368
		6-7	Χ		400	13,800	4,510	18,710	<0.050	0.468	1.35	2.49	4.31	224
	"	9-10	Х		174	7,720	2,550	10,444	<0.050	0.175	0.429	1.25	1.85	224
	"	14-15	Χ		11.2	1,150	287	1,448	<0.050	<0.050	<0.050	<0.0150	<0.300	240
	"	19-20	Х		<10.0	945	239	1,184	<0.050	<0.050	<0.050	<0.0150	<0.300	368
	"	24-25	Х		<10.0	609	145	754	<0.050	<0.050	<0.050	<0.0150	<0.300	288
		29-30	X		-	-	-	-	-	-	-	-	-	64.0
		34-35	Х		-	-	-	-	-	-	-	-	-	96.0

Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

	Sample	Sample	Soil Status		TPH (mg/kg)				Benzene	Toluene	Toluene Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-6	5/7/2019	0-1	X	Kemoveu	<10.0	106	46.2	152	<0.050	<0.050	<0.050	<0.0150	<0.300	5,520
	"	2-3	Х		<10.0	120	51.6	172	<0.050	<0.050	<0.050	<0.0150	<0.300	2,040
ļ	"	4-5	Х		-	-	-	-	-	-	-	-	-	640
	"	6-7	Х		-	-	-	-	-	-	-	-	-	640
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	752
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	576
	"	19-20	Х		-	-	-	-	-	-	-	-	-	432
SP-7	5/7/2019	0-1	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	3,920
	"	2-3	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	<0.050	<0.0150	<0.300	1,140
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	1,410
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	672
	"	9-10	Х		-	-	-	-	-	-	-	-	-	768
	"	14-15	Х		-	-	-	-	-	-	-	-	-	880
	"	19-20	Х		-	-	-	-	-	-	-	-	-	352
		24-25	Х		-	-	-	-	-	-	-	-	-	128
SP-8	5/7/2019	0-1	Χ		<10.0	284	61.1	345	<0.050	0.121	0.136	0.382	0.639	30,000
	"	2-3	Χ		<10.0	86.3	<10.0	86.3	<0.050	<0.050	<0.050	<0.0150	<0.300	10,200
	"	4-5	Х		-	-	-	-	-	-	-	-	-	12,000
	"	6-7	Х		-	-	-	-	-	-	-	-	-	10,400
	"	9-10	Х		-	-	-	-	-	-	-	-	-	7,200
	- "	14-15	X		-	-	-	-	-	-	-	-	-	4,400
	- "	19-20	X		-	-	-	-	-	-	-	-	-	2,360
		24-25	X		-	-	-	-	-	-	-	-	-	304
	<u> </u>	29-30	Х		-	-	-	-	-	-	-	-	-	96.0
SP-9	5/7/2019	0-1	Х		<10.0	192	118	310	<0.050	<0.050	<0.050	<0.0150	<0.300	8,660
	"	2-3	Х		<10.0	10.9	<10.0	10.9	<0.050	<0.050	<0.050	<0.0150	<0.300	2,320
	- "	4-5	X		-	-	-	-	-	-	-	-	-	2,760
	- "	6-7	X		-	-	-	-	-	-	-	-	-	4,400
		9-10 14-15	X		-	-	-	-	-	-	-	-	-	3,760 4,800
		19-20	X		-	-	-	-	-	-	-	-	-	4,560
	"	24-25	X		-		_		_	_	-	-		1,230
	"	29-30	X		-	_	_	_	_	-	_	_	_	528
	"	34-35	X		-	-	-	-	-	-	-	-	-	832
SP-10	5/8/2019	0-1	Х	l	-10.0	-10.0	<10.0	<10.0	-0.050	-0.0E0	-0.050	-0.150	-0.200	1 200
3r-10	5/6/2019	0-1 2-3	X		<10.0	<10.0 <10.0	<10.0	<10.0	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	1,280 272
	"	4-5	X		-				-	-			-	176
00.44				l I										l
SP-11	5/8/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
	"	2-3	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
		4-5	X		-	-	-	-	-	-	-	-	-	192
	"	6-7 9-10	X		-	-	-	-	-	-	-	-	-	96 112
		9-10			-	-		-	-	-	<u> </u>			112

Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

	Sample	Sample	Soil Status		TPH (mg/kg)			Benzene	Toluene	e Ethlybenzene	Xylene	Total BTEX	Chloride	
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-12	5/8/2019	0-1	Х	Kemovea	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,040
	"	2-3	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
	II .	4-5	Χ		-	-	-	-	-	-	-	-	-	800
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	304
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	128
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	208
SP13	5/8/2019	0-1	Х		<10.0	159	52.8	212	<0.050	<0.050	<0.050	<0.150	<0.300	288
SP-14	5/8/2019	0-1	Х		<10.0	504	332	836	<0.050	<0.050	<0.050	<0.150	<0.300	640
	"	2-3	Χ		<10.0	100	55.6	156	<0.050	< 0.050	<0.050	<0.150	<0.300	544
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	464
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	384
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	288
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	544
	"	19-20	Χ		-	-	-	-	-	-	-	-	-	1,960
	"	24-25	Χ		-	-	-	-	-	-	-	-	-	688
	"	29-30	Х		-	-	-	-	-	-	-	-	-	208
		34-35	Х		-	-	-	-	-	-	-	-	-	80.0
SP-15	5/8/2019	0-1	Χ		<10.0	66.4	40.6	107	<0.050	< 0.050	<0.050	<0.150	<0.300	480
	"	2-3	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	< 0.050	<0.050	<0.150	<0.300	672
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	320
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	176
SP-16	5/8/2019	0-1	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
	"	2-3	Χ		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	<0.050	<0.150	<0.300	1,410
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	1,570
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	1,330
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	1,170
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	288
	"	19-20	Χ		-	-	-	-	-	-	-	-	-	816
SP-17	5/8/2019	0-1	Χ		2,130	11,200	2,010	15,340	<0.500	1.85	4.81	42.6	49.3	7,040
Inside Berm	II .	2-3	Χ		16.7	463	78.3	<10.0	<0.050	<0.050	<0.050	0.214	<0.300	11,200
	"	3-4	Χ		-	-	-	-	-	-	-	-	-	9,600
	5/13/2019	4-4.5	Χ		<10.0	622	75.3	697	<0.050	0.076	<0.050	0.184	<0.300	3,760
	"	5-5.5	Χ		<10.0	145	<10.0	145	< 0.050	<0.050	<0.050	<0.150	<0.300	9,680
BH-17	10/21/2019	0-1	Χ		<50.3	<10.0	<10.0	<10.0	<0.00101	<0.00101	<0.00101	0.00522	0.00522	881
	"	2-3	Χ		<49.9	<10.0	<10.0	<10.0	<0.00101	<0.00101	<0.00101	0.0122	0.0122	1,180
	"	4-5	Х		<50.1	<50.1	<50.1	<50.1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	1,110
	"	6-7	Χ		<49.8	<49.8	<49.8	<49.8	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	2,270
	"	9-10	Χ		<50.1	<50.1	<50.1	<50.1	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	1,050
	"	14-15	Χ		<50.1	<50.1	<50.1	<50.1	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	1,520
	"	19-20	Χ		<50.2	<50.2	<50.2	<50.2	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	1,710
	"	24-25	Χ		<49.8	<49.8	<49.8	<49.8	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	937
	"	29-30	Χ		<50.2	<50.2	<50.2	<50.2	< 0.00100	<0.00100	< 0.00100	< 0.00100	< 0.00100	404

Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

	Sample	Sample	Soil	Status			Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride		
Sample ID	Date	Depth (ft)			CDO			Tatal	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-18	5/7/2019	0-1	In-Situ X	Removed	1,950	8,290	1,320	11,560	0.883	20.6	9.44	60.9	91.8	9,730
Inside Berm	"	2-3	X		177	1,990	506	2,673	<0.050	0.124	0.430	1.06	1.61	5,520
BH-18	10/21/2019	0-1	Х		<251	11,100	1,640	12,700	<0.101	<0.101	0.196	0.965	1.16	7,190
	"	2-3	Х		444	6,210	747	7,400	<0.100	0.279	0.594	1.73	2.61	6,180
	"	4-5	Х		<49.9	183	<49.9	183	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	8,280
	"	6-7	Х		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	5,540
	"	9-10	Χ		<50.3	<50.3	<50.3	<50.3	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	3,010
	"	14-15	Х		<49.8	<49.8	<49.8	<49.8	<0.000984	<0.000984	<0.000984	<0.000984	<0.000984	1,610
	"	19-20	Χ		<50.0	<50.0	<50.0	<50.0	<0.000986	<0.000986	<0.000986	<0.000986	<0.000986	4,720
	"	24-25	Χ		<49.8	<49.8	<49.8	<49.8	<0.000986	<0.000986	<0.000986	0.00348	0.00348	2,630
	"	29-30	Х		<49.7	<49.7	<49.7	<49.7	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	1,250
	"	34-35	Χ		<50.0	<50.0	<50.0	<50.0	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	1,120
	"	39-40	Χ		<50.1	<50.1	<50.1	<50.1	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	772
	"	44-45	Х		<50.0	<50.0	<50.0	<50.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	633
	"	49-50	Х		<49.9	<49.9	<49.9	<49.9	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	388
SP-19	5/8/2019	0-1	Х		2,980	14,800	2,930	20,710	3.95	46.4	9.53	71.3	131	6,560
Inside Berm	"	2-3	Χ		64.8	786	176	1,027	<0.050	0.143	0.191	0.451	0.784	12,800
	5/13/2019	4-4.5	Х		2,270	7,380	805	10,455	2.21	48.5	36.9	131	219	4,120
BH-19	10/22/2019	0-1	Х		474	8,050	729	9,250	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	4,160
	"	2-3	X		97.5	2,900	253	3,250	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	9,700
	"	4-5	Х		87.1	2,090	186	2,360	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	10,200
	"	6-7	Х		<50.2	<50.2	<50.2	<50.2	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	7,660
	"	9-10	Х		<49.9	<49.9	<49.9	<49.9	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	10,300
	"	14-15	X		<49.8	<49.8	<49.8	<49.8	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	9,650
	"	19-20	Χ		<49.8	<49.8	<49.8	<49.8	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	11,500
	"	24-25	Χ		<50.0	<50.0	<50.0	<50.0	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	811
	"	29-30	Χ		<50.0	<50.0	<50.0	<50.0	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	502
	"	34-35	Х		<49.8	<49.8	<49.8	<49.8	<0.000982	0.00182	<0.000982	<0.000982	0.00182	171
	"	39-40	Х		<49.9	<49.9	<49.9	<49.9	<0.000986	<0.000986	<0.000986	<0.000986	<0.000986	495
SP-20	5/8/2019	0-1	Χ		3,520	25,300	6,040	34,860	21.7	80.8	17.3	61.2	181	2,520
Inside Berm	"	2-3	Х		2,930	13,400	2,870	19,200	15.3	73.7	15.0	101	205	1,630
	5/13/2019	4-4.5	Х		3,900	11,300	1,620	16,820	15.3	102	49.2	162	329	1,550
	"	5-5.5	Х		4,390	11,300	1,390	17,080	18.0	120	56.6	153	348	1,600
BH-20	10/22/2019	0-1	Х		302	3,560	339	4,200	0.00241	0.0227	0.0126	0.0558	0.0935	2,680
	"	2-3	Х		821	4,840	396	6,060	0.5700	7.56	4.92	24.4	37.4	5,240
	"	4-5	Х		1,270	4,990	395	6,660	2.00	22.2	13.0	51.7	88.9	2,300
	"	6-7	Х		2,110	6,650	588	9,350	3.32	34.0	18.5	63.2	119	218
	"	9-10	Χ		388	2,710	189	3,290	<0.0998	2.33	3.07	10.7	16.1	988
	"	14-15	Х		<50.2	365	<50.2	365	<0.00101	<0.00101	0.0126	0.0659	0.0785	3,800
	"	19-20	Х		<50.3	326	57.1	385	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	1,350
	"	24-25	Х		<50.1	62.8	<50.1	62.8	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	199
	"	29-30	Х		<50.0	72.7	<50.0	72.7	<0.00101	<0.00101	<0.00101	0.0404	0.0404	208

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Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

Sample ID	Sample	Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-21	5/8/2019	0-1	Χ		993	10,500	2,100	13,593	0.0740	2.12	2.05	14.3	18.5	2,240
Inside Berm	"	2-3	Χ		10.6	445	109	565	<0.050	<0.050	<0.050	0.241	<0.300	1,100
	5/13/2019	4-4.5	Х		<10.0	725	57.2	782	<0.050	0.076	<0.050	<0.150	<0.300	3,120
		5-5.5	Χ		<10.0	215	<10.0	215	<0.050	<0.050	<0.050	<0.150	<0.300	2,200
SP-22	5/8/2019	0-1	Х		<10.0	64.0	52.9	117	<0.050	<0.050	<0.050	<0.150	<0.300	880
Inside Berm	"	2-3	Χ		<10.0	32.0	16.4	48.4	<0.050	<0.050	<0.050	<0.150	<0.300	752
	5/13/2019	3-3.5	Χ		-	-	-	-	-	-	ı	-	-	720
		4-4.5	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	848
SP-23	5/8/2019	0-1	X		593	12,800	2,390	15,190	<0.050	1.03	1.03	2.56	4.62	880
Inside Berm	5/14/2019	1-1.5	Χ		2,180	7,770	1,050	11,000	6.76	71.1	40.4	129	247	464
	"	2-2.5	X		97.7	662	48.8	809	1.06	5.98	5.38	17.6	30.0	3,680
	=	3-3.5	Χ		902	3,150	521	4,573	7.38	57.8	31.7	100	197	1,060
	"	4-4.5	Χ		2,760	9,000	1,170	12,930	14.2	112	50.7	150	327	2,760
BH-23	10/22/2019	0-1	Х		407	3,250	258	3,920	0.0125	0.0446	0.0375	1.04	1.14	372
	"	2-3	Χ		664	3,060	209	3,930	0.0152	0.0333	0.0821	0.355	0.486	178
	"	4-5	Χ		1,050	4,150	338	5,540	0.394	0.374	0.232	1.02	2.02	55.9
	"	6-7	Χ		74.5	742	76.9	893	0.0108	0.307	0.400	1.02	1.73	39.2
	"	9-10	Х		<49.9	<49.9	<49.9	<49.9	0.00949	0.0698	0.138	0.392	0.609	359
	=	14-15	Х		63.9	672	78.3	814	0.00230	0.0821	0.128	0.491	0.703	3,960
	=	19-20	Χ		<50.2	<50.2	<50.2	<50.2	<0.000994	0.00456	0.00189	0.00794	0.0144	6,740
	=	24-25	Χ		<50.3	<50.3	<50.3	<50.3	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	3,200
		29-30	Χ		<50.0	<50.0	<50.0	<50.0	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	2,370
	"	34-35	Χ		<49.9	<49.9	<49.9	<49.9	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	1,330
	"	39-40	Χ		<50.1	<50.1	<50.1	<50.1	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	1,350
	-	44-45	Χ		<50.0	<50.0	<50.0	<50.0	<0.000986	<0.000986	<0.000986	<0.000986	<0.000986	941
	"	49-50	Χ		<50.1	<50.1	<50.1	<50.1	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	362
	"	54-55	Х		<50.0	<50.0	<50.0	<50.0	0.00260	0.00806	0.00849	0.0294	0.0486	286
SP-24 (Inside Berm)	5/8/2019	0-1	Χ		595	11,000	2,060	13,060	1.49	12.1	2.69	16.2	32.5	1,060
BH-24	10/22/2019	0-1	Х		561	4,810	411	5,780	0.00859	0.8070	1.32	5.05	7.19	598
	=	2-3	Χ		1,160	4,830	405	6,400	0.380	7.47	5.41	14.2	27.5	722
	=	4-5	Х		92.8	827	119	1,040	0.0189	0.335	0.266	0.986	1.61	297
		6-7	Х		<49.8	220	67	287	<0.000994	0.00366	0.00411	0.0128	0.0206	4,460
		9-10	Χ		<49.8	166	<49.8	166	<0.000998	0.00218	0.00766	0.0276	0.0374	3,530
	=	14-15	Χ		<49.8	289	<49.8	289	<0.000994	<0.000994	0.00849	0.0366	0.0451	598
	=	19-20	Х		<50.2	227	<50.2	227	<0.00100	<0.00100	0.0109	0.0388	0.0497	581
	-	24-25	X		<50.3	<50.3	<50.3	<50.3	<0.00100	<0.00100	<0.00100	0.00563	0.00563	494
	=	29-30	Х		<50.1	<50.1	<50.1	<50.1	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	247

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Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

Sample ID	Sample	Sample	Soil	Status		TPH (mg/kg)	1	Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Oampie ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-25	5/8/2019	0-1	Χ		2,440	12,100	1,690	13,790	9.63	68.7	35.1	79.0	192	4,880
Inside Berm	5/14/2019	1-1.5	Χ		1,610	5,200	944	7,754	2.14	32.7	25.7	64.9	125	4,320
	"	2-2.5	Χ		85.1	450	65.6	601	0.397	5.74	5.26	15.2	26.6	1,150
	"	3-3.5	Χ		18.9	150	19.0	188	0.052	0.729	0.825	2.42	4.03	2,440
	"	4-4.5	Χ		39.2	398	154	591	<0.050	0.313	0.430	1.23	1.97	2,960
	"	5-5.5	Χ		<10.0	552	242	794	<0.050	<0.050	0.098	0.234	0.332	1,360
BH-25	10/22/2019	0-1	Χ		<49.9	223	<49.9	223	0.0160	0.281	0.283	0.752	1.33	5,200
	"	2-3	Χ		1,220	3,730	289	5,240	0.6600	8.86	5.73	13.3	28.6	5,200
	"	4-5	Χ		1,140	3,820	303	5,260	6.40	58.6	38.6	90.0	194	4,510
	"	6-7	Χ		<50.1	<50.1	<50.1	<50.1	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	1,460
	"	9-10	Χ		<50.1	<50.1	55.7	55.7	<0.00102	<0.00102	<0.00102	0.0119	0.0119	1,470
	"	14-15	Χ		<50.1	<50.1	<50.1	<50.1	<0.00100	0.0374	0.0628	0.188	0.288	805
	"	19-20	Χ		<50.0	<50.0	<50.0	<50.0	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	563
	"	24-25	Χ		<50.2	58.9	<50.2	58.9	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	349
SP-26 (Inside Berm)	5/8/2019	0-1	Χ		1,090	12,200	2,020	14,220	<0.050	1.34	1.33	4.02	6.69	640
BH-26	10/22/2019	0-1	Χ		795	4,560	405	5,760	<000994	<000994	<000994	<000994	<000994	8,630
	"	2-3	Χ		1,050	4,040	288	5,380	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	11,500
	"	4-5	Χ		1,280	4,860	386	6,530	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	7,370
	"	6-7	Χ		<50.1	428	62.9	491	0.00825	0.0797	0.0637	0.203	0.355	5,300
	"	9-10	Χ		<50.2	383	77.7	461	0.0149	0.151	0.109	0.380	0.655	3,060
	"	14-15	Χ		<50.3	<50.3	<50.3	<50.3	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	3,080
	"	19-20	Χ		<50.1	<50.1	<50.1	<50.1	<0.00101	<0.00101	<0.00101	0.00130	0.00130	769
	"	24-25	Χ		<50.3	<50.3	<50.3	<50.3	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	529
	"	29-30	Χ		<50.3	<50.3	<50.3	<50.3	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	347
	"	34-35	Χ		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	325
SP-27	5/8/2019	0-1	Χ		<10.0	14.5	<10.0	15.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,440
	"	2-3	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,340
	"	4-5	Χ		<10.0	938	244	1,182	<0.050	<0.050	<0.050	<0.150	<0.300	448
	"	6-7	Χ		<100	5,680	1,170	6,850	<0.050	0.0550	0.342	0.779	1.18	208
	"	9-10	Х		<10.0	80.6	<10.0	81.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
	"	14-15	Χ		<10.0	206	29.2	235	<0.050	<0.050	<0.050	<0.150	<0.300	272
	"	19-20	Χ		<10.0	93.2	12.9	106	<0.050	<0.050	<0.050	<0.150	<0.300	704
1	"	24-25	Χ		<10.0	19.0	<10.0	19.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
	"	29-30	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	"	34-35	Χ		-	-	-	-	-	-	-	-	-	112
	"	39-40	Х		-	-	-	-	-	-	-	-	-	80.0
											•			

Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

Sample ID	Sample	Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
oumpie ib	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-29	5/8/2019	0-1	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	< 0.050	<0.050	<0.150	<0.300	1,070
	"	2-3	Χ		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	<0.050	<0.150	< 0.300	560
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	160
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	48.0
SP-30	5/8/2019	0-1	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	<0.050	<0.150	<0.300	5,120
	"	2-3	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,330
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	1,490
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	682
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	704
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	256
SP-31	5/8/2019	0-1	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	"	2-3	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	80.0
SP-32	5/8/2019	0-1	Х		<10.0	35.3	22.7	58.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
	"	2-3	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
	"	4-5	Х		-	-	-	-	-	-	-	-	-	832
BH-33	10/22/2019	0-1	Х		<49.8	<49.8	<49.8	<49.8	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	1,360
	"	2-3	X		<49.7	<49.7	<49.7	<49.7	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	781
	"	4-5	X		<50.1	<50.1	<50.1	<50.1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	1,080
	"	6-7	X		<50.2	<50.2	<50.2	<50.2	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	772
	"	9-10	X		<50.2	<50.2	<50.2	<50.2	<0.000982	<0.000982	<0.000982	<0.000982	<0.000982	446
	"	14-15	Х		<50.1	<50.1	<50.1	<50.1	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	287
	"	19-20	Χ		<49.9	<49.9	<49.9	<49.9	<0.000984	<0.000984	<0.000984	<0.000984	<0.000984	399
BH-34	10/21/2019	0-1	Х		1,470	8,110	638	10,200	0.00130	0.0246	0.0423	0.133	0.201	290
	"	2-3	X		1,140	5,310	449	6,900	0.00256	0.0498	0.0643	0.202	0.319	522
	"	4-5	X		81.3	869	132	1,080	<0.00100	0.00337	0.00622	0.0198	0.0294	1,080
	"	6-7	Х		<50.2	165	55.9	221	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	112
	"	9-10	Х		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	209
	"	14-15	Х		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	480
	"	19-20	Χ		<50.1	<50.1	<50.1	<50.1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	2,440
	"	24-25	Χ		<50.3	<50.3	<50.3	<50.3	<0.00100	<0.00100	<0.00100	0.0102	0.0102	2,260
	"	29-30	Х		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	741
	"	34-35	Х		<50.0	<50.0	<50.0	<50.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	805
	"	39-40	Х		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	957
	•							1				•		

Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

Sample ID	Sample	Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-35	10/21/2019	0-1	Χ		<50.1	<50.1	<50.1	<50.1	<0.000992	<0.000992	<0.000992	<0.000992	<0.000992	1,660
	"	2-3	Χ		<49.9	917	100	1,020	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	2,860
	"	4-5	Χ		<50.0	502	78.3	580	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	1,120
	"	6-7	Χ		<49.7	<49.7	<49.7	<49.7	<0.000994	<0.000994	<0.000994	< 0.000994	<0.000994	3,340
	"	9-10	Χ		<49.8	<49.8	<49.8	<49.8	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	3,180
	"	14-15	Χ		<49.8	<49.8	<49.8	<49.8	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	3,990
	"	19-20	Χ		<50.2	<50.2	<50.2	<50.2	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	6,730
	"	24-25	Χ		<50.0	53.0	<50.0	53.0	<0.000998	<0.000998	<0.000998	0.00166	0.00166	1,790
	"	29-30	Χ		<49.8	<49.8	<49.8	<49.8	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	190
	"	34-35	Χ		<49.8	<49.8	<49.8	<49.8	<0.000986	<0.000986	<0.000986	<0.000986	<0.000986	523
	"	39-40	Χ		<49.8	<49.8	<49.8	<49.8	<0.000986	<0.000986	<0.000986	<0.000986	<0.000986	502
BH-36	10/21/2019	0-1	Χ		1,210	7,730	691	9,630	<0.0101	0.135	2.57	10.8	13.5	5,900
	"	2-3	Χ		<50.1	588	122	710	<0.0996	1.30	1.14	13.4	15.8	7,660
	"	4-5	Χ		<50.3	<50.3	<50.3	<50.3	<0.00100	<0.00100	<0.00100	0.00311	0.00311	13,000
	"	6-7	Х		<50.0	109	50.1	159	<0.00100	<0.00100	<0.00100	0.0184	0.0184	7,410
	"	9-10	Χ		<50.3	<50.3	<50.3	<50.3	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	2,060
	"	14-15	Χ		<50.2	<50.2	<50.2	<50.2	<0.00101	<0.00101	<0.00101	0.00186	0.00186	112
	"	19-20	Χ		<50.0	<50.0	<50.0	<50.0	<0.00100	0.00106	<0.00100	0.0143	0.0154	1,040
SP-37	1/13/2020	0-1	Χ		886	4,130	382	5,400	0.283	0.436	0.258	6.62	7.60	3,040
(Inside Berm)	"	2-3	Χ		1,170	3,230	301	4,700	0.642	21.20	7.33	21.5	50.7	3,200
	"	4-5	Χ		1,730	4,130	397	6,260	0.209	9.64	36.8	131	178	4,810
	"	6-7	Х		<50.0	224	<50.0	224	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	4,930
	"	9-10	Χ		<49.9	77.3	<49.9	77.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,170
	"	14-15	Χ		<49.8	93.1	<49.8	93.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	542
	"	19-20	Χ		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	144
	"	24-25	Χ		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	49.0
SP-38	1/13/2020	0-1	Х		406	4,410	472	5,290	0.101	0.142	0.130	3.20	3.57	2,160
(Inside Berm)	"	2-3	Х		1,060	3,250	304	4,610	0.815	11.8	5.80	21.3	39.7	6,130
	"	4-5	Х		1,550	5,330	486	7,340	1.19	15.5	9.86	24.5	51.0	6,120
	"	6-7	Х		<49.9	233	<49.9	233	<0.00198	<0.00198	0.00484	0.0240	0.0289	812
	"	9-10	Х		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	877
	"	14-15	Χ		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	943
	"	19-20	Χ		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	343
	"	24-25	Χ		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	300
	"	29-30	Х		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	200
	"	34-35	Χ		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	162
		ı						ı						

Photos

TET



View Southwest - Area of SP-1



View South - Area of SP-2



View North – Area of SP-3



View West - Area of SP-4







View South – Area of SP-5



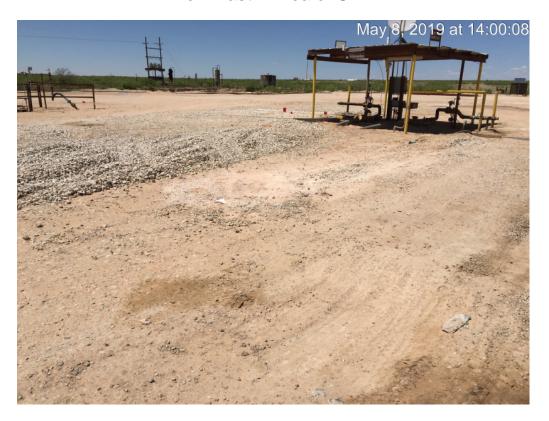
View East - Area of SP-6







View East - Area of SP-7



View Northwest - Area of SP-8







View Northwest – Area of SP-9



View West – Area of SP-10







View South - Area of SP-11



View North – Area of SP-12







View Northwest – Area of SP-13



View Southwest - Area of SP-14







View West – Area of SP-15



View East - Area of SP-16



View Northwest – Area of SP-17



View South - Area of SP-18







View South - Area of SP-19



View South - Area of SP-20







View North – Area of SP-21



View South - Area of SP-22







View East – Area of SP-24



View North - Area of SP-25

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View West – Area of SP-26



View West - Area if SP-27







View North - Area of SP-29



View South - Area of SP-30







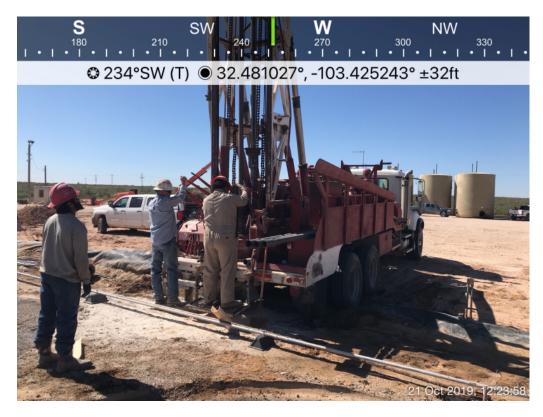
View North - Area of SP-31



View North – Area of SP-32







View Southwest – Area of BH-17



View Northeast – Areas of BH-18 and BH-19





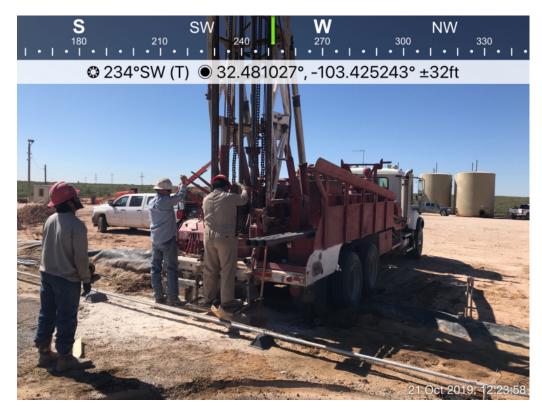
View Southeast – Area of BH-20



View Southwest - Areas of BH-23, BH-24, BH-25, and BH-26







View Southwest – Area of BH-17



View Northeast – Areas of BH-18 and BH-19







View Southeast – Area of BH-20



View Southwest - Areas of BH-23, BH-24, BH-25, and BH-26







View South - Areas of BH-33 and BH-34



View South - Area of BH-35







View Southeast – Area of BH-36







View South - Areas SP-37 and SP-38



View North – Areas of SP-37 and SP-38

Appendix A

Released to Imaging: 9/1/2023 3:11:42 PM

Form C-141

Revised August 8, 2011

pTO1502927423

<u>District I</u> 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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

			Rele	ease Notific	ation	and Co	rrective A	ction						
						OPERAT	ΓOR	🔀 Initi	al Report 🔲 Final Report					
		yote Water				· · · · · · · · · · · · · · · · · · ·	<u> </u>	erations Mana						
		Illinois STE	2 950 N	Iidland TX		Telephone N		<u>32~448~4917</u>						
Facility Nar	ne				1	facility Typ	e Production	n Water						
Surface Ow	ner Pyote	Water Sys	stems , L	Mineral O	wner		Pyote	API No	o. 30~025~02538					
	T					OF REI								
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County					
E	13		34	10 ft	N/S	5			LEA COUNTY					
1		25	La	titude_32.4808	355153	1534 255 agitude103.425630765566								
					URE	OF RELI								
		ols product	tion wa	<u>ter </u>		Volume of			Recovered 20 bbls					
Source of Rei						Date and H If YES, To	Hour of Discovery 1/14/15							
		X	Yes [No Not Re	quired			Jerry Burton N	NM OM					
By Whom?						Date and H								
Was a Water	course Read	ched?	Yes 🖸	No No		none none	lume Impacting the	he Watercourse.						
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*										
none														
D 1 G	CD 11	1.0	1: 1 4 .:	77. 1 · · · ·										
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ticket area a		•				·								
Describe Are	a Affected	and Cleanup /	Action Tak	en.* The clean i	ıp area	or	1. () 1) . 1	1 (1 1)(.	ation is done. Load lines 3&4					
									n the snow we have had since					
							-	*	go out several times to do this					
for lande liv	10 3 8 1													
									suant to NMOCD rules and leases which may endanger					
									ieve the operator of liability					
should their o	perations h	nave failed to a	adequately	investigate and re	emediate	contaminati	on that pose a thre	eat to ground wate	r, surface water, human health					
		addition, NMC ws and/or regu	•	tance of a C-141 i	report do	es not reliev	e the operator of r	responsibility for o	compliance with any other					
		<u> </u>					OIL CONS	SERVATION	DIVISION					
Signature:	1 motor	ta _												
Printed Name	Jerry F	Burton			Ä	Approved by	Environmental Sp	pecialist:						
		<i>T</i> C -							2/20/15					
		Manager fo			. A	Approval Dat	e : 1/29/15	Expiration	Date: 3/29/15					
E-mail Addre	_{ess:} audra	a@pyotewa	atersyst	ems.com	(Conditions of	Approval:		Attached					
Date: 1~23~	15		Phone	432~448~49)17			Doliniata	1RP-3512					
Attach Addi	tional She	ets If Necess					• •		1111 5512					
							ediate as per	INIMOCD	294873					
						guides.	Smal C 1411	- 2	nTO1502927174					
						Submit f	inal C-141 by	/ 3	>					

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

Form C-141 Revised August 8, 2011

nKJ1512041707

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notificati	ion and C	orrective Ac	ction					
OPER	ATOR	x	ex Initial Rep	ort 🔲 Final Report				
Name of Company PYOTE WATER SYSTEMS, LLC	Contact	Jerry Burto	n NM Operati	ons Manager				
Address 400 W. Illinois Ste 900	Telephoi	e No. 432.448	3,4917 or 432.	448.5323(Audra)				
Facility Name Kaiser SWD				er DIDPOSAL				
		21 - 1						
Surface Owner Pyote Water Systems, LLC Mineral Owner	Pyote Water S	stems, LLC	API No.	30-025-02538				
LOCAT	ION OF REL	FASE						
	rth/South Line	Feet from the	East/West Line E/W	County Lea COUNTY				
Latitude	Longitue	le	_					
NATU	RE OF RELE	ASE						
Type of Release; production water		f Release 100BBLS		ecovered 100 BBLS				
Source of Release Vac truck (unknown due to no camera's) hit load line 3	Date and 4/24/2013	Hour of Occurrence	e Date and 1	Hour of Discovery				
Was Immediate Notice Given X Yes No Not Required		o Whom? <i>Jerry Bi</i>		a is successive and a s				
By Whom? <i>Unknown driver (575)-390-3836</i>	Date and	HOUR; 4/24/2015	2:35 am	<u> </u>				
Was a Watercourse Reached?	Section (see Assessment	olume Impacting t						
☐ Yes *** No***								
If a Watercourse was Impacted, Describe Fully.*	RECEIVED							
-	E	y OCD Distr	ict 1 at 11:10	am, Apr 30, 2015				
Describe Cause of Problem and Remedial Action Taken.* unknown at 2:35 am (575)390-3836 in the morning, upon his arrival he noticed been hit. He did not see this happen at the Kaiser								
Describe Area Affected and Cleanup Action Taken.* Area affected was the pad only at the location. Jerry and his pumper (backhoe) 2 vac trucks one from Big Buck Services and one from BT		l damages themsel	ves, remedial work	done by L&J services				
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	e notifications the NMOCD t liate contamina	and perform correct narked as "Final Re tion that pose a thre	tive actions for rele eport" does not reli- eat to ground water	ases which may endanger eve the operator of liability , surface water, human health				
	OIL CONSERVATION DIVISION							
Signature: Printed paine: Jerry Burton		7000	1/00					
	Approved by Environmental Specialist:							
Attle: NM Operations Manager for Pyote Water systems, LLC	Approval Date: 04/30/2015 Expira			Expiration Date: 07/30/2015				
jerry@pvotewatersystems.com or audra@pyotewatersystems.com	n			u				
E-mail Address: 4-26-2015	Conditions of Approval: Site samples required. Delineate and remediate Attached							
Date: 4/26/15 Phone:432.448.4917	Site samples required. Delineate and remediate as per MNOCD guides. Geotag photographs of							
Attach Additional Sheets If Necessary	remediation			pKJ1512042374				

Received by OCD: 8/29/2023 3:37:34 PM

Name of Company Pyote Water Systems, LLC

400 W Illinois Ste 900 MIDLAND TX 79701

<u>District I</u> 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 Mex

RECEIVED Energy Minerals and Natura By JKeyes at 7:43 am, Jun 09, 2016

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

pJXK1616127747

Initial Report

Page 140 of 1449

Final Report

Release Notification and Corrective Action

OPERATOR

Telephone No.

Contact Jerry Burton

432-448-4917

Facility Nar	ne Kai	ser Swd			I	Facility Typ	e produc	tion Wa	ter	
Surface Ow	ner STA	ΤE		Mineral C	wner	STATE			API No	. 30-025-02538
				LOCA	TION	OF RE	LEASE			
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from the	East/	West Line	County
F	13	21s	215 34E							LEA COUNTY
			La	titude_32.4808	3578-	_ Longitud	le_103.4256	592 na	d 83	
				NAT	URE	OF REL	EASE			
Type of Rele Source of Re			tanks whi	le driver was unloa	ading		Release 1050 Hour of Occurre		Volume R	Recovered 1050 bbls Hour of Discovery 4 PM
Was Immedia		luction water	•			If YES, To		nce 5-17-16	Date and	Hour of Discovery 41 W
		×	Yes 🗆	No Not Re	equired		JERF		ON via telepł	none by driver
By Whom?							Hour 5/17/16 4			
Was a Water	course Read	ched?	Yes [l No		If YES, Vo	olume Impacting	g the Wat	ercourse.	
			•			1050 BL	S			
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.'	ķ						
fire melte	d parts o	f the liner.v	vater do	t under the lin	er					
	- p									
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*						
liada Minisa au la	:4 4 -	بمالم مسمالم		700 hhl taulca	 4 -	0 hhl-		4 !		d
containme					iess in	an 2 ddis	preecned co	ontainm	ent. calle	d vac truck out to empty
		•	•							
Describe Are	a Affected	and Cleanup A	Action Tak	ten.*						
load side	containm	ent have c	lean up	crew cleaning	ı up an	d disposir	ng of old tanl	ks and	cat walk t	o sundown
I hereby certi	fy that the i	nformation gi	ven above	e is true and comp	lete to th	e best of my	knowledge and	l understa	nd that purs	uant to NMOCD rules and
										eases which may endanger
										eve the operator of liability , surface water, human health
										ompliance with any other
federal, state,										
							OIL CO	NSERV	<u>/ATION</u>	<u>DIVISION</u>
Signature:	Jerry	Burton							1	lau
	J				A	Approved by	Environmental	Specialis	st: Jam	Klye-
Printed Name	e: Jerry E	surton								
Title: NM (Operation	ns Mgr			I	Approval Da	te: 06/09/2016		Expiration 1	Date: 08/09/2016
E-mail Addre	ss: jerry	@pyotewa	tersyste	ms.com		Conditions of	f Approval:			
		<u></u>			D	iscrete samp	les only. Deline	eate and r	emediate	Attached IND 4205
Date: 5-18- * Attach Addi		ate If Nagara		4324484917	pe	er NMOCD	guidelines.			1RP 4305
Attach Addi	nonai Snec	tis II necess	ary							nJXK1616127644

District I
1625 N: French Dr., Hobbs, NM 88240
District II
811 S. First St., Arlesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Form C-141 Revised August 8, 2011

pKL1632848917

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Release Notification and Corrective Action **OPERATOR** ☐ Initial Report Final Report Name of Company: Cambrian Management, LTD. Contact: Mike Anthony Telephone No. 432-631-4398 Address: 415 W. Wall St. Suite 900 Facility Name: Kaiser SWD #9 Facility Type: SWD Mineral Owner: State API No. 30-025-02538 Surface Owner: State LOCATION OF RELEASE Unit Letter Section Feet from the North/South Line Feet from the East/West Line County Township Range **21S** 34E 1980 North 1980 West Lea Latitude 32.4808578 Longitude -103.4256592 NATURE OF RELEASE Volume of Release: Unknown Volume Recovered: 0 Type of Release: Produced Water Date and Hour of Occurrence: Source of Release: Frac tanks Date and Hour of Discovery: Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required By Whom? Date and Hour: Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Due to a lightning strike on the tank battery fluid was transferred into temporary frac tanks to continue operations during reconstruction. The frac tanks leaked resulting in the release of an unknown quantity of fluid. The frac tanks have been removed from the location. Describe Area Affected and Cleanup Action Taken.* The frac tanks were set on the north side of the affected battery. The fluid from the leak flowed south around the battery berm and continued southsouthwest into the pasture. Soil samples will be taken in preparation for a remediation work plan. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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. OIL CONSERVATION DIVISION Mile anthony Signature: trusten Lynch Approved by Environmental Specialist: Printed Name: Mike Anthony Approval Date: 11/23/2016 Expiration Date: 01/23/2017 Title: Field Operations Superintendent Conditions of Approval: E-mail Address: manthony@cambrianmgmt.com Attached Please see attached Directive 1RP 4525 Date: 11/15/16 Phone: 432-631-4398 * Attach Additional Sheets If Necessary nKL1632848695

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

Form C-141 Revised April 3, 2017

pOY1730059151

nOY1730058924

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

ion and C	orrective A	CHOH						
OPERA	TOR	V	Initial Report Final Rep					
Contact Mi	ke Anthony							
Facility Ty	pe Salt Water D	isposal						
er State		AP	PI No. 30-025-02538					
ON OF RE	LEASE							
	Feet from the	East/West I	ine County					
			Lea					
Longitude_								
RE OF REL	EASE							
	f Release		ume Recovered					
	Hour of Occurrence		e and Hour of Discovery					
Unknown			/18/2017, 12:35 PM					
red N/A								
Date and	Hour N/A							
If YES, V	olume Impacting	the Watercour	rse.					
	RECEIVE	:U						
By Olivia Yu at 4:17 pm, Oct 27, 20								
y under inves	ingulion. No Tol	riodiai dolla	AT THE DOOR LEACH AT THE POIN					
se notifications a y the NMOCD r diate contamina	and perform corre- narked as "Final R tion that pose a thi ve the operator of	ctive actions for eport" does not reat to ground responsibility	at pursuant to NMOCD rules and for releases which may endanger of relieve the operator of liability water, surface water, human health for compliance with any other					
se notifications a y the NMOCD r diate contamina	and perform corre- narked as "Final R tion that pose a thi ve the operator of	ctive actions for eport" does not reat to ground responsibility	or releases which may endanger ot relieve the operator of liability water, surface water, human health					
se notifications a y the NMOCD r diate contamina	and perform corre- narked as "Final R tion that pose a thi ve the operator of	ctive actions for eport" does not reat to ground responsibility	or releases which may endanger ot relieve the operator of liability water, surface water, human health for compliance with any other					
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se notifications by the NMOCD rediate contamina ort does not relie Approved by	and perform correct narked as "Final Rition that pose a thin the operator of OIL CON y Environmental State: 10/27/20	etive actions for the eport does not eat to ground responsibility SERVATI specialist:	or releases which may endanger of relieve the operator of liability water, surface water, human health for compliance with any other ON DIVISION 9					
	Contact Mil Telephone Facility Ty er State ON OF RE orth/South Line Longitude RE OF REL Volume o 50 bbls Date and I Unknown If YES, To N/A Date and I If YES, V y under invest	Contact Mike Anthony Telephone No. (432)631-43 Facility Type Salt Water Dier State ON OF RELEASE Orth/South Line Feet from the Longitude -103.4256592 RE OF RELEASE Volume of Release 50 bbls Date and Hour of Occurrence Unknown If YES, To Whom? N/A Date and Hour N/A If YES, Volume Impacting the Receive of the Property of the Prope	Contact Mike Anthony Telephone No. (432)631-4398 Facility Type Salt Water Disposal er State ON OF RELEASE Orth/South Line Feet from the Longitude -103.4256592 NAD83 RE OF RELEASE Volume of Release 50 bbls Date and Hour of Occurrence Unknown If YES, To Whom? N/A Date and Hour N/A If YES, Volume Impacting the Watercoun RECEIVED					

1RP-4855

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III
1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr.

	, , , , , , , , , , , , , , , , , , , ,	-, -, -, -, -, -, -, -, -, -, -, -, -, -		Sa	inta Fe	, NM 8/	202)						
			Rele	ease Notific	atior	and C	or	rective A	ction					
						OPER	TC	OR		√ In	itial	Report		Final Report
		ambrian Man				Contact M								
Address P. Facility Nan		2, Midland, 7	X 79702					. (432)631-43 Salt Water Di						
		State SVVD					pe .	Salt Water Di	ispusai	_				
Surface Ow	ner State			Mineral C	wner S	State				API	No.	30-025-0	2538	
				LOCA	OIT	N OF RI	ELE	EASE						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	F	eet from the	East/V	Vest Lin	e	County		
F	13	21S	34E									Lea		
,			Latitud	le 32.4800857	'8 L	ongitude_	-10	3.4256592	NAD	83				
				NAT	URE	OF REI	LEA	ASE						
Type of Relea	ase Produc	ed Water				Volume 20 bbls	elease		Volum		ecovered			
Source of Re	lease Seal o	on pump					Hou	ır of Occurrenc	e	Date a	nd F	Hour of Dis		
Was Immedia		Given?				If YES,		/hom?		1/31/	2010	5, 10.00 All		
By Whom?	☐ Yes ☑ No ☐ Not Requ							ır						
l l	N/A													
Was a Water	Vas a Watercourse Reached? ☐ Yes ☑ No							me Impacting t		ercourse				
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	k		N/A	R	ECEIVI	ED					
Describe Cau	ise of Probl	lem and Reme	dial Actio	n Taken.*			By	y Olivia	Yu a	t 9:3	4	am, Fe	eb 0	7, 2018
The seal of	n a pump	failed. A v	acuum t	ruck was utilize	ed to re	ecover fre	e-st	tanding liqui	d. The	seal w	as	repaired	during	g initial
response a	activities.													
Describe Are	a Affected	and Cleanup	Action Tal	æn.*										
				ry and second										
				ed approximat ee 1RP-4855)										
		LO guidelin		ee IRP-4600)	. Reme	edialion o	ııııe	e impacted a	ii ea wi	ii be co	חומו	uctea in a	JUCUIT	uarice with
				is true and comp										
				nd/or file certain r ce of a C-141 repo										
should their o	perations h	nave failed to	adequately	investigate and r	emediat	e contamin	ation	that pose a thr	eat to gr	round w	ater,	surface wa	ater, hu	ıman health
		addition, NM(ws and/or reg		otance of a C-141	report d	oes not reli	eve t	the operator of	respons	ibility fo	or co	mpliance v	vith an	y other
C States	, or local la	wo and or reg				OIL CONSERVATION DIVISION								
Signature:	Doni	in Jan	6								15	4		
						Approved by Environmental Specialist:								
Printed Name: Denise Jones						2/7/2018								
Title: Regul	Title: Regulatory Analyst						Approval Date: Expiration Date:						/	
E-mail Addre	ess: djones	s@cambria	nmgmt.c	om		Conditions	of A	approval:				Attached		
Date: 2/	6/18			: (432) 620-91										
* Attach Addi	tional She	ets If Necess	sary		[1RP-49	60	lnOY:	1803	8340′	77			

pOY1803834550

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 <u>District III</u> 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

Form C-141 Revised April 3, 2017

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Relo	ease Notific	catior	n and Co	rrective A	ction							
						OPERA	ГOR		☐ Initia	al Report		Final Report			
Name of Co	mpany Ca	ımbrian Mar	agement	, Ltd.		Contact Mi	ke Anthony			•					
Address PO	Box 272,	Midland TX	79702				No . 432-631-4	398							
Facility Nar	ne Kaiser	State SWD				Facility Typ	e SWD								
Surface Ow	ner State			Mineral (Owner	State			API No	. 30-025-0	02538				
				•		N OF REI	FASE								
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	Fact/W	est Line	County					
Omi Letter	13	21S	34E	Teet Hom the	TOTH	South Line	1 cet from the	Lust/ **	CSt Line	Lea					
F															
					<u> </u>										
			Latitud	1e 32.480857	78 _L	Longitude -103.4256592 _{NAD83}									
				NAT	— CURE	OF RELI	EASE								
Type of Rele	ase Produc	ed Water		•			Release 150 bbl	ls	Volume F	Recovered	150 bbls	s			
Source of Re	lease Welll	head					lour of Occurrence			Hour of Dis					
337 T 1'		7' 0				06/20/2018			06/20/201	18 10:00A	<u>M</u>				
Was Immedia	ate Notice (Yes X	No Not Re	quired	If YES, To	Whom?								
By Whom?						Date and H	lour								
Was a Water	course Read	ched?				If YES, Vo	olume Impacting	the Water	rcourse.						
			Yes X	No											
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*											
		-	-												
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*											
Nipple on we	ellhead brok	te off – nipple	was repla	ced											
Describe Are	a Affected	and Cleanup A	Action Tal	cen.*											
All water was	s contained			water was picked	up. Thi	is was on top	of a previous spil	ll that was	s already r	eported and	is in the	e process to			
be remediated	d.														
				e is true and comp											
				nd/or file certain i											
				ce of a C-141 report investigate and r											
				otance of a C-141											
federal, state,	or local lav	ws and/or regu	ılations.												
						OIL CONSERVATION DIVISION									
Signature:						$\mathcal{O}\mathcal{M}$									
						Approved by Environmental Specialist:									
Printed Name	e: Denise J	ones													
Title: Regul	atory Analy	yst			Approval Date: 7/31/2018 Expiration Date:										
					,										
E-mail Addre	ess: <u>djones</u>	@cambrianms	gmt.com		Conditions of Approval: Attached										
Date: 06/21/	2018	Phone:			See attached directive										
34.5. 00/21/		i none.			7	1RP-5139)	nCH1	821239	2860					
eleased to In	nagina. Q	/1/2023 3-11	1:42 PM		=	nCH1821		POITI	02 1200						
iv III	8 51	112020 0.11	- 1 M A 17A		- [1		_ UUUUU								

Form C-141 Revised April 3, 2017

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**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Release Notification and Corrective Action

Name of C						OPERA	W 1 2 2 2 2 2 2			al Report		Final Re
Name of Company Cambrian Management, Ltd						Contact An						
Address PO Box 272, Midland, TX 79702							No. 432-620-9	181				
Facility Name Kaiser State SWD						Facility Typ	e SWD					
Surface Owner State Mineral Owner					Owner S	State			API No	. 30-025-0	2538	
				LOC	ATIO	N OF RE	FASE					
Jnit Letter	Section	Township	Range	Feet from the	_	South Line	Feet from the	Fact/	West Line	County		
F	13	21S	34E	1980	North	nata and a column	1980	West		Lea		
			Latitu	de 32.480938 l	N L	ongitude -10	3.425227	NAD	33			
						OF REL						
Type of Rele	ease Produc	ced Water					Release 200 Bb	ols	Volume I	Recovered 2	200 Bbls	3
Source of Re	elease Valv	e				08/06/2013		ce		Hour of Dis 18 10:00AM		
Was Immed	iate Notice		Yes 🗌	No 🗌 Not Re	equired	If YES, To Christina I						
By Whom?							Hour 08/06/2018					
Was a Water	rcourse Rea] Yes X	No		If YES, Vo	olume Impacting	the Wat	tercourse.			
f a Waterco	urse was In	pacted, Descr	ribe Fully	*								
		er Failure transfer pum	n comes	on Taken.* on while the in	iection i	oump is on a	a fuse blows on	high c	urrent We	are having	an ele	ctriciar
Sometimes look at turn	when the ing up the	transfer pum	ne transfo	on while the in			a fuse blows on	high c	urrent. We	are having	an ele	ctrician
Sometimes look at turn Describe Are	when the ing up the	transfer pum voltage at th and Cleanup	ne transfo	on while the in	peak cu	rrent.		high c	urrent. We	are having	; an ele	ctrician
Describe Are Only the are hereby cert regulations a bublic health should their or the environ	when the ing up the ea Affected a inside the ify that the all operators or the envioperations bonment. In a	and Cleanup berm which i information g are required ironment. The have failed to addition, NM6	Action Tales lined with the second acceptant adequately OCD acceptants.	on while the in rmers to lower ken.*	Pected. A	Il water was we he best of my notifications a ne NMOCD mete contaminat	vacuumed up. knowledge and nd perform correlarked as "Final I ion that pose a th	understa ective ac Report" reat to g	and that purstions for rel does not rel ground wate	suant to NM eases which ieve the ope r, surface wa	OCD ru may en rator of ater, hur	iles and danger liability man hea
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<u>District I</u> 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**

Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

			Rele	ease Notific	cation	and Co	rrective A	ction			
						OPERATOR X Initial Report Final Report					
Name of Company Cambrian Management, Ltd					(Contact Mr. Mike Anthony					
Address PO Box 272, Midland, TX 79702							No. 432-631-4	398			
Facility Name Kaiser State SWD						Facility Typ	e SWD				
				T				Trace		00 300 3001	
Surface Ow	ner State			Mineral (Owner S	State		[A]	PI No.	30-025-02538	
						OF RE	LEASE				
Unit Letter F	Section 13	Township 21S	Range 34E	Feet from the 1980	North/ North	South Line	Feet from the 1980	East/West I West	Line	County Lea	
			Latit	ude 32.480938				NAD83			
Tyma of Dala	naga Duadua	and Water		NAT	URE	OF REL	Release 500 Bb	lo Val	luma D		
Type of Rele Source of Re							Hour of Occurrence			ecovered 500 Bbls Hour of Discovery	
		pagis barda A					3 10:00AM			8 11:00 AM	
Was Immedi	ate Notice (Yes 🗆	No Not Re	quired	If YES, To Olivia Yu	Whom? and other OCD m	nember on loc	ation		
By Whom? N							Iour 12:00 PM (
Was a Water	course Read	ched?	Yes X	No		If YES, Vo	olume Impacting	the Watercou	rse.		
A valve did ineeded.	not close co	em and Reme mpletely and and Cleanup	the tanks i	an oved into a co	mpletely	lined pit @	the unload tank a	rea. The valv	e is be	ing repaired or replaced as	
The release vup.	was complet	tely contained	within a	lined pit. All water	er was re	covered. The	e pit liner and tan	ks will be wa	shed a	fter all water has been picked	
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.					release no ort by the remediate	otifications a e NMOCD m e contaminat	nd perform correct parked as "Final Ricon that pose a the	ctive actions t Report" does r reat to ground	for rele not reli l water	eases which may endanger eve the operator of liability , surface water, human health	
							OIL CON	SERVAT	ION	DIVISION	
Signature: James James						J91					
Printed Name: Denise Jones						Approved by	Environmental S	Specialist:	đ		
Title: Regula	atory Analys	st				Approval Da	8/21/2018	8 Expir	ration 1	Date:	
E-mail Addr	ess: djones(@cambrianmg	gmt.com			Conditions o				Attached	
Date: 08	3/17/2018		F	Phone:432-620-91	0.1		iner in questio				
Date: 08/17/2018 Phone:432-620-9181 Attach Additional Sheets If Necessary NOY1823336566 POY1823336912 Peleased to Imaging: 9/1/2023 3:11:42 PM				i	inspection and will co	ith a concise re with affirmation ntinue to cont hoto documen	on the liner ain liquids.	r has	1RP-5163		

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
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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	NCH1834760902
District RP	1RP-5273
Facility ID	
Application ID	pCH1834761047

Release Notification

Responsible Party

Responsible Party Permian Water Solutions, LLC Contact Name Dale Glosson				OGRI	D 373626		
				Conta	Contact Telephone 432-894-3636		
Contact email dale@permianws.com				Incide	nt # NCH1834760902 KAISER STATE SWD		
Contact mai	ling address	PO Box 2106,	Midland, TX 79	702	@ 30-025-02538		
atitude 32.	480938			Longitu	de103.425227		
Site Name k	aiser State	SWD	(//////		pe Salt Water Disposal		
Date Release	22.000	7.9 (1.95)		- Info	f applicable) 30-025-02538		
	Discovered	11/2/10		THI ITT ((applicable) 30-023-02336		
Unit Letter	Section	Township	Range	C	ounty		
F	13	218	34E	Lea			
☑ Crude Oi	Materia	al(s) Released (Select	all that apply and atta	nd Volume of the calculations or specific	cific justification for the volumes provided below)		
		Volume Releas			Volume Recovered (bbls) 16		
Produced	Water	Volume Releas			Volume Recovered (bbls)		
		Is the concentrate produced water	tion of dissolved >10,000 mg/l?	chloride in the	☐ Yes ☐ No		
Condensate Volume Released (bbls)					Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)			ed (Mcf)		Volume Recovered (Mcf)		
Other (de	scribe)	Volume/Weigh	t Released (provi	de units)	Volume/Weight Recovered (provide units)		
Cause of Rele	ease Oil ski	m tank overflow	; all fluids conta	nined within cont	ainment berm		

Received by OCD: 8/29/2023 3:37:34 PM State of New Mexico Page 2 Oil Conservation Division Incident ID NCH1834760902

District RP 1RP-5273

Facility ID

Application ID pCH1834761047

Was this a major release as defined by 1915.29.7(A) NMAC? Yes No If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Dat Glosson called District I office @ 11:25 am on 11/2/18, was transferred to Christina Hernandez, Left voicemall and call bac number. C. Hernandez called back later in the afternoon and the report was made. 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 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: The hydrocarbon impacted soil is in process of being removed and stored on plastic liner, as well as covered with plastic liner to prevent rainwater from dispersing hydrocarbon contamination, pending soil sampling and site assessment. 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 remediate lefforts have been successfully completed or if the release occurred within a lined containment are see (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for lossure evaluation. Thereby 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 occurred within a lined containment are required to report and/or file certain release notifications and perform corrective actions for releases occurred within a lined containment are required to report and/or f		Application 15 pointed in a 10 in
Closson called District I office @ 11:25 am on 11/2/18, was transferred to Christina Hernandez, Left voicemail and call bac number. C. Hernandez called back later in the afternoon and the report was made. Initial Response	release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
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. If all the actions described above have not been undertaken, explain why: The hydrocarbon impacted soil is in process of being removed and stored on plastic liner, as well as covered with plastic liner to prevent rainwater from dispersing hydrocarbon contamination, pending soil sampling and site assessment. 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. Thereby 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 iresponsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Park Grasson Title: Operations - Markette	Glosson called District	I office @ 11:25 am on 11/2/18, was transferred to Christina Hernandez, Left voicemail and call back
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email: Telephone: 457.884.3634	regulations all operators are public health or the environs failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name:	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title:
OCD Only Received by: Received by: By CHernandez at 4:56 pm, Dec 13, 2018	NECI	

Received by OCD: 8/29/2023 Form C-141	3:37:34 PM State of New Mexico
Page 3	Oil Conservation Division

	Page 149 of 1449
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

(ft bgs)					
☐ Yes ☐ No					
Yes No					
☐ Yes ☐ No					
☐ Yes ☐ No					
☐ Yes ☐ No					
☐ Yes ☐ No					
☐ Yes ☐ No					
☐ Yes ☐ No					
☐ Yes ☐ No					
☐ Yes ☐ No					
☐ Yes ☐ No					
☐ Yes ☐ No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soi contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report. Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ⅓2-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody					

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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	Page 150 of 144	<i>19</i>
Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thruster.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	responsibility for compliance with any other federal, state, or local laws
Printed Name:	_ Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

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Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.				
□ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)					
Deferral Requests Only: Each of the following items must be con-	nfirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility				
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.				
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of				
Printed Name:	Title:				
Signature:	Date:				
email:	Telephone:				
OCD Only					
Received by:	Date:				
☐ Approved	Approval				
Signature:	<u>Date:</u>				

Appendix B

Water Well Data Average Depth to Groundwater (ft) Permian Water Solutions - Kaiser SWD

	20 Sc	uth	34	East			
6	5	4 125	3	2	1		6 5
7	8	9	10	11	12		<mark>64</mark> 7
1	8	9	10	''	12		'
18	17 1 <mark>28</mark>	16	15	14	13		18
	140			150			
19	20	21	22	23	24		19
					270		
30	29	28	27	26	25		30
31	32	33	34 82	35	36		31
	21 Sc	uth	33	East	•	_	
6	5	4	3	2 79	1		6

	20 Sc	outh	35		
6 56 64	5 64	4	3	2	1
7	8	9	10	11	12 49
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31 65	32	33 89	34	35	36

•	1
•	
2	40
1	12
2	29
4	13
5	
3	24
6 1 <mark>06</mark>	25
70	
5	36
22	
	1 2 4 5 3 6 106 70

	21 Sc	outh	33	East	
6	5	4	3	2 79 1 07	1
7	8	9	10	11 150	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28 179	27	26	25
31	32	33 180	34	35	36

	21 Sc	uth	34	East	
6	5	4 95	3	2	1
7	8 120	9	10	11	12
18	17	16 105	15	14	13 100
19	20	21 128	22	23	24
30	29	28 135	27	26	25
31	32	33	34	35	36

	21 So	uth	35	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	22 Sc	uth	33	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13 391
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	22 Sc	uth	34	East	
6	5	4	3	2	1
7	8	9	10	11 30	12 50
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	22 So	uth	35	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- **90** Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
- 90 Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- **121** Abandoned Waterwell (recently measured)



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,

closed)

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

water right me.	CIOSCO	POD	(40.0					iai goot,	(,		(-,
		Sub-		Q	Q (Q					Depth	Depth	Water
POD Number	Code	basin	County	64	16	4 Sec	Tws	Rng	Х	Υ	•	•	Column
CP 00089	Ο	CP	LE		2 1	13	21S	34E	647840	3594615 🎒	235		
CP 00092 POD1		СР	LE	1	3 1	25	21S	34E	647479	3591694* 🎒	196		
CP 00489		СР	LE			04	21S	34E	643274	3597749* 🎒	125	95	30
<u>CP 00498</u>		СР	LE		2 4	80	21S	34E	642287	3595932* 🎒	145	120	25
CP 00571 POD1		СР	LE	3	1 4	28	21S	34E	643499	3591063 🌕	170	135	35
CP 00583		СР	LE		3	3 21	21S	34E	642944	3592518* 🌕	171	128	43
CP 00588 POD1		СР	LE		3 2	2 33	21S	34E	643583	3589918* 🎒	89		
CP 00589 POD1		СР	LE		3 2	2 33	21S	34E	643583	3589918* 🎒	84		
CP 00590 POD1		СР	LE			01	21S	34E	648099	3597829* 🌑	79		
CP 00611		СР	LE		2 1	06	21S	34E	639838	3598306* 🎒	118	112	6
<u>CP 00791</u>		СР	LE	4	2 4	1 06	21S	34E	640754	3597413* 🎒	85	55	30
CP 01066 POD1		СР	LE	4	3 2	2 28	21S	34E	643735	3591345 🎒	210	140	70
CP 01067 POD1		СР	LE	1	3 4	28	21S	34E	643447	3591434 🌕	210	140	70
CP 01068 POD1		СР	LE	4	1 4	1 28	21S	34E	643609	3591005 🌍	180	140	40
CP 01069 POD1		СР	LE	2	1 4	28	21S	34E	643737	3591191 🎒	210	140	70
CP 01091 POD1		СР	LE	3	3 2	2 28	21S	34E	643446	3591434 🎒	200	140	60
CP 01364 POD1		СР	LE	4	2 3	3 16	21S	34E	643147	3594331 🎒	165	105	60
CP 01366 POD1		СР	LE	4	4 1	16	21S	34E	643196	3594698 🌑	180	110	70
CP 01671 POD1		СР	LE	2	4 1	16	21S	34E	643108	3594887 🌑	157		

120 feet Average Depth to Water:

> 55 feet Minimum Depth:

Maximum Depth: 140 feet

Record Count: 19

PLSS Search:

Township: 21S Range: 34E

*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.



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater	✓ New Mexico	∨ GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

site_no list =

• 322824103253301

Minimum number of levels = 1

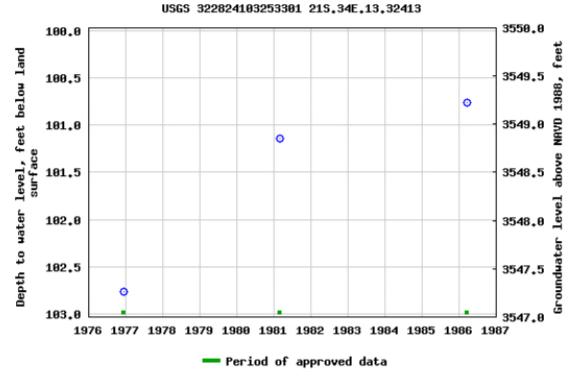
Save file of selected sites to local disk for future upload

USGS 322824103253301 21S.34E.13.32413

Available data for this site	Groundwater: Field measurements		GO	
Lea County, New Mexico				-
Hydrologic Unit Code 13070	0007			
Latitude 32°28'24", Longit	ude 103°25'33" NAD27			
Land-surface elevation 3,65	50 feet above NAVD88			
The depth of the well is 335	5 feet below land surface.			
This well is completed in th	e Chinle Formation (231CHN	L) lo	cal a	aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

Title: Groundwater for New Mexico: Water Levels

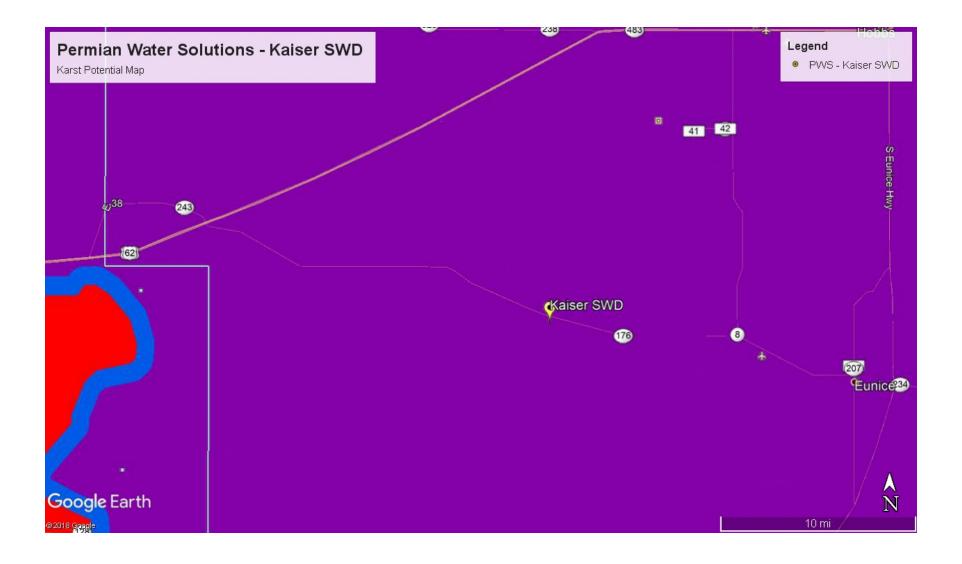
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

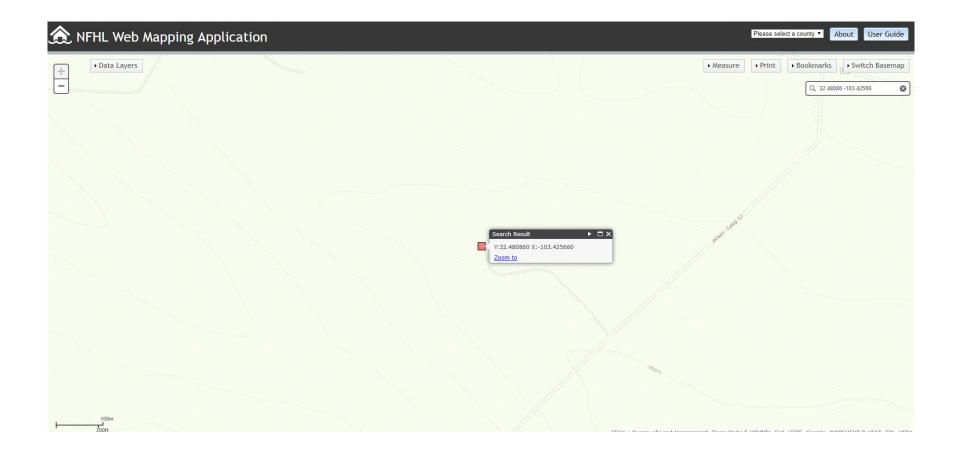
Page Contact Information: New Mexico Water Data Maintainer

Page Last Modified: 2019-05-13 12:56:28 EDT

1 0.95 nadww01







Appendix C

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-1			
GPS	32.480778° -103.425919°			
Project #:	212C-MD-01742			
Total Depth	35'			
Date Installed:	5/7/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Caliche and sand	No odor or Odor	3140	-
2-3	Caliche and sand	No Stain or odor	1,700	-
4-5	Caliche and sand	No Stain or odor	1,090	-
6-7	Caliche and sand	No Stain or odor	879	-
9-10	Caliche and sand	No Stain or odor	780	-
14-15	Caliche and sand	No Stain or odor	685	-
19-20	Caliche and sand	No Stain or odor	765	-
24-25	Caliche and sand	No Stain or odor	476	240
29-30	Caliche and sand	No Stain or odor	274	200
34-35	Caliche and sand	No Stain or odor	265	-

Client:	Permian Water Solutions					
Site Name	Kaiser SWD					
Sample ID:	SP-2					
GPS	32.480951° -103.425927°					
Project #:	212C-MD-01742					
Total Depth	35'					
Date Installed:	5/7/2019					
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)		
0-1	Sand, concrete cuttings	Moderate odor	4980	-		
2-3	Sand, concrete cuttings	Moderate odor	4,000	-		
4-5	Silty sand	Moderate odor	1,990	-		
6-7	Silty sand	Heavy odor	1,800	-		
9-10	Silty sand	Faint odor	2,500	-		
14-15	Limestone and chert	Very faint odor	2,950	-		
19-20	Limestone and chert	No Stain or odor	924	-		
24-25	Limestone and chert	No Stain or odor	787	-		
29-30	Limestone and chert	No Stain or odor	510	280		
34-35	Limestone and chert	No Stain or odor	461	320		
<u> </u>	<u>I</u>					

Client:	Permian Water Solutions					
Site Name	Kaiser SWD					
Sample ID:	SP-3					
GPS	32.481342° -103.425949°					
Project #:	212C-MD-01742					
Total Depth	5.5'					
Date Installed:	5/13/2019					
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)		
0-1	Caliche	Faint odor	2,420	-		
1-1.5	Brown sand and caliche	No odor	415	-		
2-2.5	Light brown sand and caliche	No odor	400	-		
3-3.5	Light brown sand and caliche	No odor	297	-		
4-4.5	Light brown sand and caliche	No odor	312	-		
5-5.5	Light brown sand and caliche	No odor	365	-		

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-4				
GPS	32.481349° -103.425743°				
Project #:	212C-MD-01742				
Total Depth	15'				
Date Installed:	5/7/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Sand and caliche	No stain or odor	1620	-	
2-3	Sand and caliche	No stain or odor	1,690	-	
4-5	Sand and caliche	No stain or odor	1,140	-	
6-7	Sand and caliche	No stain or odor	714	-	
9-10	Sand and caliche	No stain or odor	656	480	
14-15	Sand and caliche	No stain or odor	655	480	
-	•	•			

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-5			
GPS	32.480979° -103.425687°			
Project #:	212C-MD-01742			
Total Depth	35'			
Date Installed:	5/7/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Dark brown sand	No Stain or odor	3180	-
2-3	Dark brown sand	No Stain or odor	1,020	-
4-5	Dark brown sand	No Stain or odor	754	400
6-7	Dark brown sand	Heavy odor	510	-
9-10	Dark brown sand	Heavy odor	610	-
14-15	Dark brown sand	Heavy odor	673	-
19-20	Dark brown sand	Heavy odor	689	-
24-25	Dark brown sand	Moderate odor	575	-
29-30	Light tan sand	No Stain or odor	679	240
34-35	Light tan sand	No Stain or odor	596	200
-	•			

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-6			
GPS	32.480748° -103.425638°			
Project #:	212C-MD-01742			
Total Depth	20'			
Date Installed:	5/7/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Dark brown sand	No Stain or odor	3950	-
2-3	Dark brown sand	No Stain or odor	2,020	-
4-5	Dark brown sand	No Stain or odor	1,030	-
6-7	Light tan sand and caliche	No Stain or odor	905	-
9-10	Light tan sand and caliche	No Stain or odor	825	640
14-15	Light tan sand and caliche	No Stain or odor	642	480
19-20	Light tan sand and caliche	No Stain or odor	531	450
B		•		

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-7			
GPS	32.480544° -103.425502°			
Project #:	212C-MD-01742			
Total Depth	25'			
Date Installed:	5/7/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Dark brown sand	Very faint odor	2360	-
2-3	Dark brown sand	Very faint odor	1,120	-
4-5	Light tan and red sand	No Stain or odor	783	-
6-7	Light tan and red sand	No Stain or odor	615	600
9-10	Light tan and red sand	No Stain or odor	632	720
14-15	Light tan and red sand	No Stain or odor	752	720
19-20	Light tan and red sand	No Stain or odor	655	440
24-25	Light tan and red sand	No Stain or odor	300	280

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-8			
GPS	32.480767° -103.425401°			
Project #:	212C-MD-01742			
Total Depth	30'			
Date Installed:	5/7/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Dark brown sand	Faint odor	9,080	-
2-3	Dark brown sand	Faint odor	5,650	-
4-5	Dark brown sand	Faint odor	4,490	-
6-7	Light tan and red sand	No Stain or odor	4,370	-
9-10	Light tan and red sand	No Stain or odor	3,970	-
14-15	Light tan and red sand	No Stain or odor	3,100	-
19-20	Sand with caliche and cert	No Stain or odor	1,700	-
24-25	Red sand	No Stain or odor	452	400
29-30	Red sand	No Stain or odor	147	180
<u> </u>	l			

Client:	Permian Water Solutions					
Site Name	Kaiser SWD					
Sample ID:	SP-9					
GPS	32.481030° -103.425445°					
Project #:	212C-MD-01742					
Total Depth	35'					
Date Installed:	5/7/2019					
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)		
0-1	Dark brown sand	Faint odor	5,280	-		
2-3	Dark brown sand	Faint odor	2,250	-		
4-5	Light tan sand and caliche	No Stain or odor	1,820	-		
6-7	Light tan sand and caliche	No Stain or odor	2,610	-		
9-10	Light tan sand and caliche	No Stain or odor	2,280	-		
14-15	Red sand	No Stain or odor	2,270	-		
19-20	Red sand	No Stain or odor	2,680	-		
24-25	Red sand	No Stain or odor	1,530	-		
29-30	Red sand	No Stain or odor	405	440		
34-35	Red sand	No Stain or odor	421	320		
-		•				

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-10				
GPS	32.481350° -103.425486°				
Project #:	212C-MD-01742				
Total Depth	5'				
Date Installed:	5/8/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark brown sand	No Stain or odor	1,200	-	
2-3	Dark brown sand	No Stain or odor	680	560	
4-5	Light tan sand and caliche	No Stain or odor	507	360	

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-11			
GPS	32.481352° -103.425213°			
Project #:	212C-MD-01742			
Total Depth	10'			
Date Installed:	5/8/2019			
	•			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Dark brown sand	No Stain or odor	940	-
2-3	Light tan sand and caliche	No Stain or odor	1,010	-
4-5	Light tan sand and caliche	No Stain or odor	915	640
6-7	Light tan sand and caliche	No Stain or odor	475	400
9-10	Light tan sand and caliche	No Stain or odor	276	240

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-12				
GPS	32.480449° -103.425113°				
Project #:	212C-MD-01742				
Total Depth	15'				
Date Installed:	5/8/2019				
	•				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark brown sand	No Stain or odor	1,140	-	
2-3	Dark brown sand	No Stain or odor	1,330	-	
4-5	Light tan sand and caliche	No Stain or odor	895	600	
6-7	Light tan sand and caliche	No Stain or odor	397	400	
9-10	Light tan sand and caliche	No Stain or odor	325	320	
14-15	Light tan sand and caliche	No Stain or odor	355	200	

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-13				
GPS	32.480942° -103.424907°				
Project #:	212C-MD-01742				
Total Depth	1'				
Date Installed:	5/8/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark brown sand	No Stain or odor	308	-	

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-14				
GPS	32.481152° -103.424928°				
Project #:	212C-MD-01742				
Total Depth	35'				
Date Installed:	5/8/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark brown sand	No Stain or odor	895	-	
2-3	Dark brown sand	No Stain or odor	667	-	
4-5	Red sand	No Stain or odor	1,060	-	
6-7	Red sand	No Stain or odor	898	440	
9-10	Red sand	No Stain or odor	516	480	
14-15	Red sand	No Stain or odor	1,120	560	
19-20	Light tan sand with limestone and chert	No Stain or odor	1,510	1,400	
24-25	Light tan sand with limestone and chert	No Stain or odor	1,020	-	
29-30	Red sand	No Stain or odor	424	400	
34-35	Red sand	No Stain or odor	315	120	

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-15				
GPS	32.480365° -103.425729°				
Project #:	212C-MD-01742				
Total Depth	7'				
Date Installed:	5/8/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark brown sand	No Stain or odor	1,050	-	
2-3	Dark brown sand	No Stain or odor	945	680	
4-5	Dark brown sand	No Stain or odor	970	400	
6-7	Light tan sand and caliche	No Stain or odor	1,030	440	
				l	

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-16				
GPS	32.480448° -103.425897°				
Project #:	212C-MD-01742				
Total Depth	20'				
Date Installed:	5/8/2019				
	•				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark brown sand with gravel	No Stain or odor	553	-	
2-3	Dark brown sand with gravel	No Stain or odor	1,350	-	
4-5	Dark brown sand with gravel	No Stain or odor	1,390	-	
6-7	Dark brown sand with gravel	No Stain or odor	1,430	-	
9-10	Dark brown sand with gravel	No Stain or odor	1,250	-	
14-15	Light tan sand and caliche	No Stain or odor	975	440	
19-20	Light tan sand and caliche	No Stain or odor	725	360	

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-17				
GPS	32.481215° -103.425292°				
Project #:	212C-MD-01742				
Total Depth	5.5'				
Date Installed:	5/13/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Caliche	Heavy odor	-	-	
2-3	Caliche	Heavy odor	-	-	
3-4	Caliche	Heavy odor	-	-	
4-4.5	Dark brown sand with clay & caliche	Moderate odor	OL	-	
5-5.5	Dark brown sand with clay & caliche	Faint odor	OL	-	
		ı			

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-18				
GPS	32.480967° -103.425281°				
Project #:	212C-MD-01742				
Total Depth	3'				
Date Installed:	5/7/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark sand and caliche	Heavy odor	4490	-	
2-3	Dark sand and caliche	Heavy odor	3,340	-	
		,			
	1		I .		

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-19				
GPS	32.480697° -103.425278°				
Project #:	212C-MD-01742				
Total Depth	4.5'				
Date Installed:	5/13/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark sand and caliche	Heavy odor	4040	-	
2-3	Dark sand and caliche	Heavy odor	6,270	-	
4-4.5	Dark sand and caliche	Heavy odor	3,130	OL	
	•	-	•		

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-20				
GPS	32.480723° -103.425099°				
Project #:	212C-MD-01742				
Total Depth	5.5'				
Date Installed:	5/13/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark sand and caliche	Heavy odor	1660	-	
2-3	Dark sand and caliche	Heavy odor	1,270	-	
4-4.5	Dark sand and caliche	Moderate odor	1,300	1200	
5-5.5	Light sand and caliche	Moderate odor	1,400	1280	

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-21				
GPS	32.480913° -103.425125°				
Project #:	212C-MD-01742				
Total Depth	5.5'				
Date Installed:	5/13/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark sand and caliche	Heavy odor	1640	-	
2-3	Dark sand and caliche	Heavy odor	1,230	-	
4-4.5	Dark sand and caliche	Moderate odor	2,340	1760	
5-5.5	Dark sand and caliche	Moderate odor	2,100	1520	
	•	•	•		

Client:	Permian Water Solutions									
Site Name	Kaiser SWD									
Sample ID:	SP-22									
GPS	32.481100° -103.425121°									
Project #:	212C-MD-01742									
Total Depth	4.5'									
Date Installed:	5/13/2019									
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)						
0-1	Dark sand and caliche	Faint odor	809	-						
2-3	Dark sand and caliche	Faint odor	843	-						
3-3.5	Light brown sand and caliche	Faint odor	1,110	640						
4-4.5	Light brown sand and caliche	No stain or odor	840	880						

Client:	Dannian Water Calutions										
Site Name	Permian Water Solutions Kaiser SWD										
	SP-23										
Sample ID: GPS											
	32.480575° -103.425705°										
Project #:	212C-MD-01742										
Total Depth	4.5'										
Date Installed:	5/14/2019										
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)							
0-1	Sand with gravel and caliche	Heavy stain and odor	-	-							
1-1.5	Caliche	Heavy odor	374	-							
2-2.5	Red clay	Heavy odor	1,400	-							
3-3.5	Caliche	Heavy stain and odor	1,590	-							
4-4.5	Caliche	Heavy stain and odor	2,020	-							

Client:	Permian Water Solutions								
Site Name	Kaiser SWD								
Sample ID:	SP-24								
GPS	32.480632° -103.425799°								
Project #:	212C-MD-01742								
Total Depth	1'								
Date Installed:	5/8/2019								
	1000000								
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)					
0-1	Sand with gravel and caliche	Heavy stain and odor	-	-					
	Deeper samples could not be obtained								
	due to rain water puddling in the area								
	upon return.								

Client:	Permian Water Solutions										
Site Name	Kaiser SWD										
Sample ID:	SP-25										
GPS	32.480534° -103.425837°										
Project #:	212C-MD-01742										
Total Depth	5.5'										
Date Installed:	5/14/2019										
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)							
0-1	Sand with gravel and caliche	Heavy stain and odor	-	-							
1-1.5	Caliche	Heavy stain and odor	2,640	-							
2-2.5	Red clay	Heavy stain and odor	1,380	-							
3-3.5	Caliche	Heavy stain and odor	3,090	-							
4-4.5	Caliche	Heavy stain and odor	2,410	-							
5-5.5	Caliche	Heavy stain and odor	2,320	-							

Client:	Permian Water Solutions									
Site Name	Kaiser SWD									
Sample ID:	SP-26									
GPS	32.480451° -103.425751°									
Project #:	212C-MD-01742									
Total Depth	1'									
Date Installed:	5/8/2019									
	1									
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)						
0-1	Sand with gravel and caliche	Heavy stain and odor	-	-						
	Deeper samples could not be obtained									
	due to rain water puddling in the area									
	upon return.									

Client:	Permian Water Solutions									
Site Name	Kaiser SWD									
Sample ID:	SP-27									
GPS	32.481092° -103.425951°									
Project #:	212C-MD-01742									
Total Depth	40'									
Date Installed:	5/8/2019									
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)						
0-1	Dark brown sand and gravel	No Stain or odor	3420	-						
2-3	Dark brown sand and gravel	No Stain or odor	4,800	-						
4-5	Sand	Heavy odor	2,830	-						
6-7	Sand and gravel	Moderate odor	8,000	-						
9-10	Sand and gravel	Moderate odor	7,400	-						
14-15	Sand and gravel	Moderate odor	7,300	-						
19-20	Sand and gravel	Moderate odor	4,650	-						
24-25	Sand and gravel	Moderate odor	287	-						
29-30	Silty sand	No Stain or odor	415	400						
34-35	Silty sand	No Stain or odor	385	200						
L				ı						

Olimata	ln : w o:								
Client:	Permian Water Solutions Kaiser SWD								
Site Name									
Sample ID:	SP-29								
GPS	32.481134° -103.425716°								
Project #:	212C-MD-01742								
Total Depth	7'								
Date Installed:	5/8/2019								
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)					
0-1	Dark brown sand and gravel	No Stain or odor	2,280	-					
2-3	Dark brown sand and gravel	No Stain or odor	<i>957</i>	720					
4-5	Sand and caliche	No Stain or odor	200	200					
6-7	Sand and caliche	No Stain or odor	160	160					

Client:	Permian Water Solutions									
Site Name	Kaiser SWD									
Sample ID:	SP-30									
GPS	32.481158° -103.425458°									
Project #:	212C-MD-01742									
Total Depth	15'									
Date Installed:	5/8/2019									
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)						
0-1	Dark brown sand and gravel	No Stain or odor	5010	-						
2-3	Dark brown sand and gravel	No Stain or odor	2,410	-						
4-5	Sand and caliche	No Stain or odor	1,010	-						
6-7	Sand and caliche	No Stain or odor	946	-						
9-10	Sand and caliche	No Stain or odor	858	480						
14-15	Sand and caliche	No Stain or odor	262	200						

Client:	Permian Water Solutions								
Site Name	Kaiser SWD								
Sample ID:	SP-31								
GPS	32.480607° -103.425155°								
Project #:	212C-MD-01742								
Total Depth	5'								
Date Installed:	5/8/2019								
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)					
0-1	Dark brown sand	No Stain or odor	355	-					
2-3	Dark brown sand	No Stain or odor	200	200					
4-5	Dark brown sand	No Stain or odor	212	160					

Client:	Permian Water Solutions								
Site Name	Kaiser SWD								
Sample ID:	SP-32								
GPS	32.480746° -103.424896°								
Project #:	212C-MD-01742								
Total Depth	5'								
Date Installed:	5/8/2019								
	•								
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)					
0-1	Dark brown sand	No Stain or odor	243	-					
2-3	Dark brown sand	No Stain or odor	762	400					
4-5	Dark brown sand	No Stain or odor	755	560					
		I							



Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

Coordinates: 32.481227 -103.425306

Elevation :

Date: Monday, October 21, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WL	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10	Black/brown sand Black/brown sand Red sand and silt Red sand and silt Fine dry brown sand Dense layer of caliche Caliche with pebbels Tan Sand with caliche Dense layer of caliche White fine caliche Brown sand Fine red sand Red Sand	840 700 500		50		Comments: T.D 30'	(PPI-1)	

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



Soil Drilling Log with Field Testing Results

Project Name: Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

Coordinates: 32.480967 -103.425290

Elevation :

Date: Monday, October 21, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WI	. Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.) W	/L	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
	Black and brown sand / gravel			50				
5	tan and black gravel and sand			55				
10	Dense layer of caliche tan caliche			60				
#1	tan canche			#				
15	Caliche layer	1,200		65				
10	Red brown sand			70				
#	Dense layer of calchie			#1				
	Red brown sand	1,800		75				
30	Red brown sand	1,800		#	c	Comments: T.D 50'		
35 -	Red brown sand	1,000		#				
40	Red brown sand	800		#				
45	Red brown sand	480		#				
50	Red brown sand	400		\pm				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

Coordinates : 32.480704 -103.425281

Elevation :

Date: Tuesday, October 22, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) W	/L Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.) W	L	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
° I	Black brown sand with gravel			50 📘				
10	Black brown sand with gravel			55				
10	tan sand with calcihe			60				
土	Dense layer of caliche			<u>+</u>				
15	Caliche with tan sand			65				
20	Tan caliche with sand	>2000		70				
25	Red dry sand			75				
30	Red dry sand Dense layer of caliche	242		#	Comme	ents: T.D 40'		
35	Red fine sand	142		#				
40	Red fine sand	313						
45				#				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor * L.S. = Low Staining

^{*} H.S. = Heavy Staining



Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

Coordinates: 32.480704 -103.425094

Elevation :

Date: Tuesday, October 22, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WL	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10	Black gravel and sand Black gravel with sand grey gravel and tan sand Tan sand and gravel Fine dry tan sand Dense layer of clay Tan sand and gravel Red fine sand Dense layer of caliche Red sand fine	(ppm) 940 240		50		Comments: T.D 30'	(ppm)	(ppm)

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : 212C-MD-01742

Location: Lea Co, NM

Coordinates: 32.4800551 -1 03.425712

Elevation :

Date: Tuesday, October 22, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WI	- Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10	Black gravel damp black gravel damp tan sand / gravel Tan sand and gravel Caliche with tan sand Dense layer of caliche Caliche sand tan Red sand dry Dry red sand	>2000		50		Damp red sand Comments: T.D 55'	400	
35	Dry red sand			+				
45	Dry red sand Damp red sand	1,200 1,100		#				
50	Damp red sand	440		Ŧ				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



Soil Drilling Log with Field Testing Results

Project Name: Kaiser St SWD

Project No.: 212C-MD-01742

Location: Lea Co, NM

 $\textbf{Coordinates}: \ \ \, \underline{32.480613\ \text{-}103.425790}$

Elevation :

Date: Tuesday, October 22, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Black brown gravel Tan black gravel and sand Tan sand dry brown tan sand Brown tan sand Tan caliche with gravel	Depth (ft.) WL	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
20	10	Black brown gravel Tan black gravel and sand Tan sand dry brown tan sand Brown tan sand Tan caliche with gravel Tan caliche with gravel	(ppm) 242 480	PID	50				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

TETRA TECH

Borehole ID: BH-25

Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

 $\textbf{Coordinates:} \ \ \, \underline{32.480517\ \text{-}103.425836}$

Elevation :

Date: Tuesday, October 22, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WL	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10	Black gravel Brown sand with black gravel Brown sand Tan sand w/ caliche Caliche with tan sand Dense layer of caliche Dry red sand Dense layer of caliche Red dry sand	520		50		Comments: T.D 25'		

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

Coordinates: 32.480445 -103.425753

Elevation :

Date: Tuesday, October 22, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WL	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
5	Black and brown sand Black and brown sand Black sand and gravel Tan sand			50				
10	Tan sand Tan sand with calcihe			65				
20	Tan sand with caliche Soft caliche	800		70				
30	Red sand	699		75				
35	Red sand Red sand	500 480		#		Comments: T.D 35'		
40								
45								

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining

TETRA TECH

 $\textbf{Coordinates}: \ \ \underline{32.480752} \ \textbf{-103.425214}$

Borehole ID: BH-33 Soil Drilling Log with Field Testing Results

Driller: Scarborough Drilling

Project Name : Kaiser St SWD Date : Tuesday, October 22, 2019

 Project No.:
 212C-MD-01742

 Sampler:
 Conner Moehring

Location: Lea Co, NM

Elevation : Method : Air Rotary

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10		Black gravel with sand Black gravel and sand Brown sand with clay Dry brown sand Red sand with gravel	400 280		50		Comments: T.D 20'	(фрт)	фрт

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD Date : Tuesday

Project No. : 212C-MD-01742

Location: Lea Co, NM

Coordinates : 32.480939 -103.425204

Elevation :

Date: Tuesday, October 22, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) W	L Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10	Black and brown sand Black and brown gravel and sand Dry brown sand and clay Dry brown sand Dry red sand			50				
丑	Dry red sand Dense layer of caliche Caliche cobbles	1,600		70				
35	Dry red sand Dry red sand	540		 		Comments: T.D 40'		
45	Dry red sand	400						

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

Coordinates: 32.481099 -103.425226

Elevation :

Date: Monday, October 21, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) W	L Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
°┰┌	Black and brown gravel and sand			50				
#1	Black and brown gravel and sand			#1				
5	Brown and tand sand			55				
10	brown sand and caliche			60				
15	Brown sand			65				
20	Dense layer of calciche			70				
	Red sand			75				
30	Red sand			#		Comments: T.D 50'		
35	Red sand with caliche pebbles							
45	Very dense kayer of calcihe			=				
45	Very dense kayer of calciche			#				
50	Red Sand			\pm				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining

Soil Drilling Log with Field Testing Results

Project Name: Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

Coordinates: 32.481235 -103.425211

Elevation :

Date: Monday, October 21, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) Wi	- Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	NL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
	Black and brown gravel and sand Brown tan gravel			50				
5	Tan caliche Dense layer of caliche	7,260		55				
10	Brown tan sand	1,620		60				
15	Brown/tan sand	460		65				
10	Fine tan sand	600		70				
25				75				
30				#		Comments: T.D 20'		
35				1				
40				#				
45				#				
50				Ξl				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining



Appendix C

Progress Meetings notes

Progress Meeting Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 07/28/2021

Meeting Time: 8:00 am, Wednesday July 28, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, Wednesday August 4, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Maria Pruett		mpruett@slo.state.nm.us	NM State Land Office
Dusty McInturff		dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	Jenni@permianws.com	Permian Water
			Solutions
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting: None. We're launching new today.

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

At SLO / Merchant Livestock request;

Pot hole left from gas pipeline locate has been backfilled Cattleguard has been cleaned out and reset.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Weather Delays:

Two Week Look Ahead:

Hope to start construction of new road next week, pending responses from one call. Numerous pipelines on site to cross over/add fill. At the staging area install a Liner down with berm to prepare for Phase 2. Field meeting with Tetratech, to kick off the plan; excavate material under old battery tank, soil testing at excavated depths, refill with clean material.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Establishing contact with pipeline owners for ROW. Pipelines marked and flagged clearly. New cattle guard will need to be installed 30-50' back from road to avoid Enterprise pipeline. Then add fence on Eastern perimeter to fence livestock out.

Critical Path Considerations: Complete Phase 1 so Phase 2 can begin. Make contact with pipeline owners for ROW so field work can begin. Faith offered assistance with contacting ROW owners.

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Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Damaged tanks have been removed. Test Well #1 drilled.
- 2. Test well #2
 - a. Installed by end of Phase 1. SLO likely wants to keep as monitoring well. Dusty and Clair to determine if Test Well #2 needs to be moved due to being in the way of new tank battery location. Get with Maria and Ryan when known. Chris Cortez submitted paperwork to OSE to plug #1 and drill #2; awaiting approval from OSE, but plan is to perform work mid-end of August.
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. Item #3 Confirm green outline just needs to be excavated to 1' and refilled. Will be close to new tank battery location.
 - b. Item #4 Will SLO consider geosynthetic clay liner instead of bentonite clay membrane mat? Dufrane has had success with this and will send product info to SLO to review.
 - c. Dusty stated concerns with excavation depths greater than 19' may require separate engineering plan; how would they proceed if this occurs? SLO will evaluate samples at 8-12' as they go to determine if shallower depths are acceptable. If samples indicate deeper excavation is still necessary, a new plan will be devised to accommodate an engineering plan to address the new safety concerns.
 - d. Item #5 Are the purple outlined areas recent or legacy off-pad spills? 10 RP's on file for Kaiser site. Determine owner of PW line to South of lease road may be historical spill by another operator? Both sides to look into this further. PWS does not believe these are from Kaiser site.

Assign Follow Up Tasks For New Business:

Verify Date and Time of Next Meeting: 8:00 am, Wednesday August 4, 2021

Adjourn: at 9:00 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 08/4/2021

Meeting Time: 8:00 am, Wednesday August 4, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, Wednesday August 11, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Maria Pruett		mpruett@slo.state.nm.us	NM State Land Office
Dusty McInturff		dmcinturff@dufrane.com	Dufrane Construction
Josh Brooks	617/584-2889	jbrooks@dufrane.com	Permian Water Solutions
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes: Faith made an update to the minutes Permian sent, but Permian did not receive. Requested for updated document to be resent.

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

SLO needs product specs of geosynthetic clay liner (GCL) for Maria and Ryan to review. RFI can be submitted for plastic liner consideration.

Phase 2 Purple Outlined areas: Permian expressed concern that these are off lease. SLO said Permian is responsible for investigating what happened, when, was a C-141 filed, etc and presenting the research to the SLO. They have done no investigation, just reviewed Google Imagery.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

One Calls still pending. Only one pipeline has been cleared, rest are still in conflict or unable to reach. Dusty will file 'no response' with NM 811 by end of day so they must respond within 24 hours. Dusty is working with Enterprise. No excavation has been started yet due to lack of one call responses. Equipment/cattle guard is being mobilized to site in anticipation of being cleared to start road construction soon.

Weather Delays:

Two Week Look Ahead:

Hope to receive pipeline operators' requirements for building over their pipelines. If it's just running material over, hopefully fieldwork can begin next week. Need to work with Enterprise more in depth to determine the exact road placement and cattleguard placement with regard to their pipeline ROW. Likely still at least 1 week out from starting fieldwork due to communication with pipeline operators.

Josh asked if the lease acreage could be reduced now that Test well #1 has been drilled. Faith will look into it and respond.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Permian is concerned with the oil/gas lease directly adjacent to the South and how to safely excavate this area. SLO requests a new site plan showing the new tank battery location and the approach to completing the work. Permian wants to have (1) road constructed for safe traffic flow, (2)

remediate Phase 1, old tank battery area, (3) establish lay down area, install liner, berm it up, stockpile material, (4) receive approval of Phase 1 remediation, and then new tank battery will be put in.

Critical Path Considerations:

Josh wants the testing and feedback from the SLO/NMOCD to be done as quickly as possible, so equipment isn't sitting idle. He can provide a drone shot of progress and send to Faith and Ryan to expedite.

Dusty is concerned with excavating so close to the oil well to the South and establishing a safe slope. Josh confirmed what Permian needs to do to address the Phase 2 purple outlined areas off lease – do our research, summarize, and share with SLO and we'll go from there.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Josh asked if we just dig everything down to 15' and have Tetratech do testing instead of digging until we see clean dirt and stopping to test if shallower than 15'. Maria said that stopping and testing shallower may work for normal spill, but this site had decades of spills. Faith confirmed that 15' would be necessary and we could talk once we have test results to review.
- 2. Test well #2
 - a. SLO wants the location of this well along the West side of lease, not the NE corner. Preference is between the two most Southern Phase 2 blue dotted outlines. Clair is concerned with the fieldwork flow of this since excavations are required around this location. Josh said they'll get out there and work up revised site plan and possibly complete shallow remediation first, replace soil, then drill Test #2 well?
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. Clair questioned the closure criteria of 15' and how SLO arrived at this. Clair mentioned the NMOCD has areas that need to be dug out in between the 15' blue outlined areas. SLO has results from prior operators and determined that a blanket 15' for an area made more sense than varying different depths within an area. SLO and NMOCD have different requirements, and this is a general overlayed area, not GPS field accurate.

Assign Follow Up Tasks For New Business:

SLO requests a new site plan showing the Test #2 well location, research results of off pad spills (purple outline), and the technical specs of the geosynthetic clay liner and plastic liner.

Permian/Tetratech requests the data the SLO is looking at for the previous samples/spills and the updated minutes from July 28, 2021 meeting that Faith circulated.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday August 11, 2021

Adjourn: at 9:07 am

- *Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

SI

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TFH
 - 7,000 mg/kg CI*
 BTEX ND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- easplan may change subject to sample data from soil and water testing.***



Progress Meeting Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 08/11/2021

Meeting Time: 8:04 am, Wednesday August 11, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, Wednesday August 18, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> – upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
David Gallegos			
Dusty McInturff		dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent RFI for plastic liner and product specs for Geosynthetic Clay Liner (GCL). Ryan and Maria have been unable to review, but Ryan said he would review today and didn't have major concerns. Faith approved the GCL, but they will not approve the plastic liner.

Phase 2 Purple Outlined Areas: Jenni has started research through the NMOCD online system but wants to look more in depth at a few items, discuss internally with Dusty and Clair, and summarize findings to present to the SLO. Permian will try to have this prepared for next week's meeting.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs. Recent submission for plastic liner was not approved.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty has met with Enterprise, Centennial, and DCP. Enterprise wanted a hydrovac truck to find line and they want 2' cover over pipeline. Centennial has two lines aboveground; they want 2' cover. DCP has two lines and they also want 2' cover. They've started to cut the road in and cover the pipelines. They've started subgrading prep on road for caliche to come in and cattleguard placement. The site is being cleaned while covering potholes and making ground more accessible for traffic flow. They've started removing underground infrastructure, conduit, piping around battery area. The staging area across the road has not been worked on yet.

Revised site layout was sent showing new battery, new road, staging area and pipeline locations.

Weather Delays:

Two Week Look Ahead:

Dusty hopes the staging area will be complete and to complete the road. It requires hauling in 1000 yards of material and hopefully the trucks hauling in will be reliable. It should take 3-4 days once they get moving though.

Clair and Dusty will work on spotting Test #2 location to add to revised site layout. SLO wanted it along Western side of old battery area because it was a hot area. SLO and Dusty/Clair will email throughout week to try to firm up location.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Nothing major at this time. Dusty said there is evidence of cattle around the location. Merchant has livestock out there. Fences will need to be put up to keep livestock segregated from the roads and staging area.

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. We're working on everything, nothing to add from either party.
- 2. Test well #2
 - a. Both sides will correspond over the week regarding the well location. SLO may want it to be a monitoring well.
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021

a.

Assign Follow Up Tasks For New Business:

Determine location of Test #2 well.

Meeting #2 minutes send for Final email circulation.

Summarize research of Purple Outlined Areas.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday August 18, 2021

Adjourn: 8:35 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Sit

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #4

Project: Kaiser State #9 Contract: SW-330 Today's Date: 08/18/2021

Meeting Time: 8:00 am, Wednesday August 18, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, Wednesday August 25, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Lots of rain at the end of last week and over weekend causing delay because they don't want to tear things up in the field with heavy equipment.

Test well #2: Dusty and Clair sent proposed location to Faith and Ryan to review. It will be drilled as a permanent monitoring well, but remediation still needs to be able to be done around the location. Dusty and Clair think this location is still close to the SLO's hot spot area (near borehole #27), but it won't affect remediation efforts. Ryan is OK with the location. Dusty will let Atkins Engineering know they can move forward with the location and that it will be placed as a permanent monitoring well. One calls were placed for the location and August 19, 2021 is the date Atkins is scheduled to come out.

Safety:

Site Observations: Lots of rain. Surface needs to dry out more to do earthwork.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs. Recent submission for Test well #2 location was approved.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty was in the process of subgrade & finish grade on the new road, but the rain halted work. He was able to find 350 yards of caliche and is working on credit app approval from Mack Energy for future material. Some caliche is on the road and the cattle guard is on site, but the ground needs to dry out more before the road can be completed.

All pipelines have been covered with 2' except the Enterprise PL and a DCP PL. The Enterprise PL was found at 38" and 2' will go on top, but they want to use the soil from the cattle guard to cover it. DCP can't confirm if their PL on site is live or abandoned yet. Dusty asked them to come spot the line in the field since it may run within the excavation area, but they have not confirmed when they will do this yet. This will affect Phase 2, not Phase 1.

Weather Delays: Heavy rain delaying earthwork. Forecast appears sunny for upcoming week.

Two Week Look Ahead: Assuming the site dries out enough to pick up earthwork again, Dusty has liner to establish the laydown area. Ideally, they will haul material off instead of stocking it up in the laydown, but they'll need to see what happens once they are able to start digging. Phase 1 battery area is just too wet to excavate now.

Clair will be on site to mark boundaries for excavation this week. Hopefully mid-week next week excavation can begin if surface dries out enough.

Atkins Engineering to drill Test well #2 tomorrow. They will let it sit for a couple of days and then get samples for lab testing. Faith requested results be sent to the SLO and NMOCD concurrently. Dusty and Clair agreed.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate

sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Heavy rain has delayed field work.

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Still working on it, but rain has delayed earthwork. Need to wait for surface to dry out more.
- 2. Test well #2
 - a. Location approved. Atkins Engineering will be on site August 19, 2021, to drill as permanent well.
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. So far research on Purple outlined areas across the road has not yielded obvious incidents/spills reported in these locations.

Assign Follow Up Tasks For New Business:

Test well #2 should be completed and samples obtained for laboratory testing. Summarize concise details of Purple outlined areas research data for SLO to analyze. Get with Emily Hernandez to see if more information is available.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday August 25, 2021

Adjourn: 8:32 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Sit

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 7,000 mg/kg CI*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #5 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 08/25/2021

Meeting Time: 8:04 am, Wednesday August 25, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, September 1, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's.

Test well #2 has been drilled and set as a monitoring well. It has metal casing and bollards around it. Tetratech's scheduling was a bit crazy, but they will low flow and test the well on Thursday August 26, 2021. Test results are expected to be back by the middle of next week.

Safety:

Site Observations: There was some sunshine and wind to help dry out surface but there was a little bit of rain last Saturday.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

The new road has been completed. Dusty has started mining material for the berm (to be stored in the staging area across the road) from the Merchant pit down the road. Tetratech was out to mark the Phase 1 excavation area and excavation has started. Dusty is running all their trucks and stockpiling material but they are working to secure more reliable truck and labor from third parties; it has been difficult to keep people committed. They've started excavation in the SE corner and will work their way N. 10-day weather forecast does not show rain.

Remaining pipeline issues – the DCP line is marked. They want us to pot hole but they have not confirmed is the line is active or inactive (live or dead). It may be located in the Phase 2 area. It is 5' deep and if it is live then 15' may be difficult to excavate around. If it is dead, DCP may require certain protocol for working around the line so they don't lose their ROW.

Dusty has been working with DCP contact Mario Camunez, 575-988-8764. He's a field guy that responds to one calls, so we may need help finding a DCP decision maker in the area to move forward. Faith and Ryan will review their ROW data and try to find a contact with DCP that Dusty can speak with. Dusty thinks the line is about 400' running N-S through Phase 2 area. He'll update the location on his KMZ file and circulate so Faith can review within the SLO GIS data to assist.

Weather Delays: 10-day forecast looks promising for sunshine!

Two Week Look Ahead:

Dusty is hauling Phase 1 material out. It is a large amount of dirt to be pulled and put back. Logistically he's trying to utilize the trucks to dump contaminated dirt and then rehaul clean dirt back. He needs to determine a suitable space for stockpiling the good dirt and basically continue excavation activities so that Clair/Tetratech is able to get on site and do their work.

The fence needs to be put up around the new road access.

The temporary liner needs to go in for the laydown area across the road.

Anticipating an area of 100 x 80' for a laydown area for the material that will be used to construct the berms. Plastic liner will be laid out under material. Faith said to update SLO as this task progresses further along.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to establish DCP communication regarding the status of their pipeline which may run through Phase 2 area.

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Working on Phase 1 excavation. SLO will assist Dusty with obtaining a DCP contact to determine the course of action for their pipeline.
- 2. Test well #2
 - a. Well has been drilled and completed as permanent monitoring well. Plan is to obtain samples August 26, 2021 and receive results next week.
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. Purple outlined area research is underway. We contacted Emily Hernandez and Mike Bratcher with the OCD to see if they had more details on a few incidents we identified. Dusty is also taking photos of the areas.

Assign Follow Up Tasks For New Business:

Test well #2 laboratory results should be in next week.

SLO will try to find DCP contacts for Dusty to reach out to.

Permian will continue to seek approval of remediation work plan from OCD so both agencies concur with field objectives.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday September 1, 2021

Adjourn: 8:27 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface

water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

- 511

Site outline



Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum SC.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #6 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 08/25/2021

Meeting Time: 8:06 am, Wednesday September 1, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, September 8, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's.

Test well #2 has been drilled and set as a monitoring well. Tetratech obtained samples Friday, August 27, 2021. Hopefully samples will be back at the end of this week or early next. Groundwater was at 71'.

The crew is disassembling offload station. Once offload station is disassembled, they will move to temporary fencing around containment liner across road for unload area. The crew will then move to access road fencing. Equipment is blocking the area off from cattle currently. Hopefully this will be completed by end of week and fence around new road can be built. Cattleguard is in.

Dusty is still working through DCP personnel for details pertaining to their pipeline and Phase 2 excavation.

Safety: Concerns with DCP line being active and affecting Phase 2 excavation.

Site Observations: Weather has been dry.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty working on DCP pipeline still. He spoke with Jordan Britton, the SLO-provided contact. She pushed it to Isiah, the original line locator Dusty spoke with last year. He originally told DCP to cut and reroute line, but it was not done. Line is Active, 3" poly, either gathering or gas line. Claudia with DCP called and will get with her supervisors and Dusty will update her after today's call with more information. DCP will allow excavation up to 2' to line, which Dusty is not comfortable with. They'd have to hydrovac to find line depths, but Dusty is concerned with getting close to active lines. This impacts Phase 2, but if Phase 1 side wall samples are impacted, the East and West walls of the pipeline will be affected. Faith wants Permian to obtain a waiver from DCP that DCP will accept full responsibility for anything that happens. Dusty thinks it would be easier if they reroute the line but needs SLO help with how this affects DCP's ROW or if SLO could make them reroute. Faith will check with the ROW division. Dusty will communicate today's meeting with DCP and submit RFI to SLO to keep record. Expect DCP to take a week or so to communicate internally.

Weather Delays: 10-day forecast looks promising, no rain.

Two Week Look Ahead:

Hoping excavation will be completed and bottom will be reached so Clair/Tetratach can obtain samples. If he can find more trucks it could be completed in two weeks.

Old tanks are being stored on West side of site/Phase 2 area. Once Phase 1 is complete, Josh will get involved with rebuilding the new tank battery. Need to have third party assess integrity of tanks to determine if they can be used.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to establish gameplan for DCP line.

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Working on Phase 1 excavation. SLO and Dusty will work on communication with DCP regarding their active pipeline.
- 2. Test well #2
 - a. Well has been drilled and completed as permanent monitoring well. Samples obtained August 27, 2021 and awaiting lab results.
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. Purple outlined area research is underway. Emily Hernandez and Mike Bratcher with the OCD did not have anything new to add. Cory Smith is an Environmental Engineer assigned to review the remediation plan. We just started sending him requested information. He also did not suggest any new places to search for incidents. He noted it was unlikely that older data would be linked up anywhere and their filing systems and personnel changes over the years resulted in an incomplete system for tracking incidents and pits.

Assign Follow Up Tasks For New Business:

Test well #2 laboratory results should be in next week.

SLO will discuss DCP pipeline issue internally with ROW and Legal. Dusty wants to know if DCP should be responsible for the remediation if they won't sign a waiver or reroute the line.

Permian will continue to seek approval of remediation work plan from OCD so both agencies concur with field objectives.

Permian will try to summarize all research pertaining to Phase 2 purple outlined areas to 'make our case' that these are not a result of the Kaiser #009 incidents.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday September 8, 2021

Adjourn: 8:38 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #7 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 09/08/2021

Meeting Time: 8:03 am, Wednesday September 8, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, September 15, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Cory Smith	505/419-2687	Cory.Smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's.

The temporary fencing is complete around new access road and laydown area across the road. The berms and liner are in place at the staging area across the road.

Test well #2 has been drilled and set as a monitoring well, MW-1. Tetratech obtained samples Friday, August 27, 2021. Groundwater was at 71'. Samples were received last night; they showed no benzene or BTEX, but chloride concentrations of about 3500. They forgot to test for TDS and have

asked the lab to do this. Results will be sent to the SLO and OCD. Cory asked if we had sample of produced water from tanks to know its chloride concentration, but we do not.

Cory/OCD wants to see the drilling logs and well construction. Tetratech will send their logs to Dusty and he'll obtain the drilling logs and well construction from Atkins Engineering to forward everything to Cory and SLO.

Safety: Concerns with DCP line being active and affecting Phase 2 excavation.

Site Observations: Had some rain but not enough to shut down fieldwork.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Fencing and containment built and lined. Still hauling dirt and stockpiling. Dusty could use more trucks to get it done faster but that has been difficult to find. They are still working to get to total depth so Clair/Tetratech to perform sampling. Dusty conservatively estimates they are about 55% there.

Cory/OCD has reviewed the Tetratech remediation work plan dated January 2020 and the SLO plans. He asked Dusty to submit both directly to him as a single file with a C-141 with all incident numbers listed. He'll expedite on OCD's end with their conditions for approval and he will send it to SLO so there is no competing data between agencies. Cory wants sampling protocol to be 400 square feet, 20' x 20', grab samples. It was 200 square feet before. Ryan approves this.

Cory/OCD mentioned their top 4' has different closure criteria but the SLO plan should cover that. They are OK with the 15' sampling depth; it may not be needed everywhere but needed at some depths so that is fine. OCD is not concerned with GCL until sample results are received. If it isn't necessary due to results being under sample limits, then we won't deal with it. Ryan is OK with this. If GCL is needed, OCD would prefer it to be 8' deep to get below the pipelines out there.

Cory/OCD requested sampling notifications be sent directly to his email and Ryan's and to physically mark sampling zones. Tetratech will flag them in the field and anticipates at least one week to obtain samples with two people sampling. Cory is good with backfilling after approved samples without seeking approval. Clarification of plan for digging out requested. Dusty and Clair are excavating all of the Phase 1 area, starting with the Eastern portion, treating the soil as contaminated, and then will begin sampling.

Weather Delays: 10-day forecast looks promising, no rain.

Two Week Look Ahead:

Hoping excavation will be completed and bottom will be reached so Clair/Tetratach can obtain samples. If he can find more trucks it could be completed quicker. Will use a machine in hole to shape up floor and walls to increase safety for testing portion.

Old fiberglass tanks are being stored on West side of site/Phase 2 area. Once Phase 1 is complete and backfilled, Josh will get involved with rebuilding the new tank battery. Need to have third party assess integrity of tanks to determine if they can be used. Old steel tanks were hauled off. When this stage is reached, Dusty will get with SLO with more details.

No new RFI's needed at this time. SLO will review OCD's conditions for approval. Cory hopes to complete this by end of this week, early next.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to establish gameplan for DCP line.

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Working on Phase 1 excavation. SLO and Dusty will continue to communicate with DCP regarding their active pipeline. DCP Midstream field rep Johnny Grenados met Dusty on site last Thursday August 26th to walk the line with GPS software. DCP rep will go up the DCP chain to relay the situation, so we are still in holding pattern with this. Dusty revised kmz showing updated data and circulated to all. He used Google Earth to overlay SLO remediation areas, asked if SLO had a GPS spot for anything and they did not, just Google Earth. While building the revised kmz he noticed the Southern line of the blue box is really close to Enterprise's ROW but it may be too soon to tell and we may not have to dig under it either. Dusty will make sure Cory has revised kmz. Relayed it's a 3" polyline and DCP is uncertain what it is carrying. They may have purchased the line and older pipeline records are dicey/hard to find. Faith has contacted the ROW division for 'as built' plats or something to help but hasn't heard back yet. Jenni asked if there was anywhere else that we could try to find pipeline plats or records and no one could think of anywhere else.
- 2. Test well #2
 - a. Well has been drilled and completed as permanent monitoring well. Samples obtained August 27, 2021 and need to test for TDS.

- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. Purple outlined area research is still in progress. Jenni briefly spoke with Cory about these areas and he briefly looked and didn't see anything jump out. He mentioned the quality of the data may be bad for older incidents. These areas will not be considered for the OCD's conditions for approval. Jenni can request the OCD to help confirm why some incidents may not be closed out yet. They may have inspection notes not available to public. Dusty has field photos of plastic liner sticking out of ground we will include with summary.

Assign Follow Up Tasks For New Business:

Test well #2 laboratory results, logs, and construction data will be sent to SLO and OCD. SLO will discuss DCP pipeline issue internally with ROW and Legal. May need help putting pressure on DCP to respond.

Permian will continue to work with Cory/OCD to gain their conditions for approval. OCD will send their conditions for approval to SLO to review, so both agencies concur with field objectives.

Permian is working to summarize all research pertaining to Phase 2 purple outlined areas to 'make our case' that these are not a result of the Kaiser #009 incidents. Older incidents, inconsistent records, and multiple pipelines running through area have added more queries and research to sort through. Jenni is continuing to work on this and wants to be extremely thorough. Josh has been unable to review and weigh in also.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday September 15, 2021

Adjourn: 8:59 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

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Site outline

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Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #8 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 09/15/2021

Meeting Time: 8:05 am, Wednesday September 15, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, September 22, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's.

Test well #2 has been drilled and set as a monitoring well, MW-1. Tetratech obtained samples Friday, August 27, 2021. Groundwater was at 71'. Results for TDS showed 9,590 TDS. Results were sent to the SLO and OCD. Data needs to be discussed by SLO because it shows groundwater contamination.

MW-1 drilling logs and well construction from Atkins Engineering and handwritten drilling logs from Tetra Tech have been sent to Cory/SLO.

Safety: Concerns with DCP line being active and affecting Phase 2 excavation.

Site Observations: Had some rain but not enough to shut down fieldwork.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Excavation is still underway. Dusty estimates they are at 65% with this stage. Dusty could use more trucks to get it done faster but that has been difficult to find. They are leaving an area intact to maintain current traffic flow pattern. They are still working to get to total depth so Tetra Tech can perform sampling.

Faith asked if there were any issues with people or critters coming on site. Dusty and his guys haven't seen cattle on site but they're seeing signs that something may be getting in although fences and cattle guard are intact. Game cams may be utilized to monitor overnight activity.

Cory/OCD sent a draft condition for approval to SLO, who will review and communicate with Cory. Dusty and Jenni will send Cory the merged work plans and C-141 he requested; it's just been busy.

Weather Delays: 10-day forecast looks promising, no rain. Although Dusty said this last week and it ended up raining a bit a few days.

Two Week Look Ahead:

Dusty still looking for more drivers/trucks to move more dirt. Still hoping excavation will be completed and bottom will be reached so Clair/Tetratach can obtain samples. Once he reaches depth it will slow down a bit as they shape up floor and walls to increase safety for testing portion.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to establish gameplan for DCP line.

Critical Path Considerations: Nothing new, just getting enough trucks and making sure site is secure overnight.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Working on Phase 1 excavation. Still working on making contact with the right DCP personnel that can assist us. Faith spoke with Cory about this and he said generally speaking during a remediation like this the operator of the gas line can pressure it down during excavation but that agreement is between the two operators. Dusty has an idea that they could cut the line at the North and South side and loop it around to connect while during remediation. After they can lay it back in if necessary for ROW. Faith said if this becomes the plan they can help with temporary ROW approval. Dusty will call DCP again. Faith spoke with their ROW division and they're unfamiliar with this situation they think it's typically dealt with between operators.
- 2. Test well #2/MW-1
 - a. Well has been drilled and completed as permanent monitoring well. Samples obtained August 27, 2021.
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. Purple outlined area research is still in progress. We'd like to be able to include the new incident that was discovered yesterday. Jenni would like an idea of how many lines are running through this area.
 - b. Late yesterday, September 14th, Dusty received a call from his field guys about a busted line near the Kaiser laydown area across the road. They walked the line and found blue San Mateo flags from one call report. Jenni found San Mateo contact info linked to Matador on the OCD site. Dusty called Matador and found they are affiliated with San Mateo. They sent an inspector out to track line. He's 90% sure it's theirs and will track it back to the nearest meter. Dusty went on site today and can see where the line burst. He estimates it may be 25-30 bbls of water that looks pretty clean and the flags were blue for fresh water. He'll send a pin drop and pictures to SLO. Matador is supposed to send their safety team out for further inspection today; they thought it may be fresh water. Line is located 30-45' from road, near Kaiser laydown area and purple scarred area at a mesquite bush. Dusty said there are lots of lines out there above ground and dipping below ground. He doesn't believe a driver could have trucked over the line to cause it to burst.

Assign Follow Up Tasks For New Business:

Merged SLO and Tetra Tech work plans and C-141 to Cory/OCD.

Permian is still working to summarize all research pertaining to Phase 2 purple outlined areas to 'make our case' that these are not a result of the Kaiser #009 incidents. Faith acknowledged the lack of data that industry maintains on their lines and that SLO has been able to collect is unfortunate. We'd like to evaluate the recent incident with the Matador/San Mateo line.

Dusty will send new incident location and pictures to Ryan and Faith. He'll tell Matador they need to get with SLO about this.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday September 22, 2021

Adjourn: 8:54 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

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Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #9 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 09/22/2021

Meeting Time: 8:02 am, Wednesday September 22, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, September 29, 2021

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	Cory.Smith@state.nm.us	NM Oil Conservation Division
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business: There are no outstanding RFI's.

Safety: Dusty unavailable.

Site Observations: Dusty unavailable.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Excavation is still underway. Dusty emailed Faith on 9/21/2021 that he was unable to make the meeting but that they were still hauling dirt off to reach specified depth.

Dusty and Jenni sent Cory/OCD the merged work plans and C-141 he requested. Cory/OCD sent their conditions for approval to all parties including SLO via email on 9/21/2021. Cory has linked up the information to the OCD Online to each relevant incident number. Their timeline is 90 days for completion; however, an extension may be given with good cause as long as PWS can prove they are continuing to work towards the end goal.

Weather Delays: Cooler weather.

Two Week Look Ahead:

Dusty unavailable. Continuing excavation.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to establish gameplan for DCP line.

Critical Path Considerations: Nothing new.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

1. Ryan Man has heard from Kayla Tilman w DCP to get a decision made about the gas line situation for phase 2 workplan. They will work with Dusty.

Assign Follow Up Tasks For New Business:

- 1. We will catch up on Dusty's question (email 2021-09-21) regarding joint conditions of approval in our meeting next week.
- 2. Cory Smith will be on leave and will not attend next week's meeting.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday September 29, 2021

Adjourn: 8:08 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Sit

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #10 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 09/29/2021

Meeting Time: 8:11 am, Wednesday September 29, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, October 6, 2021

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

	,	, 1 8 1/	
Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's. DCP line and busted water line.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Excavation is still underway and they're at the point of stacking dirt on location that needs to be hauled off. There is a new delay with hauling the dirt off due to road construction on 176 at the entrance road to the lease. It's about ½ mile to East and 3 miles to West. The trucks are getting stopped and having to wait up to 15-20 min to pull out. It looks like they are expanding/widening the road. Everything is excavated except 30% is still intact for Phase 1. OCD's conditions for approval list a deadline right before Christmas. Hopefully Phase 1 will be complete, unsure of Phase 2 due to new traffic situation.

Dusty has spoken with Kayla in the DCP ROW Dept and one of their field ops guys. Yesterday they said they'd allow Dufrane to excavate around their line. They'll blow it down and isolate the line. They won't hold Dufrane or Permian responsible if there is damage to the line and they'll repair it if anything happens. Dusty suggested cutting and rerouting the line around the excavation area and they were not sure on this. It's about 120-150'of line. Dusty read their email to everyone. Faith requested getting something more official in writing from them on their letterhead and told Dusty to relay that SLO will need this. Dusty wants the location specifics tied to the agreement also.

Weather Delays:

Two Week Look Ahead:

Continuing excavation of last section, stockpiling dirt, and hauling bad dirt off. Reach 15' and clean hole up for Tetra/Clair to obtain samples.

SLO has authority to also obtain samples. When 15' is reached, they requested to give Ryan a couple of days' notice in case he wants to obtain samples or witness sampling. Tetra/Clair would like a week notice; scheduling is getting crazy for them.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Road construction at 176 has created new logistical challenges with hauling the bad dirt off. Unsure how long they'll be working at this location.

Critical Path Considerations: Nothing new.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

1. Ryan Man has heard from Kayla Tilman w DCP to get a decision made about the gas line situation for phase 2 workplan. They will work with Dusty.

Dusty will work on getting DCP agreement on their letterhead about excavating around their line. OCD and SLO won't issue joint conditions for approval; they will remain separate but SLO is open to discussion on specifics if situation arises. They have different closure standards but there should not be too much difference. Sampling results are key to next steps. SLO hopes that so much material has been removed that the results will be acceptable. Do not backfill until samples are reviewed by all. SLO will try to review results quickly so there is not a big hole sitting in the field for an extended period of time.

2. Jenni is working on summary and exhibits for [Matador spill on 9/14/21]. They called Ryan and said they thought it was less than 5 bbls but have not followed back up when Ryan asked them for details. Ryan will reach back out to them. Dusty said the line has been fixed but it does not appear they have been out to remediate anything. Jenni did not find anything on the OCD site under their entity names or ULSTR yet. She can email Emily Hernandez to see if they received notification.

Assign Follow Up Tasks For New Business:

Dusty will obtain something from DCP relieving liability while working around their line.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday October 6, 2021

Adjourn: 8:28 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #11 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 10/06/2021

Meeting Time: 8:05 am, Wednesday October 6, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, October 13, 2021

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

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Faith Crosby	505/827-5849	fcrosb	y@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.si	mith@state.nm.us	NM Oil Conservation Division
Dusty McInturff	617/584-2889	dmcin	turff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@	permianws.com	Permian Water Solutions
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Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business: There are no outstanding RFI's.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty said they are in 'dirt hauling mode' now. There was heavy rain last Thursday-Friday with a shower over the weekend that shut the site down. They started hauling again yesterday since the site has dried out. Hauling is the current focus, but they'll get back to excavating soon hopefully. The road construction at 176 is still hit or miss with delaying truck traffic. It just depends on if you catch the through traffic when pulling out on to the road. Otherwise, you will wait a bit. The same section of road is still under construction as was last week.

The DCP agreement has not been formalized yet. Dusty sent Kayla with DCP an email request last week for something on their letterhead with more site details listed but he hasn't received anything back or heard anything back yet. He will reach back out to them by the end of this week. Faith asked how long the process of pressuring the line down may take. Dusty estimates 2-3 weeks depending on the depth of line and amount to excavate around it. Plus, they'll need to get Tetra Tech down in the hole and complete testing. Cory suggested to expedite the lab results and hopefully get results back in 1-2 days.

Weather Delays: Heavy rain on Thursday September 30 – Friday October 1. Another small shower over the weekend kept site from drying out until yesterday, Tuesday October 5.

Two Week Look Ahead:

Continue hauling dirt off and then they will finish the last bit of excavation work and clean the hole up for safe sampling by Tetra Tech.

Cory asked for more details on excavation – how many cubic yards, how many trucks, what type of trucks, time to landfill and back? Dusty said they have about 10-11,000 cubic yards left, and they consistently have six (6) belly dump trucks with 18 cubic yards capacity. It takes about 1 hour and 20 minutes to reach the landfill. Each truck takes about six (6) loads a day. It is estimated that it will take about 15 days to haul off the remaining 10,000 cubic yards, assuming there are no delays due to things out of our control (weather, labor).

Cory mentioned ways to expedite the process – more trucks, expedited lab results, hauling clean dirt in when trucks come back. Dusty acknowledged all of this and mentioned the trucks and labor sourcing has been an issue since the beginning of this project and is an issue in general in the oilfield as business has picked back up for everyone. It's been tough to secure since it must be contracted out.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate

sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Road construction at 176 is still ongoing at this location causing slight trucking delays.

Critical Path Considerations: Nothing new.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Cory and Faith would like current site photos of the status of excavation with date and time-stamps. Dusty will obtain and email these to everyone.
- 2. Phase 2 workplan, issued by separate email on 07/23/2021
 - a. Cory will respond to Jenni's email that was sent to Emily Hernandez asking about the process and timeline for reporting spills to the OCD and incident numbers being assigned that are searchable to the public. The Matador/San Mateo flowline burst discovered on September 14 still has not shown up online. Faith is going to ask Ryan if he's received more information from them. We're uncertain of the amount and material that was released. Dusty will resend photos to Cory and Faith he took in the field. Cory said incident numbers are generated instantly online when an operator submits the notification of release. These are required to be called in within 24 hours if the amount exceeds 50 bbls liquid/500 mcf, reaches a waterway, causes a fire or injury. They must be submitted in writing within 14 days if the amount is 5 bbls liquid/50 mcf. It is possible paper filings mailed to field offices may take longer to be entered into the system, especially with teleworking from Covid. Cory said ultimately it is a selfreporting agency and they can't police everything in the field so if there's talk of a release that is older that is not online it is likely that it was not reported to them. Jenni mentioned not wanting to tattle-tale on other operators; the recent release just happened right near an area we are being asked to look into for the Phase 2 remediation plan. Cory said that if it's on our lease, the OCD and SLO could hold us responsible though. He'd like to see pictures.

Assign Follow Up Tasks For New Business:

Dusty will follow up with DCP to obtain something from them relieving liability while working around their line. He will also send pictures of the Matador/San Mateo burst line.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday October 13, 2021

Adjourn: 8:32 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

SI

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum S'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #12 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 10/13/2021

Meeting Time: 8:02 am, Wednesday October 13, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, October 20, 2021

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Clair Gonzalez	432/260-8634	Clair.gonzales@tetratech.com	Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's. No old business.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty said they're continuing to haul dirt off and Monday they started excavating the remaining portion of Phase 1.

Dusty has not heard from DCP at all regarding the formal letter from them relieving liability of damage to their line during excavation around it. He's called and they have not returned his calls. He'll keep trying to get something from them. Ryan has not heard from them either. Faith said as long as we're in accord and we have record that Dusty has been trying to reach out, then our records will show that DCP has not done what has been requested by Dufrane, to <u>put in writing</u> DCP's agreement to; 1. allow excavation around their line, and 2. accept the responsibility for any damages.

Weather Delays: No rain delays. It's getting chillier outside.

Two Week Look Ahead:

Continue hauling dirt off and then they will finish the last bit of excavation work and clean the hole up for safe sampling by Tetra Tech. They've scheduled Tetra Tech to begin testing on Monday, October 25. Clair said they're aiming for five (5) days of testing with two people on location. The samples will not be expedited at the lab. They'll turn in samples at the end of each day to avoid overwhelming the lab. It should be a standard 5-day turnaround.

Cory asked for more details on excavation – how many samples, how are they marking, and reminded them to email 2-day notification to OCD and SLO. Clair said 200 samples and for every 400 square feet they'll collect a 5 point composite sample. She noted they will pin flag the corners of the sample location versus the center, per Cory's suggestion.

Cory asked for the status of field photos. Dusty will take them today while he's on location and email to OCD and SLO.

Dusty confirmed that the truck situation is still the same; they're doing what they can with what they can find. The road construction has opened up both lanes. Equipment is staged on location so work is not completed, but it is not active at the moment in front of our lease road egress.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: Nothing with Phase 1. Jenni is still working on the Phase 2 issues.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Cory, Faith and Ryan would still like current site photos of the status of excavation with date and timestamps. Dusty will obtain and email these to everyone.
 - b. Continue excavation so sampling can take place.

Assign Follow Up Tasks For New Business:

Dusty will continue to follow up with DCP to obtain something from them relieving liability while working around their line. He will also send current photos of the status of Phase 1 excavation to OCD and SLO.

Jenni needs to circulate last week's meeting #11 minutes for 48 hr review to all.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday October 20, 2021

Adjourn: 8:16 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

SI

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

***Plan may change subject to sample data from soil and water testing. ***



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #13 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 10/20/2021

Meeting Time: 8:09 am, Wednesday October 20, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, October 27, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's. The 'Purple Area Phase 2 Summary' is still outstanding from Permian. Jenni should have it wrapped up on her end to send to Josh for review within the next week.

A letter from DCP relieving Permian and Dufrane from damage liability has not been completed yet. They sent a letter that was lacking detail. Dusty emailed Kayla/DCP yesterday asking for more detail and if they'd consider letting Dufrane reroute the 120' of pipe during excavation. He mentioned they have certified poly-welders that can put it back together. He spoke with Johnny, their field rep, about this and they both agreed it would be a good idea. This would avoid a line hanging at 5-8' since excavation depth is 15'. Cory/OCD suggested excavating, testing, and backfilling sections so the entire

line isn't suspended and using sandbags or props to hold the line up. Dusty acknowledged; it would just add more time versus cutting the line and performing mass excavation and testing.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane is still excavating and hauling dirt off. They have contacted Centennial regarding their adjacent lease and the Southern wall of the 'pit'. They're working on benching and cleaning up the pit for testing.

Weather Delays: None.

Two Week Look Ahead:

Dufrane hopes to finish up the detail work in the pit this week so the Tetra Tech technicians can start sampling. They are scheduled to start Monday, October 25, 2021 and it should take 5 days. Dusty emailed SLO and OCD this and will email them if anything changes. Dufrane will continue to haul old dirt off (not excavate) and stockpile clean dirt during testing. Hopefully soil samples will be clean, and they can backfill. Dirt must continue to be hauled off to accommodate space before more excavation can be done. We'll need Josh on a call soon to discuss the options for setting up the new tanks after Phase 1 completion, and see if that is still his plan. OCD doesn't have issue with this, just that Permian must have all phases completed before injection authority can be reinstated.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: Nothing with Phase 1. Jenni is still working on the Phase 2 issues, but Dusty has concerns with the areas across the road. There are lots of lines running through the purple areas. He isn't sure where they go; he's followed some 2 miles in the field. The Goodnight line is underground. He expects delays with communication trying to figure this out within the current time frame. Faith/SLO said those areas may not be taken into consideration with Phase 2, but rather Phase 3. They will discuss internally. Cory/OCD said the purple areas aren't in the ROW for the well pad, which is their main concern.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Dusty has conveyed to Faith and Ryan concern with the Southern wall of the Phase 1 pit. It is very close to the adjacent Centennial lease and he is concerned with having enough room to safely benchmark and excavate. SLO provided Centennial contacts and Dusty spoke with 5-6 people. They came out and flagged their assets this morning, October 20, 2021. There's 20' to their lease and 44-45' to their wellhead. Centennial wanted to view our test results. Dusty updated his one call and had to manually include Centennial as they do not show up.
 - b. Cory and Dusty discussed soil composition and excavation techniques. It was suggested that an excavator can take samples if getting in the pit is not safe. Details of the Centennial well, 30-025-20461, Wilson Deep Unit #1 were discussed relating to their old reserve pit and where it may be located, if it is near where we are sampling or if it could have been located on the Kaiser lease. The location of 40' is getting close to where their reserve pit may have been located and their lease is very small so there aren't many places for the reserve pit to have been located. Dusty hasn't seen any plastic liner peeking up on location, although the well was drilled in 1963 and there may not have been a plastic liner. Cory said it was kind of dangerous to dig so close into their site since it may dig into their contamination. Our tank battery could have been on top of their reserve pit. When Tetra Tech last sampled, the old tank battery area had the worst results. Cory suggested sampling in two halves – top half 0-8' and then lower half because if they've leaked into our site this may be evidenced in the deeper portion. Sampling all at once may not reveal this. He also said that most spills are from reserve pits or tanks, not the wellbore. Jenni mentioned her research had revealed a few spills on the Centennial lease that were old and had no information linked up; they are also not linked up to the well details on the OCD site. Dusty asked if we'd be on the hook for remediating if it was from Centennial's lease and that there's been so many operators in this area it's hard to know who was where first. Example of the Kaiser site being on top of the existing DCP line. Faith said we'd have to see what the samples show and to plan to excavate onto the Centennial lease down to 15' and bench as required.

Assign Follow Up Tasks For New Business:

Dusty will continue to follow up with DCP to obtain something more detailed from DCP relieving liability for damages to their line during excavation. He'll keep SLO in the loop.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday October 27, 2021

Adjourn: 8:55 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Sit

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg C1*
 - STEKND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #14 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 10/27/2021

Meeting Time: 8:03 am, Wednesday October 27, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, November 3, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
	0 0 - 0 - 1 -	J	
Clair Gonzales		Clair.gonzales@tetratech.com	Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

A letter from DCP relieving Permian and Dufrane from damage/financial liability has not been completed yet. Dusty has not heard back from DCP after requesting this. He will keep Faith/SLO in the loop if SLO needs to step in and contact DCP. There is still some time before this is critical.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane finished up the pit and sampling started on Monday. They're still hauling dirt off. They were able to dig and bench at the South wall adjacent to the Centennial lease. They did dig 15' onto the Centennial lease. They cannot dig much further in due to the location of the wellhead. The South wall looks problematic, but they hit rock at the bottom of excavation. Hopefully sampling will be completed this week and we'll all await results.

Weather Delays: None.

Two Week Look Ahead:

Finish sampling and receive lab results by end of next week. Continue to haul the dirt off. Pending lab results, the next step would be to backfill the pit and subgrade to prepare for new containment and battery. The plan is still the same, just had to remove more dirt than anticipated initially. Backfilling would begin at the North side of the pit. There are operators interested in sending their water when facility is complete. The OCD conditions for approval have a deadline just before Christmas. This is obtainable if everything goes perfectly. Cory Smith/OCD was on site Monday and Dusty walked him around. He was not on the call today, but Dusty said he seemed content with the progress and that Permian is working towards completion. As long as we're still making progress, the OCD will work with Permian on the deadline.

The plan for sampling was prepared by the Tetra Tech field tech. He spent the first day on location gridding and mapping the site. It appears he is starting at the North side and working South, sampling the side wall first, then the floor.

The South side of the pit hit rock. Dufrane would have to blast the rock or hammer hoe the rock to break it up if further excavation is necessary. Faith/SLO said they wouldn't require Dufrane to blast or hammer the rock. Dusty spoke with Cory while he was on site about the rock permeability and possibility of having to excavate the rock. It appears that the rock would be an acceptable stopping point preferably. Cory/OCD noted that the remediation in the rocks/etc would be dependent on the delineation data that would be required. Lab results will be a key component.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: Nothing at this time.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Wait for lab results to determine next steps.

Assign Follow Up Tasks For New Business:

Dusty will continue to follow up with DCP to obtain something more detailed from DCP relieving liability for damages to their line during excavation. He'll keep SLO in the loop.

Jenni has sent the purple area summary for review internally. Hopefully it will be ready to submit to SLO next week.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday November 3, 2021

Adjourn: 8:26 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area





Test Well #2

^{***}Plan may change subject to sample data from soil and water testing.***



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting #15 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 11/03/2021

Meeting Time: 8:03 am, Wednesday November 3, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, November 10, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Josh Brooks	617/584-2889	josh@permianws.com	Permian Water Solutions
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

A letter from DCP relieving Permian and Dufrane from damage/financial liability has been received. They did not address cutting the line and rerouting during excavation. A field rep, Chase Guy, and field supervisor, Claudia Dabney, were listed on the letter. Dusty will reach out to them about cutting the line. A DCP field rep will be on location during excavation; it may be determined in the field that cutting the line is acceptable once they see what is going on.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Tetra Tech completed field sampling Thursday afternoon and completed notes and mapping on Friday. So far there have not been any lab results received. Tetra Tech does not anticipate needing to go back on site this week. They took 167 samples. They didn't field screen all the samples, but they did spot-check them. A couple of spots looked questionable along the South side. The lab called Clair/Tetra Tech to let them know they were backlogged and would not meet the standard turnaround time. She asked for preliminary samples to be sent as they have them.

Dufrane continued to haul off bad dirt and monitor the sampling process. He will continue to haul off bad dirt and bring clean dirt in while awaiting lab results.

Cory/OCD joined call and explained his statement from the #14 minutes that remediation in the rocks/etc would be dependent on the delineation data that would be required. He said that liquid in soil versus rock moves differently. OCD requires operators to delineate and see what's in the rock. Sometimes they let them leave it and sometimes they do not. So lab results are key. Cory thought most samples looked like they were pretty clean except the SW corner.

Faith/SLO asked how the OCD handles situations with remediation when it's right against another lease. Cory/OCD said he'd need to check but based on his field observations it was not likely Centennial's. Aerials show the Centennial site has been set up the same way for a long time. The wellhead is close but it's not likely the contamination source. More delineation data would be needed, sampling in high-low pattern to show contamination pattern to try to prove contamination source.

Weather Delays: None.

Two Week Look Ahead:

Hopefully soil samples are clean, and they can start backfilling with clean dirt and hauling off bad dirt. The plan is that if samples are clean, they'll backfill from the North end to the South end. Truck traffic will continue in a large circle hauling out bad dirt, hauling in clean dirt.

Clair will circulate results when received. She'll include a kmz file with a field map with slopes and everything needed to understand the sample locations.

Cory/OCD said they reached out to Matador about the pipeline burst that we let them know about last month. They said it was 5 bbls, so not required to report. OCD will keep on it; they had a large release in Carlsbad they've been working on. Dusty is glad Cory came out to the field to lay eyes on everything out there.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: Just need to figure out the South side and working around the DCP line soon.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Wait for lab results to determine next steps. Hopefully we'll have some by the end of this week, early next week.

Assign Follow Up Tasks For New Business:

Dusty will continue to follow up with DCP to see if they'll allow Dufrane to cut the line during excavation.

Jenni has sent the purple area summary for review internally. She asked Clair/Tetra Tech for assistance. Hopefully it will be ready to submit to SLO by the end of this week.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday November 10, 2021

Adjourn: 8:34 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

Phase 1 Remediation Area

★ Te

Test Well #2





Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #16 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 11/10/2021

Meeting Time: 8:04 am, Wednesday November 10, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, November 17, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Jenni Usher Clair Gonzales	512/820-8772 432/687-8123	jenni@permianws.com Clair.gonzales@tetratech.com	Permian Water Solutions Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

A letter from DCP relieving Permian and Dufrane from damage/financial liability has been received. They did not address cutting the line and rerouting during excavation. Dusty spoke with a new DCP contact Monday that told him that if Dufrane/PWS wants to cut and reroute the line then they would be financially responsible for cutting, storing, and reinstalling the line for service. He is going to send Dusty a cost estimate for this. We're about a month out from this phase of the fieldwork, depending on the test results and backfilling progress. The current understanding is that the financial

responsibility is negated if Dufrane damages line during excavation, but not to remove it up front. Dusty is dealing with a whole new set of people within DCP now.

Update on Matador/San Mateo line burst from September: Dusty said it looked like someone had been out to scrape the surface in a 50' x 50' area around the incident location. Unsure where the bad dirt went (possibly our bad dirt pile - haha). Cory/OCD asked if they cleaned up the lines out there and Dusty said it looked like there were still pieces of cut up pipe out there. Cory/OCD had asked them to file a C-141 and he'll check in with his coworker Chad for progress.

Clair/Tetra Tech received preliminary data from the lab this morning. They still need to undergo QAQC procedures, but hopefully results will come in this afternoon. She did a quick run through of the 200 pg summary and thinks the results look like we'll be OK. Some TPH levels were a bit high – she needs to look further into these locations. Chlorides appeared below 7,000, a couple may have been at 9,000, she needs to verify this. A couple of spots had nominal BTEX but were still under the OCD threshold. Clair emailed her kmz sampling map to everyone. She'll update this map and circulate a final when all results are in.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty said more dirt was hauled off and clean dirt was brought in. Basic site cleanup. He had to pull a couple of guys off the Kaiser to work other jobs.

Weather Delays: No cause for delay. Foggy and cooler temps in the AM.

Two Week Look Ahead:

Waiting on samples and analysis. If all is good, backfill starting at North end working South. Continue to haul dirt. Personnel can be pulled back in when needed to backfill.

Clair/Tetra Tech's goal is to receive all the data from the lab and create analysis table with detailed sampling map to circulate for everyone's review.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: The road construction has started up again; it is causing slight delays with hauling dirt due to one lane being open.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Wait for lab results to determine next steps. Hopefully we'll have them this week.

Assign Follow Up Tasks For New Business:

Jenni is finalizing the purple area summary and will send to Faith and Ryan within 24 hours.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday November 17, 2021

Adjourn: 8:21 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

SI

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #17 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 11/17/2021

Meeting Time: 8:02 am, Wednesday November 17, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, December 1, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

A letter from DCP relieving Permian and Dufrane from damage/financial liability has been received and forwarded to the SLO. Dusty has not heard back from Steven Wynn since they spoke last week about the cost estimate for cutting and rerouting the line during excavation. Faith/SLO said they may have to issue a letter to DCP that they would be responsible for contamination under the line because it is in the area that SLO wants PWS to dig.

Cory/OCD checked with his coworker Chad on the status of the Matador line burst. He said Matador is awaiting sample results for closure. They were asked to submit a release notification to get something in the OCD system. Faith/SLO asked for the OCD to share the sample results upon receipt.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Similar to last week, Dusty said more dirt was hauled off and clean dirt was brought in. They've been on autopilot with this while the soil sample results come in.

Soil sample results discussion – Ryan/SLO said most results were below the 7,000 mg/kg chloride and 1,000 mg/kg TPH threshold. There was some contamination in the SW corner they'd like to see removed. SLO is unsure if it's a safety issue to dig out 10' safely around DS-2, DS-3 and SW-6, NE side and SW side. SLO also wants removal on the way out at SW-01 on the NE side by the ramp. They asked how clearly the DCP line was marked in the field. Dusty said he's asked them to come out to mark it with wooden stakes instead of flags so it's easier to see but they have not done this yet. Ryan will try to get a hold of Kayla or Claudia with DCP to see if SLO can expedite getting the line marked because they'd like to see 10' excavation and backfilling started this week. They want 10' removed entirely, not sampled.

Cory/OCD comments on soil samples – none of the sidewall (SW) samples meet OCD threshold because they're over 6,000 mg/kg in the top 4'. He'd like a background area sample for comparison to see how salty the soils are in that part of New Mexico. Clair can try to grab a sample upgradient. He's OK with backfilling boreholes to 6'. For the SW corner, he'd recommend digging 4' out and it should be safer for OSHA and benching is not required. The top 4' are an issue for him since they exceed 6,000 mg/kg chlorides. He's wondering if 10' off the sidewalls with delineation holes will give us a a better idea. SW-5 failed, but since it's so close to the other operator's lease he doesn't want to chase that down. SW-4 and 5 were over. SW-17, 18, and 19 results were a little lower. He suspects we're at the tail end of contamination due to the depths.

Clair/Tetra said the last samples of this area were from 2019. SW-4 and SW-5 samples were clean at that time. She'll review the old data in detail and come up with a gameplan for everyone's review to address the top 4'.

Cory/OCD thought it made more sense to dig down to 4' and sample versus digging out 10'. He said it may end up going to 10', but the blue area benched and BH-13 and 14, SW-20 showing good numbers so the impact may be from something else. He suggested hydro excavating the DCP line so it is easier to see in the field since PWS needs more excavation towards the direction of the line.

Clair/Tetra confirmed next steps – issues are with SW-1, 3, 6, 7, 8, 9, 10, and 11. Moving out 10' laterally to 4' deep to obtain more samples, possibly using a backhoe to dig a trench and collect test holes may be best option. Tetra uses two different field screening methods to test in field. If field screen results are unfavorable, lab results will be necessary for official results. Dusty will try to push DCP to mark their line. Cory and Faith are good with backfilling the orange area to 6'. The use of GCL liner will not be required.

Weather Delays: No cause for delay.

Two Week Look Ahead:

Begin hauling good dirt into excavation area in preparation for backfilling while avoiding western edge of pit. Continue hauling bad dirt off location.

Dusty will give the field guys Wednesday-Friday off for Thanksgiving Holiday next week. We will all take off from next week's call for the holiday as well. Correspondence regarding the DCP line and further sampling will still take place between all parties.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Further sampling needed laterally out from SW-1, 3, 6, 7, 8, 9, 10, and 11 at 4' deep. Background Chloride sample needed for OCD. Clair/Tetra to coordinate.

Assign Follow Up Tasks For New Business:

Try to get DCP out on location to mark their line where it runs through PWS's facility.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday December 1, 2021

Adjourn: 8:39 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

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Site outline

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Phase 1 Remediation Area

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Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #18 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 12/1/2021

Meeting Time: 8:02 am, Wednesday December 1, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, December 8, 2021

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

DCP agreed to flare the sour gas off their line, isolate it, and remove their line. They will not hold Dufrane or PWS financially responsible for any damages. Dusty will keep everyone updated on further communication with DCP and status of the line removal.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Similar to last week, Dusty said more dirt was hauled off and clean dirt was brought in as they back fill.

Tetra Tech was in the field doing field screenings in the areas of concern. They kept hitting refusal at about 1'-2' in all locations they needed to sample so they had to stop and reassess. New plan is to excavate out 10'W to 15'W x 4' deep and various lengths per sections of the pit wall.

Dusty said they are removing spoils from the north side pit side stockpile to access the areas to further excavate and can commence on the east side. The DCP line needs to be removed to complete excavation on the west side.

Weather Delays: No cause for delay.

Two Week Look Ahead:

Continue hauling bad dirt off location and bringing in clean dirt to back fill. Work on digging the horizontal lines out for resampling.

Plan for DCP to come out and remove their line so the west side can be accessed.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Further sampling needed laterally out from SW-1, 3, 6, 7, 8, 9, 10, and 11 at 4' deep. Background sample needed for OCD. Clair/Tetra to coordinate.

Assign Follow Up Tasks For New Business:

Try to get DCP out on location to mark their line where it runs through PWS's facility.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday December 8, 2021

Adjourn: 8:18 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI* - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting #19 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 12/15/2021

Meeting Time: 8:02 am, Wednesday December 15, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, December 29, 2021

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
575/392-8736	rmann@slo.state.nm.us	NM State Land Office
432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
	575/392-8736 432/687-8123	

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty and Cory were unable to join the call today. Cory sent an email to Dusty late last night requesting a formal extension request and date for completion of certain field requirements since it does not appear the December 22, 2021 deadline for the OCD Conditions for Approval will be met. We will discuss further when both are available.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Since Dusty was unable to join the call today there is nothing to speak of for prior week performance.

Clair was able to update that they are working to get the horizontal lines dug out and once complete they will resample.

Weather Delays: No cause for delay.

Two Week Look Ahead:

Dusty emailed that they'll continue to haul off bad dirt and back fill with clean dirt as well as excavation. His email stated that they are looking to complete additional excavation on the north and east side tomorrow, 12/15/2021.

DCP said they would be out to remove their line this week, but they had not made it on site as of 12/14/2021. The west side excavation will commence once DCP has removed their line.

Next week's meeting will be canceled for the Christmas holiday, but if anyone needs anything they can email/call Faith and Ryan.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Merchant Livestock has questioned the source of the caliche that Dufrane is bringing in. Ryan and Faith said that they do not have standing in this project and we do not need to give them any information if they reach out to us. They are the lessee, not landowner.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Further sampling needed laterally out from SW-1, 3, 6, 7, 8, 9, 10, and 11 at 4' deep. Background sample needed for OCD. Clair/Tetra to coordinate. Soil to be removed.

Assign Follow Up Tasks For New Business:

Dusty and Permian need to formally request an extension to the OCD's Conditions for Approval by December 20, 2021 and show good cause for why an extension should be granted.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday December 29, 2021

Adjourn: 8:12 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Sit

Site outline

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Phase 1 Remediation Area

 \bigstar

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg C1*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5°.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #20 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 12/29/2021

Meeting Time: 8:01 am, Wednesday December 29, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, January 5, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Josh Brooks	617/584-2889	josh@permianws.com	Permian Water Solutions LLC

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty and Cory were able to join the call today. Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory has been out of office and will respond after he reviews the request.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

DCP removed their pipeline and excavation is complete along the North, East, and West sides of the pit. Approximately 75% of the initial phase 1 area has been backfilled to the first bench height of 7-8'. The North, East, and West walls aren't completely backfilled though since some sampling is still taking place and they don't want any potentially spoiled dirt to slough into the clean backfill. They're still hauling bad dirt out and bringing clean dirt in to backfill. The North side is completely clear, but the West side still has approximately 70% of the bad dirt to remove from location.

Tetra Tech was on location last Thursday the 23rd to obtain soil samples. Lab results are expected at the end of this week or early next week. The field tech, Zeke, indicated that the North and East sides looked OK, but the West side may require further excavation. Results will determine the next steps.

Weather Delays: No cause for delay, just windy.

Two Week Look Ahead:

Dusty emailed that they'll continue to haul off bad dirt and back fill with clean dirt. Josh said they're trying to stay methodical with the process in the field as the scope of work continues to increase.

DCP indicated they'd like to put their line back in the same location and there has been no determination of when this may need to take place. We'll wait for lab results before reaching out to DCP on this.

Cory said that additional conditions of approval are to be expected. The timing of removing spoiled soils from location isn't efficient and 70% left is too much. He said they need to utilize more equipment and more resources to move this forward quicker. Faith also agreed that they'd like to see this done quicker and asked if it was possible to dedicate more resources.

Josh and Dusty think the equipment on site is sufficient, but the trucking has been the biggest hold up. Right now three trucks are down awaiting parts to be shipped so repairs can be made. Supply chain issues are delaying the parts from arriving. Original scope of work was 14,000 cu yds and is now

at 24,000 cu yds, and further excavation may still be needed along the West side of phase 1 moving towards the phase 2 area.

Cory responded that initial planning with delineation efforts could have helped anticipate if/where further sampling may have been necessary. He said based on the lease history it could have been anticipated that the scope of work would likely increase.

Faith agreed we all want this done quicker. There is still another location, the Dorstate, that will be the next large remediation project. Faith will be working from Michigan for the unforeseeable future and Ryan may need to take over some meetings.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

More trucks are needed to continue to haul the bad dirt off location quicker. This has been a constant struggle.

OCD conditions for approval deadline of December 22, 2021 was not met.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Soil sample results needed to determine if further excavation is necessary, or if backfilling can commence to close out phase 1.

Assign Follow Up Tasks For New Business:

Cory/OCD to review Permian's request for an extension to the OCD's Conditions for Approval and provide response.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday January 5, 2022

Adjourn: 8:17 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - o SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.
- **Plan may be subject to change depending on data from soil and water samples.**
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #21 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 1/5/2022

Meeting Time: 8:08 am, Wednesday January 5, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, January 12, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory has not responded yet.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty said they continued to backfill the pit except along the Western edge of the pit. They left a section to the North open for truck traffic flow. He estimates 90-95% has been backfilled to 7-8'. 30-35% more of the spoiled dirt along the Western edge of the pit has been removed.

Soil sample results were received from the lab last night. The North and East sidewalls were below 600 mg/kg chlorides and the OCD regs. The West sidewalls were not. The top 4' is still pretty hot. They took 5-point composites per section so they can't tell the contaminated depths between 0-4', probably all 4'. It's more horizontal delineation moving out West, so expanding further out to the West. It may merge into phase 2.

The wellhead is about 15-17' away on the West side. Dusty asked how close they should get to it? None of us are sure. Clair said she thought 5-10' because it's a safety issue. We need Ryan and Cory to weigh in on this.

Weather Delays: It's getting colder, but the forecast shows sunny skies until this weekend. Then partly cloudy.

Two Week Look Ahead:

Dusty said that they'll continue to haul off bad dirt and backfill with clean dirt. Since the North and East results were acceptable, Faith said Dusty can continue to backfill those and maybe up to the first bench on the West side. Dusty said there are now 3 benches along the West side.

Clair will summarize findings for Ryan and Cory to review to determine next steps.

Hopefully we can come up with a practical plan between all of us on how to continue with phase 1 and into phase 2. We expected the West side to be troublesome due to the location of the flow lines and load lines.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate

sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

OCD conditions for approval deadline of December 22, 2021 was not met.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Soil sample results from Western wall need to be analyzed by Ryan and Cory.

Assign Follow Up Tasks For New Business:

Cory/OCD to review Permian's request for an extension to the OCD's Conditions for Approval and provide response.

Clair to summarize soil sample lab results for Ryan and Cory to review and assist with determining next steps along Western side of phase 1 pit.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday January 12, 2022

Adjourn: 8:21 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #22 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 1/12/2022

Meeting Time: 8:00 am, Wednesday January 12, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, January 19, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. PWS has not received a response from Cory/OCD yet.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty said they continued to backfill the pit except just along the Western edge of the pit. He estimates 90-95% has been backfilled to top bench at 8'. There is approximately 10% left of the bad dirt remaining along the Western side of the pit to haul out. Hopefully it will be removed completely by early/mid next week.

There has been no further excavation at this time until Ryan and Cory can coordinate on the soil sample results taken 12/23/2021 and the remaining hot areas. Proximity to the wellhead and safety excavating around it is the concern.

Weather Delays: There was a little bit of moisture yesterday, not much. It's windy and partly cloudy. 10-day forecast looks clear.

Two Week Look Ahead:

The rest of the spoiled dirt will be hauled off. They will continue to backfill the pit all the way around except for the Southwestern edge with hot sidewalls. That will remain at current backfill level until further excavation plans are stated.

Dusty said they have a couple of their trucks back on the road and were able to outsource a couple more. He reiterated that there is just a lack of CDL drivers in general. He can spend a couple of days just calling around looking for trucks, but it's mainly the drivers that are lacking. Conversation on the influx of Cuban truckers who obtained their CDL from Florida and headed West looking for work. Their experience is not up to par. There is also no young generation coming up to drive trucks and the older generation is retiring, so there are less drivers available in general. Less places for truckers to stop and rest when they hit their hours; Covid closed some rest stops down; now hiring CDL signs up around the Permian.

The three sidewall locations that exceeded the thresholds need to be reviewed by Ryan and Cory so they can determine how PWS can move forward in the field. It was mentioned that this area of Phase 1 may blend into Phase 2. This area is where the old unload station was located and various flow lines that ran to the wellhead. It's likely that historically waste haulers spilled in this area as they unloaded.

Dusty measured the wellhead is 30' away now. He thinks a 20' radius around the wellbore would be good since it's an old wellbore and he doesn't want to damage it. Ryan mentioned seeing if the OCD could defer the full cleanup around the wellhead until the well has been plugged, as part of that surface cleanup process. Then they can work around it for now.

Faith asked about the DCP line. If the line was still in the ground, it would be exposed. Dusty said the line was about 2.5' deep and they've excavated about 4' under it. It's in the current excavation area.

Dusty mentioned him and PWS want this cleaned up and the intent is to bring it back to active injection. They are cleaning up years of pollution from other operators unfortunately and it's taking longer than the OCD conditions for approval timeline or a normal remediation.

Discussion on whether starting Phase 2 is OK. Ryan is OK with it if it keeps them moving forward in the field. If Phase 1 Western wall blends into right into Phase 2, Josh will need to get involved to discuss rebuilding the tank battery. The last KMZ #7 layout didn't look like the new tank battery location would affect Phase 2 excavation, but it will reroute traffic flow. We're unsure if the OCD will allow PWS to rebuild the battery prior to Phase 2 completion. We'll also need to discuss how the remaining hot areas of Phase 1 are to be dealt with. Perhaps the wellhead ends up being an area that is left intact while excavation takes place all around it.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

OCD conditions for approval deadline of December 22, 2021 was not met.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Soil sample results from Western wall need to be analyzed by Ryan and Cory.

Assign Follow Up Tasks For New Business:

Cory/OCD to review Permian's request for an extension to the OCD's Conditions for Approval and provide response.

Soil sample results from Western wall need to be reviewed by Ryan and Cory to determine the next steps in the field. Safety radius around wellhead needs to be determined.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday January 19, 2022

Adjourn: 8:30 am

- *Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #23 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 1/19/2022

Meeting Time: 8:04 am, Wednesday January 19, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, February 2, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

(- ······)			
Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory asked PWS for additional information that is due 1/21/2022. Cory wants dates for removal of Phase 1 dirt, when Phase 2 will begin and when it will finish.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty said there is about 4,000 yds of bad dirt piled up along the Western side left and a pile of 2,000-3,000 yards near the containment 50' North of the wellhead. They need to remove the scrap pipe that was dug up. They're closing the NE corner where the old ramp was up to 7'. Hopefully that will be closed up by the end of the week. A new ramp exists in the South-Southwest side of the pit. It's been built with clean dirt. New dirt is still being hauled in for backfill.

Weather Delays: Cold, but mostly sunny during the day. Pretty normal weather for this time of year.

Two Week Look Ahead:

Discussion on continuing excavation out along Southwest where hot spots were identified. 10' safety radius around wellhead determined. Cory/OCD would still want vertical delineation to take place to confirm extent of contamination. Previous soil samples did not get this close to the wellhead. To obtain these samples, this may require use of hand auger. Current samples along Western side were not able to get past 1-2' with hand auger, so backhoe may need to dig up top pad at surface. If Clair/Tetra Tech can't 'direct push' she can not hand auger.

Dusty said we're right at the edge of the current Phase 1. They need to get site cleaned up so there's more room on location – move tanks, remove all impacted soil and finish backfilling before starting Phase 2. There's also a small caliche pit that needs to be dug down and a polyline running from the old battery to be removed. Dusty is going on PTO for a week. He'll be expecting Dufrane to continue this while he is gone. Dusty and Clair will figure out sampling plan and get with Ryan.

Cory/OCD asked where the impacted soil was being taken. It is going to a private landowner's property in Texas. This is where the good red dirt is also coming from that is being used to backfill. They're currently running 5 trucks.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

OCD conditions for approval deadline of December 22, 2021 was not met.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Soil sample results from Western wall need to be analyzed by both Ryan and Cory and gameplan agreed upon.

Assign Follow Up Tasks For New Business:

Permian to respond to Cory's request for additional info with regard to the extension request to OCD conditions for approval by 1/21/2022.

Soil sample results from Western wall need to be reviewed by Ryan and Cory and communicated to Permian. Cory responded to Ryan that he was OK with Ryan's plan this morning. 10' radius around wellhead determined for safe excavation.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday February 2, 2022

Adjourn: 8:25 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline



Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- I. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure or terrar
 - 1,000 mg/kg TPH
 - 7,000 mg/kg ti
 - STEXNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days **
- ***Plan may change subject to sample data from soil and water besting ****



Progress Meeting #24 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 2/2/2022

Meeting Time: 8:01 am, Wednesday February 2, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, February 9, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory asked PWS for additional information that is due 1/21/2022. Cory wants dates for removal of Phase 1 dirt, when Phase 2 will begin and when it will finish. Dusty has responded to this and Cory is reviewing.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty was on PTO last week. He was on site Monday and this morning to inspect. He said they started to backfill to the second lift within the pit starting from the Southern edge heading North. The large stockpile of spoils along the West side has been removed. A smaller pile of 1,000-2,000 yds still needs to be removed near the South end. All tanks have been moved from the West side of lease to the North side. The facility has been picked up and looks pretty clean. There are a few large rocks that will be removed.

Clair/Tetratech was unable to obtain soil samples last week due to staff being out with Covid. She will email confirmation to Faith, Ryan, and Cory of the new sampling date; it is expected to be next Monday the 7th or Tuesday the 8th due to snow and ice that is starting today.

Weather Delays: There is snow and below freezing temperatures expected through Friday. No one will be on the roads if there is ice on them. If it starts thawing out Friday, they'll be back to work on location. The high is expected to be 38 degrees Friday.

Two Week Look Ahead:

Clair will send email notification of the new testing date to everyone when she has it confirmed. The field plan is to dig a 15' test trench to vertically delineate. They will also use the back hoe to grab horizontal delineation samples along the West wall. The results should be back in one week.

Dusty updated the kmz file of the location to show the new extension area moving West from the original Phase 1 area. They will continue to remove the spoils, haul in clean dirt, and backfill Phase 1 pit.

Cory will try to finish his review of Dusty's extension request. He noted he'll be confirming that the waste is being properly disposed of per the applicable Texas rule.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None at the moment.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Soil sample results from Western wall need to be analyzed by both Ryan and Cory and gameplan agreed upon.

Assign Follow Up Tasks For New Business:

Cory/OCD to respond to extension request.

Soil sample results from Western wall need to be reviewed by Ryan and Cory and communicated to Permian. Cory responded to Ryan that he was OK with Ryan's plan this morning. 10' radius around wellhead determined for safe excavation.

Jenni will have to miss next week's meeting; Faith will try to record and share it with her to transcribe.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday February 9, 2022

Adjourn: 8:15 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #25 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 2/9/2022

Meeting Time: 8:04 am, Wednesday February 9, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, February 16, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Soil samples obtained on Tuesday. Tetra Tech was on location with Dusty. They dug a trench to north of wellhead 10' out and all the way down to 15'. The chloride content aren't going to be a huge issue from the field screening. The other cleaned up to around 4', but we'll have lab results by next week's meeting. Clair thinks we'll be OK past the top 4'. They did horizontal sampling to get an idea of where the 4' on the west side of the wall needs to go out. SW-8 may be another 5' out to get cleaned up. SW-7, they stepped out in 5' increments to 15' and it was still above 600, so she thinks that area may merge into Phase 2. 15' out puts them close to the safe perimeter around the wellhead. The top 4'

have to be below 600 chlorides. Below that it's 10,000 chlorides, so we're OK. The field screenings were around 1800-2000 chlorides for field screenings below top 4'. Lab results will confirm.

Clair said they're pretty much done sampling. They'll need to take SW-8 out to 5' and they'll need confirmation samples there once complete, but that's about it. Dusty and Clair will work on that excavation and Dusty will update the kmz file to show the accurate field status.

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory asked PWS for additional information that was due 1/21/2022. Cory wanted dates for removal of Phase 1 dirt, when Phase 2 will begin and when it will finish. Dusty responded to this and Cory is reviewing. Cory hasn't been able to review because he's been working on the OCD waste rule. He sent it over to the legal dept to review because of other agreed compliance orders involving the Kaiser State #9. He hasn't heard back.

Discussion on other OCD NOV's to make sure SLO is aware of everything.

Brine wells were brought up – Dunaway #1 #2 and Hobbs State #10. Faith said there were terminated mineral leases and water supply wells associated with the brine wells. Dusty confirmed Jenni was spear-heading the regulatory filings and would know more about all of this. Permian was approval to plug the Dunaway #1 and #2 and are working with wireline companies and plugging companies to plug these wells. Dusty said everything is running an additional step through our lawyers, who are communicating with OCD legal. Faith said that Mike Bratcher/OCD told her about a year ago the OCD would be focused on making Permian plug the brine wells first.

Cory/OCD said the ACO is for the Kaiser, Dorstate, AN Etz, Rice F 29, An Swd, Delaware River #2, Exxon State #3, and Rhomer. It is designed to require delineation, so while Permian is working on the Kaiser they should be going out to these other sites in order, starting with the Dorstate and doing delineation and putting together a work plan for down the line. Dusty said we're still back and forth with legal and haven't started any delineation yet. Discussion on status of ACO – is it in draft stage or out yet? Faith wants to know how the OCD compliance orders are laid out to know how the Dorstate fits into the timeline and to make sure SLO and OCD are coordinated in their efforts to resolve everything correctly and it's documented correctly. That site should not be accessible to anyone at this time. Ryan confirmed that prior Dorstate delineation plans have been prepared, but not approved. Dusty confirmed they have not accessed the site yet. Clair confirmed Tetra Tech has some delineation data on the Dorstate already.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Aside from weather delays, Dufrane continued to haul and backfill. Two front end loaders went down so they've been loading trucks with an excavator. It's slower since they're hauling to pull dirt from sides of stockpile and they weren't set up for this. This has led to there being less good dirt stockpiled to backfill. Hopefully they'll get the loaders back up this week.

Yesterday Tetra Tech was on site to perform testing. Excavator did not run during testing. Clair estimates a 5 business day turnaround on the results, so hopefully next Monday-Tuesday.

Weather Delays: It snowed, which then melted and froze. Icy conditions shut down site for about 2 work days – Wednesday afternoon through Friday noon.

Two Week Look Ahead:

Finish digging out and sampling Phase 1 extension. Continue hauling bad dirt out, clean dirt in, and backfilling. Dusty wants to clean up everything from Phase 1 before starting Phase 2 excavation.

Cory will try to finish his review of Dusty's extension request. He'll be confirming that the waste is being properly disposed of per the applicable Texas rule.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None at the moment.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Dig SW-8 out 5' more, sample. Continue backfilling.

Assign Follow Up Tasks For New Business:

Cory/OCD to respond to extension request. Soil sample results from SW-8 dig out.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday February 16, 2022

Adjourn: 8:30 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Sit

Site outline

Phase 1 Remediation Area

Test Well #2

***Plan may change subject to sample data from soil and water testing. ***



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #26 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 2/16/2022

Meeting Time: 8:04 am, Wednesday February 16, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, February 23, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory asked PWS for additional information that is due 1/21/2022. Cory wants dates for removal of Phase 1 dirt, when Phase 2 will begin and when it will finish. Dusty has responded to this and Cory is reviewing.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Clair/Tetratech was on site last Tuesday, the 8th, to obtain soil samples. She received the lab results late last night and was tabulating them this morning. She will circulate the data to everyone upon completion. The trench that was installed 10' North of the wellhead shows that the area around the wellhead will need to be excavated to 4' below surface. Below 4' the chlorides ranged from roughly1,500-3,000 range. The highest TPH below the top 4' was 190 mg/kg at 5-6' below surface. Below 7' non-detectable. No BTEX detected.

Horizontal trenches in sidewalls used field screening method to detect how far out they would need to dig. The northern areas, SW-8, would need to go out about 4-5'. One area, SW-7, looked like 15-20' out was not clean, and will likely merge to Phase 2.

Discussion on the Phase 1/Phase 2 label – can we agree that these samples will finish out Phase 1? Cory and Ryan are OK with this. Cory/OCD said it doesn't matter what phase we call it; the remediation will continue until samples are clean. He still sees the bigger bottleneck being the soil movement in and out of the facility. He questioned if every load hauled out was bringing a clean load in, how the Phase 1 pit is not backfilled completely yet, how there is still any spoil dirt on location, and the efficiency and logic of hauling the spoil dirt all the way to Texas instead of a nearby landfill.

Dusty responded that they are digging out dirt faster than it can be hauled off and clean dirt is being brought back in, but it's not an equal 1-1 haul. They have a small spoil pile left at the South end of the site and about 10,000 yds at the containment across the road. There will likely need to be a liner put down over the backfilled Phase 1 pit to place Phase 2 excavated dirt because the containment across the road is not large enough for the material that needs to be excavated.

In response to where the spoil dirt is being hauled and the efficiency, that is Josh's call. Dusty does not make the financial/operational decisions; he implements them in the field. Cory said it's the same issues every week. Jenni and Dusty acknowledge this and understand, but Josh is the owner of Permian and he makes the decisions. They are just doing as they are told and there's only so much they can do. Cory asked for Josh's email address. Faith asked to be cc'd if Cory/OCD reaches out to Josh.

Weather Delays: No mention this meeting.

Two Week Look Ahead:

All agree that Phase 1 can be complete upon this last set of sampling/excavation around the wellhead or it will be never-ending. The reality is this is going to be a huge hole at the facility due to years of leaking. Faith/SLO asked how they can help PWS keep moving forward in the field. Ryan asked if it would be helpful to take a pause on excavating to focus on hauling off the spoil dirt and backfilling the Phase 1 pit. Dusty agreed to this.

Cory will try to finish his review of Dusty's extension request. He may reach out to Josh separately. By the time these minutes were typed up Cory had emailed Josh cc'ing all.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Finish excavation of sidewall and wellhead radius that exceeded required thresholds. Backfill Phase 1 pit completely. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business:

Cory/OCD to respond to extension request.

Faith will send Jenni meeting #25 transcription since she was out last week.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday February 23, 2022

Adjourn: 8:28 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface

water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI* - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting #27 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 2/23/2022

Meeting Time: 8:04 am, Wednesday February 23, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, March 2, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

	,	<u>, 1 </u>	
Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory asked PWS for additional information that is due 1/21/2022. Cory wants dates for removal of Phase 1 dirt, when Phase 2 will begin and when it will finish. Dusty has responded to this and Cory is reviewing.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane is continuing to haul spoil dirt off and bring clean dirt in. There is still a little dirt left within the facility and the containment across the road. Dusty is working on getting two more off road trucks that can help move the dirt.

Weather Delays: Rain burst on Thursday shut things down for a bit, but don't expect precipitation over the next week, just some wind and colder temperatures.

Two Week Look Ahead:

Dufrane hopes to obtain more off road vehicles to move the remaining dirt off location so they can start digging out on the West side/Phase 2. Faith asked if there was anything SLO could do to help or if increasing the containment area across the road would help. Dusty doesn't think there's much room to increase the area due to existing ROW's and pipelines. Plus it makes more sense to just haul it all off so spoils don't hinder traffic flow. So he'd like to get it hauled out before starting excavation on the West side.

Cory will try to finish his review of Dusty's extension request. NMOCD just released their Waste Rule, so he has been slammed. He sent a follow up email to Josh asking for information on how the impacted soil is being handled and if he has considered transporting the impacted soil to a closer location in NM to save time/money associated with the additional drive time from driving to Texas. Josh has not responded yet.

If Ryan has anything to add it will be circulated via email to all.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Finish excavation of sidewall and wellhead radius that exceeded required thresholds. Backfill Phase 1 pit completely. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business:

Cory/OCD to respond to extension request.

Faith sent Jenni meeting #25 recording that Jenni needs to transcribe and circulate for review.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday March 2, 2022

Adjourn: 8:15 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- **** Flan may change subject to sample data from spill and water testing ****



Progress Meeting #28 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 3/9/2022

Meeting Time: 8:03 am, Wednesday March 9, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, March 16, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
575/392-8736	rmann@slo.state.nm.us	NM State Land Office
505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
	575/392-8736 505/419-2687 512/820-8772 432/687-8123	575/392-8736 rmann@slo.state.nm.us 505/419-2687 cory.smith@state.nm.us 512/820-8772 jenni@permianws.com 432/687-8123 Clair.gonzales@tetratech.com

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory asked PWS for additional information that is due 1/21/2022. Cory wants dates for removal of Phase 1 dirt, when Phase 2 will begin and when it will finish. Dusty has responded

to this and Cory said he's been pulled in lots of directions, but he needs to approve. Progress is progress.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane is continuing to mine clean dirt and bring in to backfill. Phase 1 pit is 75% backfilled. They're leaving the west side wall open to avoid sloughing contaminated dirt back into the good dirt. They're continuing to haul the bad dirt off site and talking to closer NM facilities to shorten the drive time. Monument wants soil samples of the stockpile, so Tetra Tech and Dusty will obtain them Thursday or Friday of this week. Josh and Cory have talked and Josh has Dusty looking into Sundance and Lea Land facilities as well for possible disposal options. Dusty said they're continuing both jobs – backfilling with clean dirt and hauling off bad dirt.

Weather Delays: None, strong winds are picking up but shouldn't cause delay.

Two Week Look Ahead:

More of the same. Haul in clean dirt and work on getting the contaminated stockpile across the road down before starting more excavation.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Finish excavation of sidewall and wellhead radius that exceeded required thresholds. Backfill Phase 1 pit completely. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business:

Cory/OCD to respond to extension request.

Jenni needs to circulate meeting #25 for review to all and send Faith the OCD orders PWS has.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday March 16, 2022

Adjourn: 8:12 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Sit

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #29 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 3/16/2022

Meeting Time: 8:04 am, Wednesday March 16, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, March 23, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

(= ·······) ······ = ······ = ····· ········ ······· / /			
Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Cory/OCD approved extension request by Dusty/Dufrane to meet OCD conditions for approval on 3/14/2022. The extension states to complete Phase 1 no later than 3/25/2022.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane is continuing to mine clean dirt and bring in to backfill. Phase 1 pit is backfilled with the exception of the west side wall to avoid sloughing contaminated dirt back into the clean pit. They're continuing to haul the bad dirt off site and have three NM facilities they're looking at to shorten the drive time. Tetra Tech was on site to obtain samples of the stockpile last Friday, 3/11 to supply to the Monument disposal facility. Hopefully results will be back from the lab this Thursday or Friday. Dusty also has the Sundance and Lea Land facilities as possible disposal options; Monument is just the closest facility to the Kaiser location.

Dusty thinks they will be able to meet the OCD's 3/25 deadline to complete Phase 1. Faith requested the updated KMZ file showing the 'new Phase 1 extension trench'.

Weather Delays: None.

Two Week Look Ahead:

More of the same. Haul in clean dirt and work on getting the contaminated stockpile across the road down before starting excavation of Phase 2. Wait for Tetra Tech's soil sample results and determine if/where the contaminated stockpile soil can go within NM.

Jenni asked what to do if results exceed the Monument disposal facility's thresholds. Cory said they can blend dirty dirt with lesser contaminated dirt to lower results, but it can not be blended with clean dirt ever. Dusty agrees this would just create more work and waste. He may blend up the stockpile.

Dusty asked for bi-weekly meetings as he is starting another large project and Faith said she'd like to keep them weekly at this time.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Finish excavation of sidewall and wellhead radius that exceeded required thresholds. Backfill Phase 1 pit completely. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business:

Dusty to circulate updated KMZ file showing the current field status.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday March 23, 2022

Adjourn: 8:11 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Phase 1 Remediation Area

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #30 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 3/23/2022

Meeting Time: 8:04 am, Wednesday March 23, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, March 30, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

		7 1 8	
Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Clair Gonzales
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Cory/OCD approved extension request by Dusty/Dufrane to meet OCD conditions for approval on 3/14/2022. The extension states to complete Phase 1 no later than 3/25/2022.

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane continued to backfill the Phase 1 pit. They're pushing for it to be done by the OCD's 3/25 deadline. Dusty is hoping they'll be ready to cap it with caliche Monday. They continued to haul off the stockpile dirt.

Sort of off topic, but Dusty had a Zoom meeting with a company that treats soil for TPH. They're getting some samples to test out and they wanted to see if the SLO and OCD had any experience or opinion on this. Clair had told Dusty that they needed to see how it encapsulates the chlorides and they should talk to Cory about it. Faith said she'd get someone with SLO named Steve Ikeda to get in touch with Dusty to discuss in more detail. Dusty is not familiar using these products, but he listened to the sales pitch and asked questions; Clair is a fan of bioremediation with TPH, but she isn't as experienced with the chloride side. She mentioned soil washing and that it could take longer, so the time/cost would need to be analyzed further. Dusty asked the company how long it would take to remediate 10,000 yards and they said 30-45 days to let the product sit and bugs activate. Dufrane wants to get with OCD, try the samples and see if it could cut down on the hauling time. Faith is not opposed, but she wants more research done first.

Clair asked if they sampled the stockpile at 50-100 cubic yard increments and thresholds were under for chlorides and TPH, would they be able to use it to backfill, and then bring in clean dirt for the top 4'? Faith thinks it would be OK.

There have been delays at the labs due to instrumentation issues. Clair received a preliminary TPH report last night on the stockpile samples, but the lab is still working on the chloride report. She hopes to have the results back in a couple of days. The TPH data was lower but wasn't at the 50 cu yd interval. 600ish TPH was the highest.

Weather Delays: None.

Two Week Look Ahead:

Complete Phase 1 backfill and keep hauling the contaminated stockpile across the road down so they can start excavation of Phase 2. Receive Tetra Tech's soil sample results and determine if/where

the contaminated stockpile soil can go within NM – hopefully the Monument facility. Test the new product and see if it may help with this remediation.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Backfill Phase 1 pit completely and cap it w/ caliche. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business: None

Verify Date and Time of Next Meeting: 8:00 am, Wednesday March 30, 2022

Adjourn: 8:15 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #31 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 4/6/2022

Meeting Time: 8:05 am, Wednesday April 6, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, April 13, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM OCD
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Phase 1 backfill is complete except the 20' west side section where they're continuing to mine material out. 8" of backfill is needed and will be capped with caliche to finalize. 50% of stockpile across the road to finish removing. Lab results came back last Friday on the stockpile, and it looks like some can be sent to the Monument facility. They'll have to take the areas with thresholds too high somewhere else. They're hauling in surplus backfill for the Phase 2 portion. They have 9 trucks running now and are making good effort.

Weather Delays: None.

Two Week Look Ahead:

Continue with the west side trench. Haul off stockpile dirt to Monument to create more room for Phase 2 excavation. Hopefully the first part of next week Phase 2 (Phase 1.5) excavation can begin & continue hauling off bad dirt. Faith clarified the plan is to continue the Phase 1.5 trench and sample for results. Dusty confirmed that is the plan. He referenced the recent kmz file showing the southwestern section of Phase 1 as the trench beginning location, and that it moves ³/₄ way up along the Phase 1 area, maintaining a 10' buffer around the wellhead. They delineated back to the well. It's a big, blended project at this point, as we thought it would end up.

Cory commented that things are still moving into place in the field. The OCD Phase 2 deadline is September, so reminded Dusty to keep this in mind. To which Dusty replied that this project is always on his mind. Agreeance among all that we're moving into Phase 2 timeline. Cory said the OCD focuses on closing out entire sites all at once. And that samples meet requirements for closure. He asked Clair if all the Phase 1 samples met thresholds for closure. Clair was having technical difficulties today but responded in the chat that everything was good except the west side wall that is still being worked on.

Faith said let's meet next week to discuss the trench and the bigger picture. If there need to be changes to the plan to accomplish this quicker or easier on site, OCD needs to know. Closure numbers must be met, but the plan on how to do this can deviate.

Cory asked about the status of the equipment that was on site last he was out there. Dusty said the tanks are on site but everything else has been removed except the guardrail around the wellhead, a power pole that ran to the old doghouse with automation equipment housed in it, and a polyline that he thinks used to be Endeavors. He needs to call them to find out. The 2-3 tanks that used to be on top of the Phase 2 area are removed. There's just some rubble that will be picked up and the polyline now. He'll send updated pictures to everyone.

Jenni reminded us to run bioremediation conversation from previous meeting by Cory for OCD's opinion on it. Dusty elaborated that he'd had a Zoom call with a bio bug company and would get samples to treat a 20 yd load for tph but was uncertain of the chloride capsulation and how the OCD viewed it. Cory asked for the name of the company, but Dusty wasn't sure off the top of his head. Cory said generally speaking, it takes longer (in situ remediation) so the September deadline may not be met. They'd want the company to prove the encapsulation timeframe. Dusty and Clair were also concerned about the uncertainty of the encapsulation timeframe for chlorides but thought tph was treated well.

Cory mentioned they've allowed soil shredding using hydrogen peroxide to clear the soil and it's worked. He also said the southeast has had success with soil washing, but he'd need to check in with his colleagues that work the area for more details. It's just running water to strip the chlorides out, not encapsulating it. RX Soils company possibly? Dusty said the company he spoke with explained they'd mix it all in a truck and let it sit there depending on how high the contaminates were. He said 3-5 days for a 20 yd batch, which does not seem efficient. Cory said he wouldn't tell them no on using the product, but this site does not need any additional kinks with it. Maybe try it on other sites.

Faith spoke with her District resource commissioner, and he had only done two in situ remediations. One was a produced water spill and the other a crude spill, but they got right on it. This site has decades of old spills Permian has inherited, so the scenario would not be the same. However, they were successful in the other projects; it just took some time.

Plan is to continue weekly meetings for the next month.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Backfill Phase 1 pit completely and cap it w/ caliche. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business:

Dusty send updated site pics.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday April 13, 2022

Adjourn: 8:29 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

---- 51

Site outline

- - - F

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum S'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #32 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 4/13/2022

Meeting Time: 8:04 am, Wednesday April 13, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, April 20, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane is continuing to haul off material. Dusty has been trying to get with the guy at the Monument facility, but he has been out of town. He'll continue to try to get in touch. They plan to dig the trench area, phase 1.5 and get Tetra Tech out to sample the top 4'. Lots of dirt to move around. Faith asked how the truck numbers were looking and Dusty said it's going well and some of them are actually calling him for work now. Everyone laughed at that.

Weather Delays: Windy. There have been fires popping up around NM and west TX, but so far nothing has gotten close enough to the site to shut things down. Dusty said since the guys are enclosed in a cab while working the equipment, the wind is not too bothersome. If there's a fire and smoke too close, they will evacuate for safety concerns. If Dusty is not on location he has a supervisor out there that can contact all the trucks. Even though they're independent truckers they maintain contact with them regularly while on the job.

Two Week Look Ahead:

Strip the phase 1.5 trench back for soil sampling. Then continue stripping back into phase 2. Continue stockpiling material on site – hauling in a load and taking out a load. There's room across the road in the containment area also to stockpile if needed.

They hope to take soil samples next week and the following week. Clair said the issues the lab was having have been fixed. She said she'd check how the lab was doing before sending in the next set up samples in case she needs to send to another lab. She said there is Cardinal in Hobbs where she can send samples to also.

Ryan asked about the stockpile sample results. Clair said the TPH was 100-600. The chlorides had three areas less than 2,000, all were below 10,000. Dusty said a couple were in the 3,000's. Ryan asked about sending it to the landfill and Dusty said Monument should take the lower samples, but not the higher ones; he needs to speak with the Monument guy to confirm.

Faith asked if anything had been started on the Dorstate. Dusty and Jenni responded that they're working on the C-141's, Tetra Tech has supplied site characterizations, and a bid to do the remediation plans for the ACO. Jenni has pulled all the incident files and needs to fill in data to the C-141's. She's run things by their attorney and they're on the right track for submitting the required items to the OCD

to comply with the ACO deadline of May 27. Jenni will give Cory a head's up email when all items are submitted. The ACO does not distinguish any order for working the sites. The Kaiser is separate since its remediation plan started before the ACO was issued, but the other sites are lumped together. The specifics of the past incidents and remediation plans will dictate the OCD's timeframes and responses to the C-141's and remediation plans. Faith said that SLO didn't intend to have Permian working the Kaiser and the Dorstate remediation projects at the same time and if she can help get us access to the facility for soil borings or anything else to let her know.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business:

Verify Date and Time of Next Meeting: 8:00 am, Wednesday April 20, 2022

Adjourn: 8:23 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #33 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 4/20/2022

Meeting Time: 8:07 am, Wednesday April 20, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, May 4, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane is continuing to haul dirt off. Last week they experienced numerous issues on location. The excavator broke and is awaiting repair. Dusty will have a bulldozer moved in from another job location to take over the work of the excavator while it is being repaired.

Dusty spoke with the South Monument facility guy and he's not comfortable with the chloride content levels. Dusty doesn't want to spend the time mixing soils to try to lower the levels so he wants to haul dirt to the Lea Land facility instead.

The truck drivers are getting burnt out from the long hours and Dusty said they are not working as efficiently. They are still hauling dirt off as generated instead of stockpiling across the road.

Weather Delays: No delays. There are still red flag warnings and fire risks for the area.

Two Week Look Ahead:

Dusty hopes to be able to sample the top 4' of the trench at the end of next week, or Monday of the following week. The mechanical failures delayed the trench from being completely dug out, but the dozer should be there tomorrow to take over. And the trucking guys are just tired and need a reset so they can come back fresh and be more efficient.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.
 - b. Clair/Tetra Tech said she thinks they can get someone out to sample the Phase 1.5 trench area at the end of next week. Faith asked for email notification.
 - c. Cory/OCD has nothing to add. Phase 1 is complete and now the September deadline to complete Phase 2 is next for the OCD. There will be no more extensions and summer will go by fast, so just meet the deadline.

Assign Follow Up Tasks For New Business:

Not directly tied to this remediation, but Dusty told Clair to proceed with their remediation plan quotes for the OCD ACO to clean up historical open incidents.

Jenni needs #31 meeting minutes confirmed so she can circulate the final version.

Faith said these meetings will go to every other week starting with the next meeting. She will circulate a new meeting invite.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday May 4, 2022

Adjourn: 8:17 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

- 51

Site outline



Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #34 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 5/4/2022

Meeting Time: 8:02 am, Wednesday May 4, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, May 18, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dufrane has hauled off much of the spoil material from the large stockpile across the road; there are about 1,000 yds remaining, so they've made a lot of progress on that. Phase 1.5 trench has been completely dug out. Dusty said they went a little more than 4' deep in some areas, maybe to 5' so he could see what it was looking like. That dirt has been moved out and stockpiled across the road.

The road construction is back. There is construction at the lease road entrance off of 176. It has resulted in a 2.5 hour roundtrip of 60 miles to haul the dirt off and return. Dusty has tapered that off to 2-3 trips per day and is putting material across the road in the meantime. The construction occurs for about 12 miles West, which is the direction they're traveling to the disposal facility. This has not caused delay with excavation on location though.

The loader that had a mechanical issue resulting in a small fire was out of service for 3 days. There were no injuries and they've been able to fix it. The mechanic is double-checking it today to determine that it may be put back in operation.

Dusty said they pulled two poly lines that were in the Phase 2 excavation area further West outside of the fence line so they are not in the way. They'd like to start Phase 2 excavation next week. He plans to leave a small boundary in place against the Western line of the property to leave room for sidewall testing. He hopes to begin excavation in the NW corner of the Phase 2 outline. He tracked the lines and said the markings on one say Red Dog/Dawg or Rebel. The other is a main trunkline that connects to a 4-1/2 that he thinks is XTO's. It's not time-sensitive at this moment to track down and contact these owners, but they will need to track them down at some point. Faith and Ryan will research on their end to see if they can help identify the lines' owners. The lines could have gone to the Kaiser at some point too. We'll all need to do some digging into it and communicate our findings.

Clair/Tetra Tech will be on location this Friday, May 6th to sample the Phase 1.5 trench area.

Weather Delays: No delays. There are still red flag warnings and fire risks for the area.

Two Week Look Ahead:

Dusty would like to begin Phase 2 excavation at the North end. On the most recent KMZ file, this is the small pit in green at the Northwest corner, then the deeper excavation area to the East that's

adjacent. He doesn't want to excavate so much dirt that they can't haul it off with the road construction time frames and he doesn't want it sitting on top of Phase 1 which has already been completed. He'll work on more truck power, or he may decide to excavate Phase 2 in increments by testing the Northern end and seeing what results look like. He could then backfill some if results are OK and then continue to excavate. He does not want to mess with a liner on Phase 1 or disturb anything on Phase 1 until they're closer to construction.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today that anyone can assist with. Hopefully the road construction does not last for very long.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Clair/Tetra Tech will sample the Phase 1.5 trench area May 6th. Email notification has been sent. Cory was not on today's call but responded to the email notification to collect BTEX samples since this is a new area. Lab results should be back by late next week and Clair will circulate to all. Ryan may be in area to swing by to witness sampling.

Assign Follow Up Tasks For New Business:

Jenni needs #31 meeting minutes confirmed so she can circulate the final version. She circulated #33 meeting minutes late and needs to double-check all minutes are up to date.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday May 18, 2022

Adjourn: 8:19 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - o SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

SI

Site outline

- - -

Phase 1 Remediation Area

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Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 7,000 mg/kg CI*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #35 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 5/18/2022

Meeting Time: 8:05 am, Wednesday May 18, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, June 1, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Clair/Tetra Tech sampled the Phase 1.5 trench area and results have been received, but not tabulated for circulation yet. She said that the sidewall samples are exceeding the chloride and TPH thresholds. She thinks the trench will blend West into Phase 2. She'll try to have the results circulated to everyone by the end of the day or early tomorrow morning.

Faith mentioned that if the new tank battery location created any soil disturbance archaeological clearance would be necessary. Dusty said the tank batteries should be placed at the Northern portion of site, along fence line, edge of Phase 1. He doesn't foresee any new disturbance and he thinks they'll use less tanks than the previous layout, so less of a footprint.

Dusty/Dufrane excavated a larger area around the Phase 1.5 trench than first planned because they saw the sidewalls did not look good as they were excavating, so they kept extending out West. They removed the spoiled dirt and hauled it out. The stockpile area across the road was hauled all the way down to a thin layer to keep a buffer layer on top of the liner to protect the liner. They're still hauling the spoil dirt to the Lea Land facility.

The road construction is still present. It has moved West from the lease entrance location, but the Lea Land facility is still located West. It's still about a 2.5 hour roundtrip of 60 miles to haul the dirt off and return. Dusty is dealing with it with some hauling to Lea Land and some stockpiling across the road to keep things flowing.

They started excavating Phase 2 in the Northwestern corner smaller area to the east of the existing pit. It will likely blend into part of the 1.5 trench, becoming one big hole. Dusty thinks Phase 2 will just go as deep as needed versus varying depth levels to make it easier for excavation. They're a couple of feet in now and hauling off bad dirt, using the stockpile area as needed. Faith asked if the two-week lookahead was the same and Dusty confirmed.

Weather Delays: No delays. There are still red flag warnings and fire risks for the area.

Two Week Look Ahead:

Dusty hopes to keep excavating until the testing depth is reached for Clair/Tetra Tech. It is a lot of dirt and he'd like to work that section first to completion, capping it off when done. Then they'll

move to the center area of Phase 2, which will end up blending some with the Phase 1.5 trench center area. Then eventually further South where the old tank battery was and the Southern edge of the 1.5 trench. He's hoping the Northwestern edge is the cleanest.

Faith asked the sampling plan for the Northwest corner. Dusty said to dig to 15'and remove all the dirt. He'll draw a line at some point and if necessary, they'll extend further South. Cory mentioned that the OCD doesn't need them to dig to 15', especially if it's removing clean dirt. The OCD still agrees with 400 sq ft sampling.

Dusty asked if they can stop and test shallower than 15' then if the soil looks clean. Faith, Cory and Ryan think that is OK. They don't think the Northwestern portion needed to go to 15', possibly 5-6'. The previous SLO engineer is not there anymore and if it looks like you can stop and test at 5' then go for it. Dusty said it would be more cost effective to try this than to dig it all out to 15' and get it hauled off with road construction.

Cory suggested everyone review the last delineation report and boreholes. Everyone will review for the deepest boreholes and their location and communicate via email for what depths they think sampling is safe to take place at. 5' may be OK for Northwestern portion and then deeper sampling for the Southwestern portion. We'll try to communicate and decide by next meeting.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Clair/Tetra Tech will circulate soil sample results from the Phase 1.5 trench area. Phase 1.5 will blend into Phase 2.

Assign Follow Up Tasks For New Business:

Everyone review the previous delineation for borehole depths to determine the appropriate excavation depths necessary for Phase 2 areas.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday June 1, 2022

Adjourn: 8:24 am

- *Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

SI

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #36 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 6/1/2022

Meeting Time: 8:02 am, Wednesday June 1, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, June 15, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Clair/Tetra Tech circulated the Phase 1.5 trench soil sample results and proposed sampling plan via email to everyone on 5/25/22. The area was excavated to 5' bgs and sidewall samples exceeded the thresholds for chlorides and TPH. Bottom hole samples exceeded for TPH. So it is proposed to go down to 10'.

Dusty continued to remove dirt from the trench. They had stripped it back to get to Phase 2 NW pit. *Clarified with Dusty – they did start to dig into the Northern side of the NW pit a couple of feet, as noted in last meeting minutes, but stopped excavating to remove the spoil dirt that was stockpiled at the Southern portion of the NW pit from the Phase 1.5 trench deepening.

They lost a day and a half due to a bad storm with quarter size hail. They got back to work last Friday and then took Monday off for Memorial Day, and they're back now. They're still removing dirt from the 1.5 trench and moving it out for disposal.

The road construction has moved West from the lease entrance location, but the Lea Land facility is still located West. The situation is better than it has been though.

Weather Delays: No delays. There are still red flag warnings and fire risks for the area.

Two Week Look Ahead:

Dusty had to remove some old garbage from the NW pit area in Phase 2 – old RR ties, timber, ranching debris. It's been an open pit area for a long time that collected debris. He's hoping to have material ready for Clair/Tetra Tech to sample by the end of next week. This would be material from the NW pit and the smaller area to the east of the existing pit. Based on the delineation reports, they thought 4-5' was sufficient for these areas. He'll need to maneuver the excavated dirt around deepening Phase 1.5 and opening up Phase 2 more so they're not bottlenecking themselves or working the dirt twice. He's hopeful that the samples will be good and they'll be able to close it up with good dirt.

The Phase 1.5 trench will need to go to 10'. Faith said she was looking at photos of an old produced water spill and it was in the area where the high readings were taken. The northern portion was like a lake. Dusty will get down to 10' and Clair will sample to see if 10' is enough. Otherwise, Dusty will reassess safety considerations with going deeper than 10'.

Ryan and Cory are OK with Clair's sampling proposal that was circulated via email. Ryan said it a good start and soil sample results will dictate if and how further testing may be needed. Cory had no issues. He mentioned the delineation report was older, so we may need to go deeper due to vertical migration, even though the SW part of the state doesn't get a lot of rainfall. He said it's OK to sample early and often versus excavating and hauling more dirt from a cost and time perspective.

Faith reminded Clair to give notification for the next round of sampling.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Clair/Tetra Tech will provide notification for Phase 1.5 10' sampling & Phase 2 NW pit and the smaller area to the east of existing pit

Assign Follow Up Tasks For New Business:

Verify Date and Time of Next Meeting: 8:00 am, Wednesday June 1, 2022

Adjourn: 8:24 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #37 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 6/29/2022

Meeting Time: 8:02 am, Wednesday June 29, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, June 13, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

The testing plan is for 400 square feet composite samples based off of Clair's delineation report: 4-5' deep on Phase 2 NW area next to the small pit. 1-2' on the small pit. Crossing over into the Phase 1.5 area, they took 2 more feet off the bottom to 10' and 1-2' out around the sidewall. The East wall of Phase 2 is actually the Phase 1.5 trench. It's merging into one big hole. *Clair's delineation report of Phase 2 area calls for the NW area next to the pit to be sampled at 4-5', the center section 5-6' deep and the southern section 4-5' deep.

Dusty said they had personnel issues the week of our last meeting. They lost 3 operators and had to move people around to do all the work. So they lost a week of work on our site, but they were able to get some guys hired and move original personnel is back on location working. They excavated last week and got things ready for Clair to come out and sample the Phase 1.5 and 2 excavated areas.

Dusty was on location and said it looked like there had been a lot of rain and there were deep ruts from the equipment. He was going to drive back through location to see how bad it was in the area where soil sampling is scheduled.

Weather Delays: It has rained for a week and there are tadpole ponds on location.

Two Week Look Ahead:

Dusty is hoping to get Clair/Tetra Tech in to sample the Phase 2 NW section, get good results and be able to backfill the area. Then he'll concentrate on the Phase 1.5 section.

Faith asked how large the spoil piles were. Dusty said it had pretty much been hauled out and now they're stocking new spoils over across the road. He has the trucks dropping off and loading up at the road so they aren't driving around within the site. Faith asked how much additional traffic used the road and Dusty said it's mostly lone pumpers coming out to check gauges and valves on the pipelines out there. They haven't had too much traffic on their road. The main lease road off of the highway has more traffic; he thinks there's more drilling and fracking going on.

Highway construction is just down to widening out the lease entrances/turnoffs now. Delays are minimal compared to what they were, maybe 5 minutes of waiting. Dusty asked one of the construction workers how much longer they would be out there and he said a couple more weeks.

Faith asked how many trucks were running and Dusty said 7-10, depending on the random issues that pop up, like blowouts, breakdowns. They joked that someone should follow the trucks throughout their routes all day long to keep them honest.

Clair confirmed to Cory that she understood his email response about upcoming sampling.

Dusty arrived at the area to be sampled and said they may need to push back to early next week (July 4th Monday) to let the water dry up. There were tadpole ponds. He asked if they had gotten much rain around Santa Fe to help with the fires. Faith said they had – they have total control of the Jemez fire by the lab and are still working the Hermits Peak/Calf Canyon one, which is not out but is under control. They've dropped crews from 2000 to 800-900. It's rained for a week every day.

Dusty said the pit is full of water. Clair confirmed they can't sample if it's too wet. She'll check her schedule and see when they can come out next week. She'll circulate notification email. Dusty will take pictures to circulate.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Clair/Tetra Tech will provide notification for Phase 1.5 10' sampling & Phase 2 NW pit and the smaller area to the east of existing pit

Assign Follow Up Tasks For New Business:

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, July 13, 2022

Adjourn: 8:21 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface

water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

SI

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #38 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 7/13/2022

Meeting Time: 8:04 am, Wednesday July 13, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, June 27, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division
Daniel Gallegos		dgallegos@slo.state.nm.us	NM SLO Water Bureau

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business: Sampling should have taken place yesterday.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Clair/Tetra Tech started by saying they were on location last week and yesterday sampling a large area. The samples sent to the lab look like they'll be OK, but it looks like they'll need to extend Phase 2 out further West and South then they'd thought. Bottom hole samples look good though. They're currently at 6-8' deep now. Faith clarified they were extending laterally out West and Clair confirmed West of the wellhead out towards the fence line.

Dusty hopped in to elaborate on previous two weeks. They had to cancel the first round of testing due to rain, then the holiday delayed fieldwork, but they got back on everything after the holiday. The entire NW area has been excavated to 4-5'. The small pit to 1-2'. Phase 1.5 has blended into Phase 2 West. They've excavated out to the center of Phase 2, about 45' to the West. They didn't go all the way to the fence line yet to manage hauling the material off the top. They've started chasing a line out to the West from the Phase 1.5 Western wall out about 25'. The Western part of Phase 2 looks OK so far. Phase 1.5 floor also looks OK. Currently just chasing that West Wall out as Clair stated.

They need to go back to the North area and try to excavate chunks to see how far they're going to have to go. The Northwestern side may all blend together. This corresponds with old aerials Faith sent previously that showed old spills. They will probably have to go out deeper. The floor is looking OK, but there may be a pocket that needs to be dug out. They want to review the recent lab results for confirmation, but the Northeast corner of Phase 1.5 has a weird pocket about 20' x 20' or 30' x 30' that truncates down with the benching. It's about 35' from Phase 1 and it's really odd; Dusty hasn't seen it before. They've hit rock though, so they can't go any deeper. Once we see the results, then we'll see what we can do.

Cory screen shared one of the photos sent yesterday of the area with a gray section of dirt to confirm it was the area Dusty was talking about. Cory said he thinks it is degraded hydrocarbons. Dusty said it smells terrible, like death and oil. Cory said it should be soft and the lab samples will probably reveal hydrocarbons – signs of a really old spill. Dusty said the field guys had to take a break from excavating it for a few days to let the odor dissipate. He agrees with Cory that it's soft and coming out in clumps; they're just stuck at rock bottom now at 15'. Then benched 2-3' up. Cory said it may pan out. Dusty wanted lab results to confirm what we were chasing, especially if it's going to require a deeper hole. The top of the floor of Phase 1.5 was yellowish and then they encountered this.

Cory asked if Dusty could measure how far it is from the wellhead. Dusty is on location and said it looks like it's about 40-50' from the wellhead. Cory said it could be an old reserve pit with

degraded hydrocarbons or bentonite clay. Based on the color it could be an old reserve pit or flowback pit. He asked Clair if they did a photoionization detector in the field. She didn't have the equipment at the time, but thought it might look like old drilling mud. Cory asked if there was any trash found within the area. Dusty did not find any. Typically BOP to reserve pit is about 40'. Dusty confirmed when they build pads they do about 40-50' from the wellhead. So we're unsure where this will lead.

Clair said if the results aren't screaming hot, they can get as much of the material out as they can, then rock hammer or pick the rock to see if deeper. Cory said if the rule was followed to a "T", they'd get as much as possible, delineate it, profile it, and ask for a variance to keep it in place. The main concern is being water levels not being affected and benzenes & chlorides. If it's an old reserve pit, it could be 60-125'. Dusty agreed for a vertical well it could be 60-150'. Although it has not backed into our Phase 1. They left a buffer in place there that seems OK.

Cory asked when the soil turned this color during the digging. Dusty said it started with darker soil but about 4-5' they started seeing this, and then it got nasty at the bottom.

Cory opened Google Earth to place the location. It's slightly North and West of the wellhead. He didn't see any old tanks, but Google Earth only goes back to 1985 and this well is from the 50's. (Jenni update – drilled in 1942 as an oil well). Dusty also said there's a piece of concrete they found in the 'wellhead peninsula'. It's a few feet below the surface. They can't pick it out because it seems to be connected to the wellhead. It doesn't look like the typical T base nowadays. They'll just leave it undisturbed.

Cory asked Clair what the old delineation depth was. Clair confirmed 10' was expected; there was high TPH to 10-15' below surface; and dropped below RRALs at 20'.

Weather Delays: None at this time.

Two Week Look Ahead:

Dusty summarized by saying we're chasing these problem areas down to the West and focused on hauling dirt off site. He said it looks like a good dirt bike track for kids with all the different levels out there. We'll see what samples say.

Ryan said something to think about – is there a way to cap the reserve pit & if it can be fully delineated.

Cory asked if the September ACO deadline could be met. Dusty thinks it can if the excavation stays shallow on some of this stuff. They may still be hauling containment dirt off site, but if they stay shallower the cubic yardage will be the same/slightly less than Phase 1. Hopefully we'll be alright.

Clair asked if "fully delineated" meant using the 2019 delineation data, or re-delineating. Some may require more than a backhoe. Ryan and Cory aren't sure yet. We'll look into it further when more data comes back.

Daniel is good. We're all good. Faith will be out next week, but Ryan and Daniel can be reached if necessary. Dusty's drone photos were very much appreciated; he'll try to get them regularly.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to chase down problem areas to determine extent of damage.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Waiting on lab results from Phase 1.5 and NW Phase 2.

Assign Follow Up Tasks For New Business:

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, July 27, 2022

Adjourn: 8:36 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

Ph

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
 - STEKND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #39 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 7/27/2022

Meeting Time: 8:04 am, Wednesday July 27, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, August 3, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Sampling is ongoing. Results were circulated yesterday from samples taken 7/6/22-7/12/22

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance/Abbreviated meeting due to lack of participants (summertime): Dusty said they've excavated a lot of the Phase 2 material out. Tetra Tech's field screenings from yesterday were looking like they were hitting higher chloride levels in some places; they'll probably have to take out another couple of feet to 8-9' deep (West of phase 1.5 about 60 feet from well head.) From the East wall headed West towards the fence line they're seeing high chlorides. They started digging the floor out more after Tetra Tech left. They are 4-5' deep from the mid-section of Phase 2 to the fence line now.

Faith asked if the results will meet OCD levels. The results we had received were circulated yesterday. There are a couple of areas that aren't looking good. The West sidewall corner of the NW 'pit' of Phase 2, they scraped back another 1-2'. The floor looks good here though. They scraped the walls and the chlorides look clean. There was a larger hole within the small pit with high TPH that they dug out. They dug out the area near the decomposed hydrocarbon zone; chlorides looked OK here.

Sadly, they found another decomposed hydrocarbon zone. It looks as bad as the first area. They haven't dug it out completely yet and they're down 15' hitting rock again. Dusty is unsure of the width. They're 60' to the South and it's still hot. It may be 60' x 30'? They'll end up having to dig out more of the 4-5' mid-section area too.

Weather Delays: None at this time.

Two Week Look Ahead:

They'll continue excavating and removing dirt. Discussion on capping the bad areas and requesting a variance. We're unsure of the details for this process, but we should all discuss soon since the ACO deadline is 9/30/22. We'll try to start an email conversation on it later this week – how to cap it.

Dusty is working on another project where they had to wait over a month for a GCL. He learned there are only 3 plants that manufacture these in the US, so it will take time. It may be better to try to dig it out for time's sake? We just found the second bad spot last week and Dusty dug it out until they hit rock and then started trenching. Faith says all parties need to review the current status and then we can all decide on best path forward. We think this may fall into 'unforeseen condition' category.

Dusty is concerned we may end up excavating back East towards Phase 1. He can see plastic liner coming up in the dirt they're excavating in the small pit in the NW corner. The chlorides in the field screenings seem like they're OK in some areas at least. The NW pit chlorides looked OK.

However, the West wall of Phase 2 was 1200 in the field, so they need to take it out further, but we're about 1-2' off the fence line already. Then they're off lease.

We'll have a meeting next week with everyone to try to figure out a game plan for moving this forward with little delay.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to chase down problem areas to determine extent of damage and we're encroaching on fence line to the West.

Critical Path Considerations: Second area of decomposed hydrocarbon discovered. Size is still being determined. We need to know more about capping and requesting a variance, or other options.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Lab results from Phase 1.5 and NW Phase 2 7/6/22-7/12/22 circulated. Need to all discuss/review.

Assign Follow Up Tasks For New Business:

Get Ryan and Cory's input on capping and variance options for the two decomposed hydrocarbon areas.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, August 3, 2022

Adjourn: 8:20 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Sit

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #40 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 8/3/2022

Meeting Time: 8:01 am, Wednesday August 3, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, August 17, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Daniel Gallegos		dgallegos@slo.state.nm.us	NM SLO Water Bureau

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Sampling is ongoing and results are being circulated as data is received from the lab. Communicate with OCD on variance request to cap two decomposed hydrocarbon area.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance (one week since last meeting):

Clair's tech from Tetra Tech has been on site sampling the problem areas identified from the recent lab results. The new field screenings are showing less impacted chloride areas. The lab results will be needed to determine the other constituents. They've moved a lot of dirt around the location. Dusty said they haven't really dealt with the new area of decomposed hydrocarbons. They're focusing on the smaller stuff first, clearing up those areas and avoiding the gray areas.

The West wall of the first hydrocarbon area looks good for chlorides. They dug out about 10' to the West. There's a large rock that slightly raises the elevation in this area, but they can't get through it. The Southwest wall is also testing good for chlorides. They skimmed back 4' level to the area West. Then to 8' in a couple of spots, minus the two hydrocarbon zones. They're going deeper than 4' to get to the deeper threshold acceptance levels; it should help them out with testing thresholds.

The hydrocarbon zones are still an uncertainty. Dusty may need different equipment on site. The GCL's have long lead times. Dusty has a vacation lined up and our ACO is due at the end of September so we don't want to wait to make decisions on how to deal with the hydrocarbon zones.

Faith clarified that the 4' deep area was along the West side of Phase 2. Clair confirmed that those areas were field screened, and chlorides were a bit above the 600 mg/kg chloride content, so they'll grade lower and collect samples again.

Faith said that SLO does not need a variance request for a liner to be installed, but OCD does so we need to get with Cory on this aspect. She asked Ryan for his thoughts on leaving in situ, if he has a liner preference. Ryan said he'd be OK with a standard plastic polyethylene, but Cory would need to agree. This would cap both degraded hydrocarbon areas.

Dusty asked how much they excavate out before the cap goes on? There may only be a small sliver between the two areas, so he may want to take it all out. It's a 30' x 60' area that is 13-15' deep, depending on the rock depth. They saw a portion of the rock around 13-15' in the Southwest corner of Phase 1; it appears to run under the entire site in areas. The 30' by 60' area is an estimation by Dusty from looking at it. He hasn't touched the North wall yet. They also have to avoid the Monitor Well between the two areas of Phase 2 (NW pit and area to West of Phase 1.5). Site elevation seems to have led to fluid migration heading NW over time.

Clair screen shared her KMZ 'in progress' she is updating. BH-118 was the first gray area North of the wellhead. The second one isn't on a KMZ that has been shared yet, but it's around BH-165, which is the NW corner of the Phase 2 middle portion. They just took samples and are waiting on

results from the West sidewall. That data will reveal if the excavation will need to go further West outside of the lease line.

Weather Delays: None at this time.

Two Week Look Ahead:

Faith confirmed our lease is our current footprint, but she can make sure we can go outside lease if necessary. There are a lot of pipelines, including a buried produced water line running alongside the West side of the lease, so that should be a fun issue.

Faith reminded us to wait and see what the results say. The Spill Rule is OCD's so they'll need to weigh in. Off lease spills are still required to be cleaned up. The SLO take on it is different. It's clear there are legacy problems at this site and Dufrane has already done a lot of legacy clean up. There are a lot of lines in the area and not a lot of spill reporting has been done. Historical imagery proves that and Faith doesn't intend to make Permian clean everything up. Some legacy problems may remain. We do need the OCD to weigh in since the ACO deadline is the end of September.

Faith asked Dusty, Clair and Jenni to get with Cory and submit the necessary items to gain a variance to cap the degraded hydrocarbon areas with an HDPE liner since the GCL may take a long time to obtain. Faith and Ryan will also communicate with Cory regarding the plastic liner and variance. If everyone approves a plastic liner to cap, Dusty can excavate out as much as possible around the areas. They'll continue to clean up the other areas with less impact/concern.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to chase down problem areas to determine extent of damage and we're encroaching on fence line to the West.

Critical Path Considerations: Second area of decomposed hydrocarbon discovered. Size is still being determined. We need to know more about capping and requesting a variance, or other options.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Ongoing sampling in field chasing down hot spots. Results coming in and circulated upon receipt.

Assign Follow Up Tasks For New Business:

Get Cory's input on capping and variance options for the two decomposed hydrocarbon areas. Submit variance request with OCD.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, August 17, 2022

Adjourn: 8:27 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

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Phase 1 Remediation Area

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Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg C1*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #41 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 8/17/2022

Meeting Time: 8:02 am, Wednesday August 17, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, August 31, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting: Discuss variance request and updated lab results.

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty was on vacation for a week, but Dufrane continued excavation of the problem areas we'd identified. Those spots were dug out further for more testing. Clair will have a tech out tomorrow and Friday. They continued to haul dirt out.

Faith asked Cory to talk about the variance requests that were submitted to him. Cory had a death in the family and has been out of office, so he has not looked at it until today. Clair summarized that BH-118 was the original problem spot. Then BH-119 and BH-165, but recent lab results show those are OK. At BH-118 they first found gray material, 4480 TPH at 10' and at 13' it was good/non-detect. BH-199 & BH-165: 119 had odor but tested at 10' and it was below; 165 had gray staining and odor and was trenched to 13' and tested good. It was backfilled after they grabbed samples for safety concerns. The variance request was submitted for BH-119 and BH-165, but now possibly BH-164. Cory found the most recent email from Jenni on Monday with these updated results & map. Cory, now reading the results aloud – BH-118, failed at 10', now OK at 13'. BH-119 had odor, dug down to 10', it passed. BH-165, just to left of BH-119, OK now, it passed, but BH-164 is now the new problem child. Clair confirmed that is correct. They're going to resample that area. There's nothing in the field notes, but it exceeded for DRO. BH-164 is just south of BH-165 a few pins on the KMZ. Near SW-55. It's at 8' now; they're going to trench it to find the bottom. Cory says this sounds logical. Clair said they'll also sample the remaining areas and hopefully keep moving forward. She asked Dusty if the site was dry and he confirmed they hadn't received any rain.

Cory and Clair discussed how much area was left and if the variance request could be ignored now. They still need to dig the light blue area on the KMZ along the west side and southern yellow area. She'd like the variance to still be in play in case they run into something else. They still have a day to a day and a half of sampling to get everything to the lab, and need to dig out BH-164 more.

Weather Delays: None at this time.

Two Week Look Ahead:

Faith brought up that we're right up against the west side of our lease footprint and there are surface lines right on the other side with history unknown. Maverick is taking over the oil & gas lease. SLO is reviewing the lease history for environmental incidents and the company history for Maverick. It shouldn't affect our remediation project though. She's uncertain if the operator change has been submitted to OCD.

It's mid-August and we have an end of September deadline, where does Dusty see the next two weeks going? Hopefully the field screenings and lab results look good in the areas we've dug deeper. He is concerned with the fence line and going out past that. Faith asked Cory to explain the OCD spill rule regarding spills off lease and it's requirements. Cory's call dropped.

Dusty said they'll continue to excavate the hot spots, backfill, then move to the smaller spot to the south. He's been holding off on digging that out. Ryan got home from dropping his kid off at school and pulled up the KMZ map. Faith asked if Dusty could backfill the areas with recent clean tests. Ryan said it would be OK and they want to move this along.

Jenni to circulate meeting #40 minutes for Final by end of the week if no revisions received.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to chase down BH-164 problem area to determine extent of damage and we're encroaching on fence line to the West.

Critical Path Considerations: Want to keep variance request on the table until BH-164 can be excavated and tested further.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Ongoing sampling in field chasing down hot spots. Results coming in and circulated upon receipt.

Assign Follow Up Tasks For New Business:

Sampling on site 8/18 and 8/19. Clair will circulate results when received.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, August 31, 2022

Adjourn: 8:25 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - o SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.
- **Plan may be subject to change depending on data from soil and water samples.**
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #42 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 8/31/2022

Meeting Time: 8:03 am, Wednesday August 31, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, September 14, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting: Still waiting on updated lab results.

Assign Follow Up Tasks For Incomplete Old Business: Clair will circulate lab results when received.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty said they continued to haul dirt out and backfill the areas that were able to be filled – south of the wellhead, 4' area to the west, also the small pit in northwest corner of location, the hot spot they had been digging out to the east, and the south wall of the small pit.

They'd left an area in place between the larger phase 2 portion and the small northwest pit. Around the north side of the monitoring well and this small section they'd left in place they found another degraded hydrocarbon zone. At 4' it was nasty and Dusty told them to keep digging it out until they hit rock. (Jenni added this in: This area is north of BH-119 and BH-165 for reference). The three degraded hydrocarbon zones may have bled together somehow underground.

There has been a lot of rain and it's been muddy. Dusty has shifted focus to moving the stockpile out. It may be too muddy and sloppy soon to continue with excavation. He doesn't want the heavy machinery to mess up the clean backfilled areas.

Faith asked Clair for an update on the soil samples. Clair said she's still waiting on the results and the lab is just really backed up. She's hoping they'll come in the next day or two but they're just busy. She confirmed that they sampled BH-164 and the west side trench so it will be a full picture of everything when the data comes in.

Faith asked Dusty how deep the third degraded hydrocarbon zone was. Dusty said they dug to 4' initially, then 6', still nasty, so he told them to just keep digging until they hit rock like the other two zones. It looked the same as BH-118, BH-119, and BH-165. They're about to 14-15' now and look like they're hitting rock again. Faith asked how Cory had felt about the status of the other two degraded hydrocarbon zones. Dusty confirmed that the samples were clean at bottom once they were dug out. So hopefully once this has been dug out, they can resample and see clean samples in this zone too. Ryan said hopefully we won't run into any more of these zones. Dusty commented it's strange to chase them in the field; looks like they could have bled together but then there are clean streaks of separation between them too. No one has heard anything from Cory to update.

Weather Delays: There has been quite a bit of rain and may be more in the forecast. Dusty may have to shut down the site for a couple of days if this is the case.

Two Week Look Ahead:

We're nearing the OCD's deadline with this cleanup. Faith asked that everyone pay attention to correspondence regarding this to help Dusty try to finish in time. We're still making progress but

completing everything by the end of September with a few snags will make it hard. Dusty said they're about \$1.5 million in so far on the remediation and added fines and penalties will cripple us. Insurance budget has been surpassed and Permian is paying out of pocket. Josh and Dusty are going to finish the project no matter what; it's just already a lot of money without additional fines and we are still making progress. Faith said she would be willing to ask the OCD for an extension if necessary and Ryan acknowledged that we were still making progress and there have been smaller spills opened up for longer; the OCD is overwhelmed with spills right now.

Hopefully the last round of samples will come in soon and be clean and Dusty can focus on backfilling. If the third degraded hydrocarbon area is dug out and it samples clean at bottom, then that can be backfilled too.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: New degraded hydrocarbon area being dug out to 14-15' (rock)

Critical Path Considerations: Want to keep variance request on the table.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Ongoing sampling in field chasing down hot spots. Results coming in and circulated upon receipt.

Assign Follow Up Tasks For New Business:

Sampling on site 8/18 and 8/19. Clair will circulate results when received.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, September 14, 2022

Adjourn: 8:19 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - o SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI* - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting #43 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 9/14/2022

Meeting Time: 8:03 am, Wednesday September 14, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, September 28, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting: Lab results received and circulated by Clair.

Assign Follow Up Tasks For Incomplete Old Business: None.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

The first week of September it had been rainy so it was pretty sloppy. Dusty emailed pictures. It was also Labor Day weekend. They were back to work at the end of last week. They excavated more material and continued to haul dirt out. Faith screen shared the most recent KMZ map for Dusty to walk us through.

Dusty referred to the green SW corner – was backfilled to 8-10" finished grade. SW-56 and SW-54 are open due to issues. The yellow area next to the SW corner – started backfilling, but left area around SW-45 open. They have not touched the tank area yet because he didn't want to open up too much. They dug out further on the little purple area, SW-63. Backfilled BH-164 and BH-119. Monitor well = open pocket of 15' buffer around it. Backfilled to E towards BH-191, SW-72. Dug all out to 14' until they hit rock. big pocket of hydrocarbon stuff. They were going to dig to 4', then 2' more, but once they dug it out it was mucky and smelled. So Dusty had them take it all out. SW-58, N of monitor well – dug out and it's ready for retest. They began to backfill the yellow area to the S and blue area in the NW corner and through to the light blue area to the E. He left a buffer at SW-46. SW-50 cleaned up, so they're filling up against that wall. SW-68, next to island around the monitoring well. Continuing to backfill N side of the injection well. The first hydrocarbon zone is clean, so backfilling that.

After looking at it all, it's not as bad as thought. Things are moving in the right direction. Dusty asked what is the plan with SW-46 N side of the pit and the W side of phase 2 area?

Faith said the exceedances are close. Mentioned a typo in the email for SW-58, was 88,970 and should be 8,970. The table has correct amount. Clair is hoping to have her reps out there Friday, but likely Monday for resampling. May need a variance for sidewall and monitoring well. They're not sure how much further out W they can go. SW-46 to the North too. They're about 6-8" from the fence line. They'd have to remove the fence and then there's polylines in that area. Same for the N side and that has the DCP line that we had to have them cut early on.

Cory asking questions looking at KMZ map. Has Clair sampled outside of SW-56 to the West? Clair said she doesn't have those now. Cory asked if they took other samples? To grant the variance to the W, it must be fully delineated. We're below closure standards, but not reclamation closure standards. Cory asked if the area was undisturbed and there's lines out there? Dusty said there's mesquite shrubs, heavily vegetated and some lines. Clair confirmed to horizontally delineate to the W? Cory confirmed, told her to grab samples out that way and take pictures for the variance request. Show the vegetation and that it's growing. The tests are pretty low. SW-69 is high. It's by the monitor well. That should be OK around monitor well for a variance. There are tests all around it. Dusty will take

pictures today. Clair will get horizontal samples to the W and can send pics and request all together. Cory said it's better to submit a variance request for each area, keep them separate. Then it's easier for closure report. Dusty asked if we'd include a variance request for the N area, SW-46. Cory looked at the result, it's 995 and asked if it was also at the fence line. Dusty confirmed and said the DCP line is also cut there from when we first started. Cory said to request a variance to not go further than SW-46 and you're close to the variance standard, show pics of vegetation that is growing.

Faith said she was pretty delighted with the numbers.

Cory asked if 45 will be dug out, to the S? Yes, may wait to dig out SW-54 and 45 when we go further S. Hoping battery containment is good. Clair said down to 4-5' deep. Dusty said they'll wait to submit the variance request to see all of the W wall. Cory said to grab samples to get an idea.

Ryan said he was able to relent on some of the spots. Asked if Dusty was expanding on SW-72? Dusty said it's up for retest. E of SW-72 has actually been excavated out. They're out as far as the purple shaded area below it. Ryan asked BH-191, 193, 192? Dusty said yes, it's excavated to 14-15' to rock and it's ready for retest. That purple area is 14-15'. Cory commented that it went from 5' to 15', must have been pretty nasty. Dusty said it was. They took 4' down and just kept going. The odor was bad. Ryan thanked Dusty for explaining everything going on.

Weather Delays: Site was shut down at the beginning of last week due to rain.

Two Week Look Ahead:

Faith went around asking everyone for their questions. Cory asked if Dusty would be done by September 30th. Dusty said it was going to be real close. It'd be backfilled and to be topped with caliche. Polishing will still need to be done. And dirt hauled off still. He is optimistic but can't tell him for sure. Cory said so the remediation will be done, just not capped? Dusty said yes, it would be close but not picture perfect. Cory asked how much impacted soil was left? Dusty estimated 10,000 yards.

Ryan asked if Dusty had seen anyone out there working on an old tank battery to the SW lately. Dusty said yes, there have been some tank vac trucks and some tanks being removed. There's a small building around the wellhead. Ryan said they didn't know who was doing that.

Clair is good. She will send notification email for sampling soon when it's confirmed. Send Jenni #42 edits if you have any.

Dusty said he worried about issues with getting lab results timely, probably just going to say to pay more to expedite, but stuff that's out of our control generally, what happens if we don't meet the deadline? Cory said we'd be out of compliance with the rule and could be fined up to \$25K per day or \$2500 per day, unsure on that. He doesn't do it often. He doesn't know if they'd take that route per say, but 2 years is a long time to have this open. Dusty asked if it was the longest remediation and Cory wasn't sure. Faith said it was not for the SLO. She asked Cory for lenience because they're seeing good progress. The weekly meetings have been good for the Water Bureau and Commissioners to think we're making progress and in good faith. Cory doesn't disagree. He's saying the extension request was in March and we've all known what to work towards. Concerns have been communicated about getting rid of soil faster. Weather is it's monsoon season, rain should be expected.

Faith told Dusty to dig and haul like the wind.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: Want to keep variance request on the table.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Ongoing sampling in field chasing down hot spots. Results coming in and circulated upon receipt.

Assign Follow Up Tasks For New Business: Another round of resampling

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, September 28, 2022

Adjourn: 8:40 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI* - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting #44 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 9/28/2022

Meeting Time: 8:06 am, Wednesday September 28, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, October 12, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting: Preliminary lab results received and circulated by Clair. She's waiting on BTEX results.

Assign Follow Up Tasks For Incomplete Old Business: Clair will circulate final results when received.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty started by saying that all areas previously excavated that tested clean have been backfilled. He referred to the updated KMZ map Clair sent, and it has new colors now. BH-191, 192, and 196 were dug down to 15' and tests came back good, so that's been backfilled. BH-122 and 127 area was backfilled. All up to the North and East, where the small pit was has been backfilled. Everything except the area around the monitoring well and the areas where additional data is needed has been backfilled.

They started digging out the old tank area in the Southwest corner for testing. They continued to haul dirt out. Faith asked the current size of the stockpile across the road. He said it is about 5000 yds. It won't all be hauled out by September 30th. Last Wednesday they'd backfilled all the areas they could and have focused on hauling of dirt since then while waiting on test results.

Faith asked about the test results. Clair said she received preliminary data for TPH and Chlorides, but not BTEX. Importantly, most samples came back good with the horizontal samples they collected for the North and West variance requests. The South portion, new area had 4 bottom holes and 1 sidewall that exceeded for TPH. Faith clarified that this was the old tank battery area. Clair said they may need to request a variance there. The TPH threshold is 1000 mg/kg for GRO/DRO or 2500 for total TPH. We had 1200 mg/kg GRO/DRO and 1 had 3000 total TPH. BH-201 was higher though. Dusty thinks it looks like a vein running towards BH-207, which is good. Clair said they're at 4-1/2' deep, but they didn't have good data on that.

Faith asked Dusty based on his experience with this site if was able to continue excavation. Dusty asked Clair was our next depth was. Clair said we're at it. Dusty said if we're right at the mark for BH-200, 201, 205 and 206 we can try to go 2' deeper. Clair said BH-201 and 205 will be tough because they're right next to each other. She screen-shared the KMZ. SW-77 also had a slight exceedance, but the samples look OK in the preliminary results, just still need BTEX. Faith said we were set to request a variance there and asked if it was feasible to excavate out another 2'? Dusty said they could. He asked if he needed to go out further East on SW-75, like 1'? Clair said 10'. Dusty confirmed to excavate down to 5-5-1/2' and out 10' to the East. Start at trench at BH-201 and go East. Clair said that should be all that's left.

SW-72 was a bit high for TPH, but it's 8' deep and it's hard to grab at that depth. Faith said it's not safe and we've already done so much it's not rational. Focus on going to 5-6' in the old tank battery area. Dusty said SW-72 is about 15' away to getting too close to SW-8 and 9 in Phase 1. Faith said she wasn't as concerned with this exceedance now that the site with backfill is looking pretty good overall and it will be difficult to get in there. Ask for a variance from Cory. Dusty said he could excavate, but

putting someone down there was the issue. Faith asked for the exceedance and Clair thought it was around 400 TPH, which Faith said wasn't too bad.

Weather Delays: Site was shut down at the beginning of last week due to rain.

Two Week Look Ahead:

Faith asked if Dusty had his method for the South excavation. Dusty confirmed he has the room for it. He has trucks and people. He'll be able to backfill and continue to haul dirt out. The final grade and polishing will still need to be done and breaking down the berm and liner for the stockpile.

Faith asked Clair how long the closure request process takes. Clair said once she gets the final lab results for recent samples, she can submit a variance request, then we can submit a final report. This is a beast of a remediation and it will probably take her 3 weeks to pull everything together to submit the closure report. Faith asked that since Ryan and Cory aren't on the call, can we let them know what we've discussed, what we're submitting and when. So they can keep it on their radar that we're continuing to move forward. Lay out a schedule for them so they know what we're working towards.

Dusty asked if we should leave SW-72 and the monitoring well area open? Clair will try to get that variance request submitted to Cory today. Cory won't approve other variance requests until the final lab results are received. Dusty asked if he'll need to wait a bit and Clair said he should approve it. Discuss strategy for backfilling only certain areas and how long it may take to get the results in so Clair can request a variance for the North and West boundaries. Clair hopes she can submit requests for these areas by end of week. Faith asked if Dusty just focus on excavation this week until we know on variance for backfilling? She asked Clair how long variance requests usually take to be granted. She said usually as fast as they review them; she usually includes them in work plans, but they're mainly double-checking data so it's usually pretty quick. We're trying to avoid holdups in the field.

Dusty can backfill BH-155 and 156 in a day – day and a half, then excavate the area that needs to be dug out more.

Faith asked if we should meet next week and if anyone has any questions? Clair has no questions. Thoughts on meeting next week is based on Cory's responses to her requests. Dusty said unless they're able to get more samples he's not sure if there's enough to discuss by next Wednesday. The end of next week would be better. Jenni said that keeping everyone in the loop through email with the sampling and results and variance requests seems to work for the most part. We can decide to have a meeting if needed.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Critical Path Considerations: Keeping variance request on the table.
Commissioning:
Special Inspections:

Unforeseen Conditions or Problems:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Ongoing sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Dusty to dig out Southwest old tank battery area more and another round of resampling for BH-200, 201, 205 and 206 and SW-75.

Variance Requests submitted to Cory.

Dusty, Clair, and Jenni to visit and lay out when last items will be completed with approximate timelines for Ryan and Cory so they are in the loop without needing to see these minutes.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, October 12, 2022

Adjourn: 8:39 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #45 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 10/12/2022

Meeting Time: 8:02 am, Wednesday October 12, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, October 26, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting: Final lab results w/ BTEX received and circulated by Clair.

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty started by saying they lost about a week due to rain. Prior to that they've just been backfilling clean area and hauling bad dirt off. Yesterday he had the loader backfilling and adding dirt to some of the puddled areas.

Faith asked Cory if he'd had a chance to review the emails Clair had sent yesterday. He's been off and away from him computer since last Friday. Dusty said she'd sent variance requests for the North wall, West wall boundaries, the monitor well area, and another side wall between two areas. She sent one variance request per email.

Cory asked the results of H-2, -3, -4 & -5. Dusty said those were all clean. These results are on the last page of the most recent lab results. Jenni mentioned the email had not included the pictures Dusty had previously sent showing vegetation regrowth outside the fence line. Cory asked if the variance request was for the top 4' and Dusty thought it was. Cory said those numbers look fine.

Moving on to the variance request for SW-72, up by the hot spot. Clair's email has the data in it. It's on the East side of Phase 2, 25' from Phase 1. Dusty found Clair's email to read. Cory asked what was so hard to sample? Dusty said it was not benched and a sheer 8' drop. Cory asked if they could use a backhoe? Dusty said they'd have to bench the sidewall back. The results are 436 so we'd talked about it and thought it would be OK. Cory said he has to defend his response and it wouldn't be vertically delineated. Dusty said the sample was collected at the bottom half of the wall. Cory is wondering about the area between SW-72 and SW-9 (in Phase 1). He's wondering if that is clean, or how much would you be leaving in place. Dusty said we'd need to get with Clair to respond. Cory said that at 8' 436 is fine. He has issues approving a variance in the middle of a site. He said to backfill and get a clean sample later. Other people have to review this too and we have to show that it doesn't go any further. Needs to be vertically delineated. He has to see the numbers so talk to Clair.

Moving to H-1. That is clean. Cory confirmed Dusty had been sent pictures of vegetation along this North side of the fence line also and said that should be OK. Dusty said he'd get with Clair about SW-72. He asked if the monitoring well variance was OK. Cory said he was fine with leaving that in place. It was for SW-71, -60, -70, & -69, sent on September 30th. Dusty read some of the figures from the email. Cory asked him to hold on; he was responding to the variance requests, so we had what we needed to move forward.

Weather Delays: Site was shut down for about a week with uncharacteristic rain for this time of year.

Two Week Look Ahead:

Moving to discuss SW-45 and -75, Dusty said he's going to take those out 4' down and 10'. There's a white rectangle on the KMZ about that far out East. He's going to expand SW-76 out and field screen to see how the results look for how far they need to go. HZ-7 was good. It's been too wet to expand. It's the area right under the old tank battery. The field screenings looked bad so they'll take it out further. Dusty asked their thoughts. Cory said it could be a lighter impacted area, these do weird things, it could have been right where a valve was by the tank, who knows, let the data drive you. If you can get it under the thresholds, you're past the deadline but you're close. Maybe you do a trench between SW-72 and SW-9 and dig a trench to check depth.

Faith asked when Clair could come sample again. Dusty said they needed it to be dry enough to get the machinery in place first for her to get in there and she's been busy. Possibly this week, but it's already Wednesday and they still need to dig. He'll check with her.

Faith asked if everyone had any comments. Jenni is good, meeting minutes are up to date. Dusty is good. Cory is good and he's approved all the emails we sent. Faith let us know of SLO change up and Ryan will be stepping down from remediation. His replacement got pneumonia though. Faith doesn't think she'll be involved with this one since we're getting close to finishing.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Ongoing sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Dusty to dig out Southwest old tank battery area more and another round of resampling for BH-200, 201, 205 and 206 and SW-75 and SW-76. Dusty and Clair to get game plan for sampling SW-72 further.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, October 26, 2022

Adjourn: 8:43 am

- *Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #46 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 10/26/2022

Meeting Time: 8:03 am, Wednesday October 26, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, November 9, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty started by saying the prior two weeks saw a ton of rain that impacted the site and the ability to work. This Monday was the first real day they're all back on site. Last week they were able to work a bit hauling the stockpile out. Monday they were able to start backfilling along the Western edge and Northern edge, and around the monitoring well where variances were approved. They're finishing the backfill that was needed in the deeper areas. They would have been much further along at this for today's call except for the rain. They're hauling and working now though.

They started digging out more at the old tank battery location in the SW corner. They dug out 4-6' on the South side wall and East side wall to add to the stockpile. They're right by the entrance and doghouse and telephone pole, so they're working carefully around that area. Faith asked if they would need to move the doghouse. Dusty said they may have to if they continue further East; it's a bit congested in that area.

Faith asked how far along they were with backfilling? Dusty said 75%, maybe 80%. They'd be a lot further if it hadn't been for the rain. They're filling the deeper areas now that were 15'; it takes some time.

Faith asked about the site conditions currently. Dusty said it was still drying out. It's wet, but not saturated anymore. Monday there was a small shower, but it didn't rain a lot. It's actually tightened the ground up a bit. The machines are running on it OK and compacted it in.

Faith asked about the condition of the lease road and if there were other companies using it? Dusty said it was OK – there's one large puddle they avoid. There's quite a bit of traffic out there, but they're usually not in the right places so they turn around. There's a lot of truck traffic and activity, fracking out there. Faith asked who it was. Dusty said it's over a hill so he's unsure, but once at the highway you can look back and see it in the distance. He hasn't driven that far back out to check out lease signs. Faith said if the road deteriorates too much from wear, we can ask some of the majors to clean it up if they're out there. Dusty said Merchant Livestock is out there with a private property sign and they want you to sign for surface use to cross. Faith said they're collecting tolls out there, but they're not putting it back into the road there. Dusty said he can check out lease signs; he thought Matador bought a bunch a land out there? Faith said yes although there may be issue with the sale, but she has nothing useful to state. Keep her informed if the lease road use becomes an issue to continue. Dusty said it's mostly guys coming out to do meter readings by our site.

Weather Delays: Site was shut down for about a week and a half from rain.

Two Week Look Ahead:

Faith asked Clair what sampling was still needed. Clair wasn't in front of her computer, but they need to resample the bottom holes that exceeded (old tank battery), SW-72 and 9 area, and SW-75 and SW-76. They're hoping to sample early next week. Dusty needs to dig out a bit more on the East side for Clair to sample. He should have it ready for her early next week.

Faith said it sounds like we have a plan that's reasonable for the next two weeks. Ryan said that someone from Merchant Livestock called him and said that Dufrane was putting contaminated soil back into the ground. Dusty said he had no idea, but he'd look into it. He didn't think that was the case. They haven't approached him. Ryan said Centennial and Mewbourne were in the area.

Faith asked if anyone had anything to add. Everyone is good. Meeting #45 minutes have been circulated for 48 hr review. Josh hasn't been on in a while. Dusty said he's up to date on everything and the plan is to just finish this out. Faith said she'd talked to him last about bonding and releases and that it was still her plan to release the bond when closure was approved.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Continued sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Dusty to dig out Southwest old tank battery area more and another round of resampling for BH-200, 201, 205 and 206 and SW-75 and SW-76, and SW-72 area. Hopefully they will resample early next week.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, November 9, 2022

Adjourn: 8:23 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Sit

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
 - STEKND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #47 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 11/23/2022

Meeting Time: 8:03 am, Wednesday November 23, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, December 7, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance: (Four-Week Performance)

Dusty reminded us that they'd struggled the last few weeks with rain delays, but they are finally back on track. They've excavated out more of the smaller old tank battery area - the southern wall SW-76 and SW-79, and the east side wall and floor (SW-75 and SW-83). They're at the southern edge border of the lease. There was about 1 week between excavation and samples coming back with data. Clair circulated soil results to everyone yesterday

They continued to backfill phase 2. SW-72 was delineated for Cory; Clair sent that data to Cory yesterday. All were under thresholds. That's being left open for now.

They backfilled the western side of the small tank batter where it's clean. They've been hauling dirt out, running 13-14 trucks at a time, then something breaks and they may go down to 8-9 trucks at a time. Dusty is using 4 different truck companies to haul off the stockpile of dirt. The liner and last bit of dirt on top will need to be hauled out. It's estimated to be around 3,000 yds left. Backfilling is approximately 93-95% complete, so they've been making good progress there. Trucks can run over areas now and they're using machines to smooth it out. It's filled with red soil and there will be caliche on top to finish it off. Caliche will need to be brought in.

Faith said that sounded good. She wanted to know about SW-81 and SW-82, the small inner wall area tank battery area with exceedances and the plan for that. Clair said those are above SLO and below OCD thresholds for chlorides. They can leave in place or expand. It's between 4-10', so it'd be expanding 10' down. Faith confirmed the exceedances were at 4'? Clair said they were at 4.5' because the top 4' is already gone. Faith is working from Michigan and using a smaller laptop to look at the kmz and table. She asked about results between here and SW-77 to the west/western edge of excavated 4'? Clair said 4.5'. Faith: there were exceedances at SW-77? Clair; Yes, most exceeded for chlorides and that's why they horizontally delineated and requested the variance there. Faith said where we're at with SW-81 and SW-82 is OK.

Clair said based on the recent results, they still need to do more digging and get the SW-72 variance. SW-75 was above chloride thresholds from surface to 10' and will be expanded out further east to 10' deep. SW-76, SW-79 and SW-83 exceeded at 4'. The doghouse is close to this area, but HZ-7 was clean. So top 4' needs to be expanded in these areas.

Faith asked if we had samples for the entire old tank battery area now. Clair said yes. And BH-210 exceeded for TPH. Dusty said the plan is to dig out a 400 square foot area at BH-210 and see what they get. Faith said it looks like there could have been a leak, or a hole in the liner there. It's right under the old battery and it's an old facility that could have had leaks through the years.

Weather Delays: Site was shut down for rain delays but has been back at it.

Two Week Look Ahead:

Dusty will move the doghouse about 15-20' over to excavate the SE corner out further 10' to the east. He needs to keep trucks moving through the area. He's been using the western side of the old battery area that's been backfilled as a path. It should take 2 days to dig out the remaining area with the excavator. He'll make sure there is good traffic flow to haul and dig. Then get with Clair to resample. They'll take Thanksgiving day and Friday off. Hopefully they can sample in a week to a week and a half. And keep moving dirt out.

We all agree it sounds like we're getting close! Hopefully Cory can review and approve the variance request for SW-72 soon.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Continued sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Dusty to dig out Southwest old tank battery area more and another round of resampling for BH-210 and SW-75 and SW-76, SW-78, SW-79, and SW-83 area. Confirm SW-72 variance request granted to backfill.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, December 7, 2022

Adjourn: 8:22 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - o SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

_ . _ .

Site outline

Phase 1 Remediation Area



Test Well #2



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
 STEX ND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- **** Flan may change subject to sample data from spill and water testing ***



Progress Meeting #48 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 12/7/2022

Meeting Time: 8:01 am, Wednesday December 7, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, December 21, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

SW-72 variance was granted via email. Dusty said they took off for Thanksgiving and that night it started raining out there. The rain turned into snow Friday and Saturday. They got 2-4" of snow. The pictures he'd emailed to everyone were from Sunday evening. He actually almost got stuck out there. It melted on Monday but it was sloppy. By Friday morning it was still too nasty for trucks. It rained again Sunday night, but not much. They were able to get out there Monday to haul dirt out.

They haven't been able to start excavation on the small pit yet because it's still pretty nasty. They're mainly hauling dirt. Dusty was on his way to the site and it started raining on him. They can't get a break from the rain. He hadn't checked the forecast yet, but he was hoping they could continue hauling dirt. The snow really set them back. It's hard to report this.

Weather Delays: Site was shut down a week for rain delays but they've been back at it.

Two Week Look Ahead:

Faith agreed the weather slowed things down. She asked how much was left to haul. Dusty said 1500 yards across the road. It will be gone by next week and they'll build it back up when they dig the small pit out. It's 10' deep and 4' deep to the East and South.

Faith asked when they may be resampling. Dusty said hopefully by late next week. Clair said she needs a bit of lead time, but she should be able to schedule next week. Dusty asked to set it up for next Wednesday.

Cory asked what is still left to dig? Dusty responded the small tank battery area had to dig out the 4-6' area down to 10' at that BH-210. Then the further out East to 10' and further South 4' down. Cory said maybe 1000 cubic yards? Dusty said that sounds about right.

Faith chimed in that the weather was not looking good for Dusty. She asked if people were available on December 21 for the next meeting. Everyone is and Cory isn't sure.

Cory asked Clair to only show clean samples when she submits her final report. He said it will be cleaner and easier to review since there are over 200 samples.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

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Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Continued sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Dusty to dig out Southwest old tank battery area more and another round of resampling for BH-210 and SW-75 and SW-76, SW-78, SW-79, and SW-83 area.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, December 21, 2022

Adjourn: 8:14 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ S

Site outline

Phase 1 Remediation Area

Test Well #2



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #49 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 12/21/2022

Meeting Time: 8:03 am, Wednesday December 21, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, January 4, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty said they've dug out the tank battery areas and tested last Wednesday, the 14th. Everything but the tank battery area has been backfilled. They're graded to the point where it sheds water, but they won't cap it until everything is complete. Subgrade is complete. They continued to haul the spoils across the road. 1/3 of back containment is down, 2/3 left to go. They're stockpiling clean dirt across the road for backfill.

Faith asked if they took samples at all 7 places that needed it? Clair said yes. They haven't gotten the samples back but based on what they saw in the field, it looked pretty good. Faith said that once samples back, if they're good, you can backfill the old Southwest area? Dusty confirmed yes, that will be the end of the excavation; it will be capping and removing spoils at that point. He'd say they are 95% done. Hopefully there are no issues with testing. Clair said they did field screening with exsticks for salinity, and they looked OK. Hopefully by this time next week she'll be writing her report. Faith said that was great news!

She asked about the grade for the caliche cap. Dusty said subgrade is ready for the caliche cap. They'll backfill the current areas and then caliche. Faith said caliche in January then? Dusty said yes, it will be a lot. It will probably take a week and a half to haul it in.

Faith asked about the new tank battery location? Dusty said it will be the same as the KMZ he'd put together showing all the pipelines is what he'd propose. Not the KMZ with all the testing samples. It was in the Northeast corner, portion of undisturbed area North of Phase 1. Faith said she was going to need to check if they've done an ARC survey for the entire lease. Dusty thought they had done one for the entire lease. Faith said she'd get with Dusty about it to make sure they have that on file with the Cultural Committee. Dusty said 'undisturbed' meant they didn't excavate it, not virgin land. Faith said there is a new Cultural property rule that went into effect December 1. She thinks they should be fine, but they should discuss.

Weather Delays:

Two Week Look Ahead:

Faith went around the call to see if anything had anything to add. Ryan said it sounds like it's coming to a conclusion, which is good. He was out on vacation for our last meeting. Cory said he had no questions, we're getting there. He'd like the closure report for Christmas Last meeting he'd asked Clair not to include dirty samples in the tables and place an 'x' on lab reports for dirty samples. It takes him longer to review, so just clean samples. Clair said there will be a handful of

samples, SW-78 she thinks, where it was completely removed. They usually highlight those of their tables but she'll note that on the table so it doesn't look like she's removed something entirely. Cory said that was fine, and color coding is fine too. Clair said she'd highlight and list if it's been removed or in situ. Jenni was good. Dusty was good.

Faith thanked everyone for their work. It's been a lot of work. She asked Dusty about the holiday work crew and hours and if January 4th worked for the next meeting for everyone. Dusty said they'll work a half day Friday and Monday off. They'll be back to work the 27th, 28th, 29th, half day on the 30th, back to work Tuesday the 3rd. They'll continue to haul in clean dirt and out bad dirt and wait for the lab results. We'll plan on the next meeting for January 4th. Hopefully we'll get good lab results and no more excavation.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Continued sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Waiting on lab results for Southwest old tank battery area, BH-210 and SW-75 and SW-76, SW-78, SW-79, and SW-83 area.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, January 4, 2022

Adjourn: 8:23 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - o SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.
- **Plan may be subject to change depending on data from soil and water samples.**
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum S'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #50 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 1/4/2023

Meeting Time: 8:06 am, Wednesday January 4, 2023

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, January 18, 2023 or January 25, 2023

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty said the holidays slow played the work a bit. They continued to haul dirt in and out. They've graded to the slope of location to shed water; they just need to cap it with caliche. They haven't done any more excavation – the same area is still open. The size and location make it hard to maneuver around the site.

Clair sent samples and we're still not out of the woods. The South side of the tank battery is close to the tolerance, but we're 2' from the lease line, similar situation to the North and West side areas. We think we'll be able to request a variance for that. We had a good reading at a nearby delineation point (HZ-7). There's no vegetation regrowth though because it's just a caliche area out there. Faith asked if it's in the area where there are three pipeline ROW? Dusty said it was, it's along the road, which is over a pipeline ROW. It's not a real road, it's along part of the ROW and it's pretty rocky. Possibly an old ranch road, pretty rough. The results were only a little above tolerance though. Faith said to request the variance there.

Dusty continued that the East side also had higher results than we'd like. He's been in the field a lot and hasn't been able to be on his laptop much so he's not exactly sure of the results but it was in the top 4'. They're currently at 10' from the Centennial lease line. They may be able to dig out 4-5', maybe vertically delineate closer to the lease line, but it's already close. Faith wondered if Cory would allow a deferral or variance. Jenni jumped in to read email from Clair to reference the sidewalls with exceedances: SW-76 to South, but we have good HZ-7 down there so possibly ask for variance there; SW-75, -79 and -83 along the Eastern wall. Faith asked how much further Dusty thought he could dig and he said he's right up against the lease line to try to get an excavator in there. Faith asked if he could do deeper because she's thinking further ahead for root vegetation and veg regrowth. 8' is better, if we're able to get what you can down to 8' that's reasonable, then ask for a deferral or variance. She uncertain of which one because they have specific meanings to the OCD with regard to when it's dealt with – now or once the well is plugged. She's uncertain how Cory feels about it.

Weather Delays:

Two Week Look Ahead:

Faith asked Dusty to get with Clair and see what they think they'd be able to manage going deeper. Faith asked Jenni to circulate Clair's email with the lab results to everyone. She doesn't want to hold up the project in the field by not getting Dusty responses on how to move forward and we're very close to being complete in the field. She'd like to see Permian get this SWD back up and running. She thinks that the work we've already done will be good for regrowth/re veg efforts in the future.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Continued sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Jenni circulate Clair's lab results for Southwest old tank battery area, BH-210 and SW-75 and SW-76, SW-78, SW-79, and SW-83 area. Need to address slightly higher results for SW-75, -76, -79, and -83 with OCD and field feasibility to remove.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, January 18, 2023 or January 25.

Adjourn: 8:23 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

_ . _ :

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths
 - All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
 STEX ND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****Flan may change subject to sample data from spill and water testing ****



FINAL Progress Meeting #51 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 1/18/2023

Meeting Time: 8:09 am, Wednesday January 18, 2023

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: NONE

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

	,	7 8 37	
Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

None

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

No prior Two-week performance available as Dusty is not on the call today.

Cory asked Claire about lab results chloride levels for SW-75, SW-76, SW-79, and SW-83. There is now an excavation proximity issue with east side lease boundaries, and Cory said we can use borehole data for SW-75 (CL = 1,020 mg/kg. at 0-4') and SW-83 (CL=1,070 mg/kg at 0-4'). SLO is in agreement.

Weather Delays:

None noted

Two Week Look Ahead:

Claire will put together a closure report with updated site maps, variance approval emails, bore hole data. Cory and Claire talked about submitting clean sample data and 'x-ing out' the few dirty results so data could still be seen. Cory said the closure request must be sent in separately for each open RP/incident. A deferral should be requested for reclamation and reseeding work until final site closure effort. Cory would like to see the report by the end of February 2023. Claire says it may be ready a bit sooner.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

Faith would like to receive regular weekly short email updates from Jenni and Dusty regarding ongoing site work.

Assign Follow Up Tasks For New Business:

Claire will submit a closure request/ report for all open incidents by the end of February to the OCD and SLO.

Verify Date and Time of Next Meeting:

None. This meeting will be considered the final bi-weekly progress meeting for this group. Thank you all for the last 2 years and all the effort. Thank you for committing to come to all the meetings, each of you.

Adjourn: 8:31 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
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 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

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Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

- - -

Phase 1 Remediation Area

*

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***





Appendix D

Laboratory analysis

Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-5572-1

Laboratory Sample Delivery Group: New Mexico

Client Project/Site: PWS-Kaiser

Revision: 1

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

KRAMER

Authorized for release by: 9/13/2021 9:28:06 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

lotal Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 9/1/2023 3:11:42 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

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Client: Tetra Tech, Inc.

Project/Site: PWS-Kaiser

Laboratory Job ID: 880-5572-1

SDG: New Mexico

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Sample Summary	16
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Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser

SDG: New Mexico

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Surrogate recovery exceeds control limits, high biased. S1+ Indicates the analyte was analyzed for but not detected. U

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier **Qualifier Description**

Sample was prepped or analyzed beyond the specified holding time

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**

DΙ Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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 **Quality Control** QC

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) TFO Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Xenco, Midland

Case Narrative

Client: Tetra Tech, Inc.

Project/Site: PWS-Kaiser

Job ID: 880-5572-1

SDG: New Mexico

Job ID: 880-5572-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-5572-1

Receipt

The sample was received on 8/30/2021 2:38 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 5.6°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

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.

Job ID: 880-5572-2

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-5572-2

Comments

No additional comments.

Receipt

The sample was received on 8/30/2021 2:38 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 was 5.6° C.

General Chemistry

Method SM 2540C: The following sample was run outside of holding time at client's request: MW-1 (880-5572-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Client: Tetra Tech, Inc.

Project/Site: PWS-Kaiser

Job ID: 880-5572-1 SDG: New Mexico

Client Sample ID: MW-1 Date Collected: 08/27/21 13:35

Lab Sample ID: 880-5572-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L		<u> </u>	09/01/21 22:06	1
Toluene	<0.00200	U	0.00200		mg/L			09/01/21 22:06	1
Ethylbenzene	< 0.00200	U	0.00200		mg/L			09/01/21 22:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			09/01/21 22:06	1
o-Xylene	< 0.00200	U	0.00200		mg/L			09/01/21 22:06	1
Xylenes, Total	< 0.00400	U	0.00400		mg/L			09/01/21 22:06	1
Total BTEX	<0.00400	U	0.00400		mg/L			09/01/21 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130					09/01/21 22:06	1
1,4-Difluorobenzene (Surr)	106		70 - 130					09/01/21 22:06	1
Method: 8015B NM - Diesel Ra Analyte	Result	Qualifier	(GC)	MDL		<u>D</u>	Prepared 09/03/21 16:21	Analyzed	
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10	Result <4.66	Qualifier U	(GC) RL 4.66	MDL	mg/L	<u>D</u>	09/03/21 16:21	09/04/21 23:09	1
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	Result	Qualifier U	(GC)	MDL		<u>D</u>			1
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <4.66	Qualifier U	(GC) RL 4.66	MDL	mg/L	<u>D</u>	09/03/21 16:21	09/04/21 23:09	1
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <4.66 <4.66	Qualifier U	(GC) RL 4.66	MDL	mg/L	<u>D</u>	09/03/21 16:21 09/03/21 16:21 09/03/21 16:21	09/04/21 23:09 09/04/21 23:09	1 1 1
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <4.66 <4.66 <4.66	Qualifier U U U U	(GC) RL 4.66 4.66 4.66	MDL	mg/L mg/L mg/L	<u>D</u>	09/03/21 16:21 09/03/21 16:21 09/03/21 16:21	09/04/21 23:09 09/04/21 23:09 09/04/21 23:09	1 1 1
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.66 <4.	Qualifier U U U U	(GC) RL 4.66 4.66 4.66 4.66	MDL	mg/L mg/L mg/L	<u>D</u>	09/03/21 16:21 09/03/21 16:21 09/03/21 16:21 09/03/21 16:21	09/04/21 23:09 09/04/21 23:09 09/04/21 23:09 09/04/21 23:09	1 1 1 Dil Fac
Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <4.66 <4.66 <4.66 <4.66 <8 <8 <4.66 <8 <8 <8 <8 <8 <8 <8	Qualifier U U U U	(GC) RL 4.66 4.66 4.66 4.66 Limits	MDL	mg/L mg/L mg/L	<u>D</u>	09/03/21 16:21 09/03/21 16:21 09/03/21 16:21 09/03/21 16:21 Prepared	09/04/21 23:09 09/04/21 23:09 09/04/21 23:09 09/04/21 23:09 Analyzed	Dil Face 1 1 1 1 1 Dil Face 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <4.66 <4.66 <4.66 <4.66 <4.66 <1.66 <1.66 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.56 <1.	Qualifier U U U Qualifier	(GC) RL 4.66 4.66 4.66 Limits 70-130	MDL	mg/L mg/L mg/L	<u>D</u>	09/03/21 16:21 09/03/21 16:21 09/03/21 16:21 09/03/21 16:21 Prepared 09/03/21 16:21	09/04/21 23:09 09/04/21 23:09 09/04/21 23:09 09/04/21 23:09 <i>Analyzed</i> 09/04/21 23:09	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result <4.66 <4.66 <4.66 <4.66 <4.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.66 <1.	Qualifier U U U Qualifier	(GC) RL 4.66 4.66 4.66 Limits 70-130	MDL	mg/L mg/L mg/L mg/L	<u>D</u>	09/03/21 16:21 09/03/21 16:21 09/03/21 16:21 09/03/21 16:21 Prepared 09/03/21 16:21	09/04/21 23:09 09/04/21 23:09 09/04/21 23:09 09/04/21 23:09 <i>Analyzed</i> 09/04/21 23:09	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

500

9590 H

mg/L

09/10/21 15:13

Eurofins Xenco, Midland

Total Dissolved Solids

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

		BFB1	DFBZ1	rogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-5572-1	MW-1	- (70-130) 131 S1+	106	
880-5572-1 MS	MW-1	113	121	
880-5572-1 MSD	MW-1	119	121	
LCS 880-7266/61				
	Lab Control Sample	108	115	
LCSD 880-7266/62	Lab Control Sample Dup	123	129	
MB 880-7266/66	Method Blank	75	104	
MB 880-7274/5-A	Method Blank	75	102	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water Prep Type: Total/NA

			Percen	t Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-5572-1	MW-1	109	115	
890-1210-J-1-A MS	Matrix Spike	99	102	
890-1210-J-1-B MSD	Matrix Spike Duplicate	110	111	
LCS 880-7525/2-A	Lab Control Sample	127	126	
LCSD 880-7525/3-A	Lab Control Sample Dup	112	109	
MB 880-7525/1-A	Method Blank	115	123	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Midland

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7266/66

Matrix: Water

Analysis Batch: 7266

Client Samp	le ID:	Meth	od Blank
	Prep	Type:	Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			09/01/21 21:40	1
Toluene	<0.00200	U	0.00200		mg/L			09/01/21 21:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			09/01/21 21:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			09/01/21 21:40	1
o-Xylene	<0.00200	U	0.00200		mg/L			09/01/21 21:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			09/01/21 21:40	1
Total BTEX	<0.00400	U	0.00400		mg/L			09/01/21 21:40	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 75 70 - 130 09/01/21 21:40 104 70 - 130 09/01/21 21:40 1,4-Difluorobenzene (Surr)

Lab Sample ID: LCS 880-7266/61 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 7266

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Benzene 0.100 0.09753 mg/L 98 70 - 130 Toluene 0.100 0.09995 100 mg/L 70 - 130 Ethylbenzene 0.100 0.1071 mg/L 107 70 - 130 m-Xylene & p-Xylene 0.200 0.2108 mg/L 105 70 - 130 70 - 130 0.100 0.1044 104 o-Xylene mg/L

LCS LCS Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 108 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 115

Lab Sample ID: LCSD 880-7266/62 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 7266

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1139		mg/L		114	70 - 130	15	20
Toluene	0.100	0.1090		mg/L		109	70 - 130	9	20
Ethylbenzene	0.100	0.1173		mg/L		117	70 - 130	9	20
m-Xylene & p-Xylene	0.200	0.2317		mg/L		116	70 - 130	9	20
o-Xylene	0.100	0.1146		mg/L		115	70 - 130	9	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	129		70 - 130

Lab Sample ID: 880-5572-1 MS

Matrix: Water

Analysis Batch: 7266

Allalysis Datcil. 1200										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.1110		mg/L		111	70 - 130	

Eurofins Xenco, Midland

Client Sample ID: MW-1

Prep Type: Total/NA

9/13/2021 (Rev. 1)

Client: Tetra Tech, Inc. Project/Site: PWS-Kaiser

Job ID: 880-5572-1 SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5572-1 MS

Matrix: Water

Analysis Batch: 7266

Client	Samp	ole ID:	MW-1
Pre	vT as	pe: To	tal/NA

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00200	U	0.100	0.1117		mg/L		111	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.1142		mg/L		114	70 - 130	
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2283		mg/L		114	70 - 130	
o-Xylene	<0.00200	U	0.100	0.1115		mg/L		112	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Client Sample ID: MW-1

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 7266

Lab Sample ID: 880-5572-1 MSD

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1118		mg/L		112	70 - 130	1	25
Toluene	<0.00200	U	0.100	0.1097		mg/L		109	70 - 130	2	25
Ethylbenzene	<0.00200	U	0.100	0.1121		mg/L		112	70 - 130	2	25
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2246		mg/L		112	70 - 130	2	25
o-Xylene	<0.00200	U	0.100	0.1104		mg/L		110	70 - 130	1	25

MSD MSD

Surrogate	%Recovery Qua	alifier Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1,4-Difluorobenzene (Surr)	121	70 - 130

Lab Sample ID: MB 880-7274/5-A

Matrix: Water

Analysis Batch: 7266

Client	Sample	D:	Meth	od E	3lank
	_		-	- Table 1	- 1/N I A

Prep Type: Total/NA Prep Batch: 7274

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L		08/31/21 08:38	09/01/21 00:42	1
Toluene	<0.00200	U	0.00200		mg/L		08/31/21 08:38	09/01/21 00:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/L		08/31/21 08:38	09/01/21 00:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L		08/31/21 08:38	09/01/21 00:42	1
o-Xylene	<0.00200	U	0.00200		mg/L		08/31/21 08:38	09/01/21 00:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/L		08/31/21 08:38	09/01/21 00:42	1
Total BTEX	<0.00400	U	0.00400		ma/L		08/31/21 08:38	09/01/21 00:42	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	70 - 130	08/31/21 08:38	09/01/21 00:42	1
1,4-Difluorobenzene (Surr)	102	70 - 130	08/31/21 08:38	09/01/21 00:42	1

Eurofins Xenco, Midland

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-7525/1-A

Matrix: Water

Analysis Batch: 7537

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

75 - 125

Prep Type: Total/NA

111

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7525

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<4.69	U	4.69		mg/L		09/03/21 16:21	09/04/21 21:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<4.69	U	4.69		mg/L		09/03/21 16:21	09/04/21 21:03	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<4.69	U	4.69		mg/L		09/03/21 16:21	09/04/21 21:03	1
Total TPH	<4.69	U	4.69		mg/L		09/03/21 16:21	09/04/21 21:03	1
					-				

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	09/03/21 16:21	09/04/21 21:03	1
o-Terphenyl	123		70 - 130	09/03/21 16:21	09/04/21 21:03	1

Lab Sample ID: LCS 880-7525/2-A

Diesel Range Organics (Over

Matrix: Water						•	Prep Type: Total/NA
Analysis Batch: 7537							Prep Batch: 7525
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	93.8	93.19		mg/L		99	75 - 125
(GRO)-C6-C10							

103.9

mg/L

93.8

C10-C28)

LCS LCS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 127 70 - 130 o-Terphenyl 126 70 - 130

Lab Sample ID: LCSD 880-7525/3-A

Matrix: Water

Analysis Batch: 7537							Prep	Batch:	7525
-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	93.8	92.23		mg/L		98	75 - 125	1	20
Diesel Range Organics (Over	93.8	104.2		mg/L		111	75 - 125	0	20

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Surrogate	%Recovery Qua	alifier Limits
1-Chlorooctane	112	70 - 130
o-Terphenyl	109	70 - 130

ICED ICED

Lab Sample ID: 890-1210-J-1-A MS

M

Matrix: Water Analysis Batch: 7537										pe: Total/NA Batch: 7525
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<4.53	U	91.5	76.12		mg/L		83	75 - 125	
Diesel Range Organics (Over C10-C28)	<4.53	U	91.5	89.74		mg/L		98	75 - 125	

Eurofins Xenco, Midland

Client Sample ID: Matrix Spike

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Matrix Spike Lab Sample ID: 890-1210-J-1-A MS Prep Type: Total/NA

Matrix: Water Analysis Batch: 7537

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 99 70 - 130 o-Terphenyl 102 70 - 130

Lab Sample ID: 890-1210-J-1-B MSD

Matrix: Water

Analysis Batch: 7537

Client Sample ID: Matrix Spike Duplicate **Prep Type: Total/NA**

Prep Batch: 7525

Prep Batch: 7525

RPD MSD MSD Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <4.53 U 91.5 85.40 mg/L 93 75 - 125 11 20 (GRO)-C6-C10 Diesel Range Organics (Over <4.53 U 91.5 99.28 mg/L 109 75 - 125 10 20 C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	111		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7318/3

Matrix: Water

Analysis Batch: 7318

MB MB

MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Chloride 0.500 <0.500 U mg/L 08/31/21 15:24

Lab Sample ID: LCS 880-7318/4

Matrix: Water

Analysis Batch: 7318

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	25.0	26.14		mg/L		105	90 - 110	

Lab Sample ID: LCSD 880-7318/5

Matrix: Water

Analysis Batch: 7318

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	25.0	25.60		mg/L		102	90 - 110	2	20

Lab Sample ID: 880-5594-A-1 MS

Released to Imaging: 9/1/2023 3:11:42 PM

Matrix: Water

Analysis Ratch: 7318

Alialysis Datell. 1010										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	9.96		25.0	34.47		mg/L		98	90 - 110	

Eurofins Xenco, Midland

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client: Tetra Tech, Inc. Project/Site: PWS-Kaiser

Job ID: 880-5572-1 SDG: New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-5594-A-1 MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Water** Prep Type: Total/NA

Analysis Batch: 7318

RPD Sample Sample Spike MSD MSD %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 9.96 25.0 34.95 mg/L 100 90 - 110 20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-7774/1 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 7774

MB MB Result Qualifier RL **MDL** Unit **Prepared** Analyzed Dil Fac 25.0 Total Dissolved Solids <25.0 U 09/10/21 15:13 mg/L

Lab Sample ID: LCS 880-7774/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 7774

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec **Total Dissolved Solids** 1000 990.0 mg/L 99 80 - 120

Lab Sample ID: LCSD 880-7774/3 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 7774

LCSD LCSD Spike %Rec. **RPD** Added Analyte Result Qualifier Unit %Rec Limits RPD Limit Total Dissolved Solids 1000 980.0 98 80 - 120 mg/L

Lab Sample ID: 880-5572-1 DU Client Sample ID: MW-1 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 7774

DU DU **RPD** Sample Sample Analyte Result Qualifier Result Qualifier Unit **RPD** Limit Total Dissolved Solids 9590 H 9590 mg/L 10

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

GC VOA

Analysis Batch: 7266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5572-1	MW-1	Total/NA	Water	8021B	
MB 880-7266/66	Method Blank	Total/NA	Water	8021B	
MB 880-7274/5-A	Method Blank	Total/NA	Water	8021B	7274
LCS 880-7266/61	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-7266/62	Lab Control Sample Dup	Total/NA	Water	8021B	
880-5572-1 MS	MW-1	Total/NA	Water	8021B	
880-5572-1 MSD	MW-1	Total/NA	Water	8021B	

Prep Batch: 7274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7274/5-A	Method Blank	Total/NA	Water	5035	

GC Semi VOA

Prep Batch: 7525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Ba	atch
880-5572-1	MW-1	Total/NA	Water	8015NM Aq Prep	
MB 880-7525/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 880-7525/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 880-7525/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
890-1210-J-1-A MS	Matrix Spike	Total/NA	Water	8015NM Aq Prep	
890-1210-J-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 7537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5572-1	MW-1	Total/NA	Water	8015B NM	7525
MB 880-7525/1-A	Method Blank	Total/NA	Water	8015B NM	7525
LCS 880-7525/2-A	Lab Control Sample	Total/NA	Water	8015B NM	7525
LCSD 880-7525/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	7525
890-1210-J-1-A MS	Matrix Spike	Total/NA	Water	8015B NM	7525
890-1210-J-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B NM	7525

HPLC/IC

Analysis Batch: 7318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5572-1	MW-1	Total/NA	Water	300.0	
MB 880-7318/3	Method Blank	Total/NA	Water	300.0	
LCS 880-7318/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-7318/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-5594-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-5594-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 7774

Lab Sample ID 880-5572-1	Client Sample ID MW-1	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
MB 880-7774/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-7774/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-7774/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-5572-1 DU	MW-1	Total/NA	Water	SM 2540C	

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.

Job ID: 880-5572-1

Project/Site: PWS-Kaiser

SDG: New Mexico

Client Sample ID: MW-1

Lab Sample ID: 880-5572-1

Matrix: Water

Date Collected: 08/27/21 13:35 Date Received: 08/30/21 14:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	7266	09/01/21 22:06	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			32.2 mL	3 mL	7525	09/03/21 16:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7537	09/04/21 23:09	AJ	XEN MID
Total/NA	Analysis	300.0		50			7318	08/31/21 16:14	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	7774	09/10/21 15:13	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Project/Site: PWS-Kaiser

Job ID: 880-5572-1

SDG: New Mexico

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Prog	ıram 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮 🤄 🤄 🤄 🤄 💮 🤄 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮	Identification Number	Expiration Date
Texas	NEL	AP	T104704400-20-21	06-30-22
The following analyte	s are included in this report,	but the laboratory is r	not certified by the governing authority.	This list may include analytes for wh
the agency does not	•	,,	g aansy.	This list may include analytes for the
the agency does not of Analysis Method	•	Matrix	Analyte	The letting include analytes for wi
0 ,	offer certification.	· ·	, , ,	

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Method Summary

Client: Tetra Tech, Inc.
Project/Site: PWS-Kaiser

Job ID: 880-5572-1 SDG: New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN MID
5030B	Purge and Trap	SW846	XEN MID
8015NM Ag Prep	Microextraction	SW846	XEN MID

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: PWS-Kaiser Job ID: 880-5572-1

SDG: New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5572-1	MW-1	Water	08/27/21	08/30/21
			13:35	14:38

Project Number

2126-

Boutine

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ANALYSIS REQUEST

Turn Around

ANS-Kulser

Sou

MAXICO MB-02230

SMIFE

TAT starts the day received by the lab, if received by 4:30pm

Project Name:

City State ZIP

432-270-85-8

79701

City State ZIP

Email

Sonzales@ Ftratech-com

Deliverables

ED00 🗌

ADaPT 🗌

Other:

Level IV

Cool Cool HCL. HC H2SO 4 H2

MeOH Me HNO 3 HN

NaOH Na

None NO

DI Water: H₂O

Preservative Codes

Reporting Level II 🗌 Level III 📗 PST/UST 📗 TRRP 📗

State of Project:

Program

UST/PST ☐ PRP☐ Brownfields ☐

RRC 🗌

Superfund 🗌

Work Order Comments

www.xenco.com

Project Manager ompany Name

Tetra 1915

CONZAles

Bill to (if different)

ompany Name

Sampler's Name Project Location

13 14

Environment Testing Houston, TX (281) 240-4200, Dallas, TX (214 Chain of Custod

Midland, TX (432) 704-5440, San Antonio, TX (2 EL Paso TX (915) 585-3443, Lubbock, TX (806 Hobbs NM (575) 392-7550 Carlsbad, NM (57

Xenco

5)	5) 7	10	9	~
	880-5572 Chain of Custody			
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880-5572 Chain of Custody			
	0:	ひひナン)

Sample Custody Seals. Yes No MA Temperature Reading 5.0 Corrected Temperature Sampled Combiners Sample Identification Matrix Sampled Sampled Sampled Comp Cont Cont Cont Comp Cont Cont Cont Cont Cont Cont Cont Cont	Yes No (N/A) Yes No (N/A) Yes No (N/A) Yes No (N/A) Watrix Matrix Mat	Correction Factor Temperature Reading Corrected Temperature Date Sampled 8-27-2/ /335 8RCRA 13PP 8RCRA 13PP 10/Zed TCLP/SP	ding 5.1 Frature 5.0 Time Depth Comp Comp Comp Comp Comp Comp Comp Comp	# of PAH (#O) Cont PAH (#O) Cont PAH (#O) RTEX Chlorid Al Sb As Ba Be B Cd RA Sb As Ba Be Cd C RA Sb As Ba Be Cd C Date/Time Date/Time		N. N	Na ₂ S ₂ O ₃ NaSO ₃ Zn Acetate+NaOH Zn NaOH+Ascorbic Acid SAPC Sample Comments For Questia us Claw Gonzale 432~266~863 4 TI Sn U V Zn 7470 / 7471 Date/Time
Cooler Custody Seals. Ye	•						
Î,	ヽ」フ	Thermometer ID	87T			NaHSO 4 NABIS	NABIS
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	1	Temperature Reading	ית ה			Na 20 20 2 0	, Najo 3
4	L			۲			ite+NaOH Zn
Total Containers.		Corrected Temperature	9.5	EX		NaOH+A	scorbic Acid SAPC
Sample Identification	Matrix	Date	Grab/	PA BT		S	sple Comment
***************************************		Sampled	Comp	7		Jar	mple Comments
MW-1	R		Ø.	61111		Tay	suestions
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	00.8 / 6020:	8RCRA 13P	PM Texas 11 A	Sb As Ba Be B Cd		ONIK SA AC SIONIS SETI SE I	W 75
Circle Method(s) and Meta	al(s) to be ana		SPLP 6010 8RCF	RA Sb As Ba Be Cd		U Hg 1631/2451/7470/	7471
Notice: Signature of this document and relinf service. Eurofins Xenco will be liable only	linquishment of samp	les constitutes a valid purchase of bles and shall not assume any resp	der from client company to sonsibility for any losses or	o Eurofins Xenco, its affiliates and expenses incurred by the client if	d subcontractors. It assigns standard terms and conditions are due to circumstances beyond the control of the c	tions trol	
or coronits wence. A minimum charge of S	S85.00 will be applied	to each project and a charge of \$	5 for each sample submitt	ed to Eurofins Xenco, but not ana	alyzed. These terms will be enforced unless previously n	negotiated.	
Relinquished by: (Signatur	re)	Received by: (Signatu	re)	Date/Time	Relinquished by (Signature)	Received by: (Signature)	Date/Time
Sill & Show	IN	9///		8-30-2021	- 1		
3				1438	4		
					6	***************************************	

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-5572-1

SDG Number: New Mexico

Login Number: 5572 List Source: Eurofins Xenco, Midland

List Number: 1 Creator: Teel, Brianna

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.	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	True	

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1501-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

JURAMER

Authorized for release by: 11/8/2021 11:57:43 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 9/1/2023 3:11:42 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-1501-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

2

Qualifiers

GC	VOA
Qua	lifier

F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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.

Qualifier Description

GC Semi VOA

Qualifier Description

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.

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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)

114

DL, RA, RE, IN DLC 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

Eurofins Xenco, Carlsbad

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-1501-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1501-1

Receipt

The samples were received on 10/29/2021 12:45 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 2.2°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: DS-1 (2) (890-1501-1) and DS-2 (3) (890-1501-2). 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.

GC Semi VOA

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11233 and analytical batch 880-11381 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Matrix: Solid

Lab Sample ID: 890-1501-1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: DS-1 (2)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 10:32	11/01/21 22:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 10:32	11/01/21 22:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 10:32	11/01/21 22:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 10:32	11/01/21 22:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 10:32	11/01/21 22:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 10:32	11/01/21 22:08	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	75		70 - 130				11/01/21 10:32	11/01/21 22:08	
1,4-Difluorobenzene (Surr)	200	S1+	70 - 130				11/01/21 10:32	11/01/21 22:08	1
Method: 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			11/03/21 12:38	
Method: 8015 NM - Diesel Range									
Analyte	Result	Qualifier		MDL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed 11/03/21 08:46	
		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/03/21 08:46	
Analyte	Result <49.9	Qualifier U		MDL		<u>D</u>			
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.9 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg	<u>D</u>	Prepared	11/03/21 08:46 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			11/03/21 08:46	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	11/03/21 08:46 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/01/21 14:48	11/03/21 08:46 Analyzed 11/02/21 22:52	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/01/21 14:48 11/01/21 14:48	11/03/21 08:46 Analyzed 11/02/21 22:52 11/02/21 22:52	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/01/21 14:48 11/01/21 14:48 11/01/21 14:48	Analyzed 11/02/21 22:52 11/02/21 22:52	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/01/21 14:48 11/01/21 14:48 11/01/21 14:48 Prepared	Analyzed 11/02/21 22:52 11/02/21 22:52 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/01/21 14:48 11/01/21 14:48 11/01/21 14:48 Prepared 11/01/21 14:48	Analyzed 11/02/21 22:52 11/02/21 22:52 11/02/21 22:52 Analyzed 11/02/21 22:52	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 11/01/21 14:48 11/01/21 14:48 11/01/21 14:48 Prepared 11/01/21 14:48	Analyzed 11/02/21 22:52 11/02/21 22:52 11/02/21 22:52 Analyzed 11/02/21 22:52	Dil Fac

Client Sample ID: DS-2 (3)
Date Collected: 10/25/21 00:00

Date Received: 10/29/21 12:45

Released to Imaging: 9/1/2023 3:11:42 PM

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 22:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 22:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 22:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 10:32	11/01/21 22:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 22:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 10:32	11/01/21 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				11/01/21 10:32	11/01/21 22:36	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1501-2

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10

12

13

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1501-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: DS-2 (3) Lab Sample ID: 890-1501-2

Date Collected: 10/25/21 00:00 Matrix: Solid Date Received: 10/29/21 12:45

Sample Depth: 3

Surrogate	%Recovery Q	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	172 S	S1+	70 - 130	11/01/21 10:32	11/01/21 22:36	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/03/21 12:38	1
Г									

Method: 8015 NM - Diesel Range O	rganics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1290		250		mg/Kg			11/03/21 08:46	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		11/01/21 14:48	11/02/21 23:14	5		
Diesel Range Organics (Over C10-C28)	1290		250		mg/Kg		11/01/21 14:48	11/02/21 23:14	5		
Oll Range Organics (Over C28-C36)	<250	U	250		mg/Kg		11/01/21 14:48	11/02/21 23:14	5		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		

Surrogate	76Recovery Qualifier	LIIIIIIS	riepa	ii eu	Allalyzeu	DII Fac
1-Chlorooctane	89	70 - 130	11/01/21	14:48	11/02/21 23:14	5
o-Terphenyl	94	70 - 130	11/01/21	14:48	11/02/21 23:14	5
Method: 300 0 - Anions Jon Chrom	natography - Soluble					

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	7010	100	mg/Kg			11/07/21 02:39	20			

Client Sample ID: DS-3 (2) Lab Sample ID: 890-1501-3 Date Collected: 10/25/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45 Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				11/01/21 10:32	11/01/21 23:03	1
1,4-Difluorobenzene (Surr)	75		70 - 130				11/01/21 10:32	11/01/21 23:03	1
Method: Total BTEX - Total B1	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/03/21 12:38	1
- Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
		Qualifier	RL		Unit			Analyzed	Dil Fac

Eurofins Xenco, Carlsbad

11/03/21 08:46

250

mg/Kg

1980

Total TPH

Matrix: Solid

Lab Sample ID: 890-1501-3

11/07/21 02:47

Client Sample Results

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1501-1

SDG: Lea County NM

Client Sample ID: DS-3 (2)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Released to Imaging: 9/1/2023 3:11:42 PM

Sample Depth: 2

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		11/01/21 14:48	11/02/21 23:37	5
Diesel Range Organics (Over C10-C28)	1980		250		mg/Kg		11/01/21 14:48	11/02/21 23:37	5
OII Range Organics (Over C28-C36)	<250	U	250		mg/Kg		11/01/21 14:48	11/02/21 23:37	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				11/01/21 14:48	11/02/21 23:37	5
o-Terphenyl	109		70 - 130				11/01/21 14:48	11/02/21 23:37	5
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

49.5

7820

mg/Kg

Eurofins Xenco, Carlsbad

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Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-7749-A-1-C MS	Matrix Spike	86	71	
880-7749-A-1-E MSD	Matrix Spike Duplicate	87	115	
890-1501-1	DS-1 (2)	75	200 S1+	
890-1501-2	DS-2 (3)	86	172 S1+	
890-1501-3	DS-3 (2)	103	75	
LCS 880-11059/1-A	Lab Control Sample	91	100	
LCSD 880-11059/2-A	Lab Control Sample Dup	85	105	
MB 880-11059/5-A	Method Blank	63 S1-	133 S1+	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1495-A-1-H MS	Matrix Spike	99	99
890-1495-A-1-I MSD	Matrix Spike Duplicate	102	115
890-1501-1	DS-1 (2)	104	109
890-1501-2	DS-2 (3)	89	94
890-1501-3	DS-3 (2)	101	109
LCS 880-11158/2-A	Lab Control Sample	101	104
LCSD 880-11158/3-A	Lab Control Sample Dup	90	95
MB 880-11158/1-A	Method Blank	103	114

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1501-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11059/5-A

Matrix: Solid Analysis Batch: 11027 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11059

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 13:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 10:32	11/01/21 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 13:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 10:32	11/01/21 13:19	1

мв мв

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	11/01/21 10:3	2 11/01/21 13:19	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130	11/01/21 10:3	2 11/01/21 13:19	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-11059/1-A

Matrix: Solid

Analysis Batch: 11027

Prep Type: Total/NA

Prep Batch: 11059

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09493	-	mg/Kg		95	70 - 130	
Toluene	0.100	0.09238		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.08996		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1834		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.09109		mg/Kg		91	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-11059/2-A

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11059

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08648		mg/Kg		86	70 - 130	9	35
Toluene	0.100	0.08374		mg/Kg		84	70 - 130	10	35
Ethylbenzene	0.100	0.07988		mg/Kg		80	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1623		mg/Kg		81	70 - 130	12	35
o-Xylene	0.100	0.08108		mg/Kg		81	70 - 130	12	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1.4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-7749-A-1-C MS

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 11059

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F2 F1	0.101	0.03475	F1	mg/Kg		34	70 - 130	
Toluene	<0.00202	U F2 F1	0.101	0.006187	F1	mg/Kg		6	70 - 130	

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QC Sample Results

Job ID: 890-1501-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-7749-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 11027

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U F2 F1	0.101	0.06604	F1	mg/Kg		66	70 - 130	
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.202	0.1311	F1	mg/Kg		65	70 - 130	
o-Xylene	<0.00202	U F2 F1	0.101	0.06867	F1	mg/Kg		68	70 - 130	

MS MS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	71		70 - 130

Lab Sample ID: 880-7749-A-1-E MSD

Matrix: Solid

Analysis Batch: 11027

Client Sample	ID: Matrix Spike Duplicate
	Prep Type: Total/NA

Prep Batch: 11059

Prep Type: Total/NA

Prep Batch: 11059

Sample Sample Spike MSD MSD %Rec. Result Qualifier RPD Limit Analyte Added Result Qualifier %Rec Limits Unit 0.0996 Benzene <0.00202 U F2 F1 0.05940 F2 F1 mg/Kg 59 70 - 130 52 35 0.0996 <0.00202 U F2 F1 0.04594 F2 F1 46 70 - 130 153

Toluene mg/Kg 35 Ethylbenzene <0.00202 U F2 F1 0.0996 0.03657 F2 F1 37 70 - 130 57 35 mg/Kg 0.199 70 - 130 m-Xylene & p-Xylene <0.00403 U F2 F1 0.07219 F2 F1 mq/Kq 36 58 35 <0.00202 U F2 F1 0.0996 0.04080 F2 F1 70 - 130 51 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery Q	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-11158/1-A

Matrix: Solid

Analysis Batch: 11193

Client Sample ID: Method Blank	
Prep Type: Total/NA	4
Prep Batch: 11158	3

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics 50.0 11/02/21 20:41 <50.0 U 11/01/21 14:48 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 50.0 <50.0 U 11/01/21 14:48 11/02/21 20:41 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 11/01/21 14:48 11/02/21 20:41 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	11/01/21 14:-	11/02/21 20:41	1
o-Terphenyl	114		70 - 130	11/01/21 14:-	18 11/02/21 20:41	1

Lab Sample ID: LCS 880-11158/2-A

Matrix: Solid

Analysis Batch: 11193

Client Sample ID:	Lab Control Sample
	Prep Type: Total/NA

Prep Batch: 11158

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	999.0		mg/Kg		100	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	991.9		mg/Kg		99	70 - 130	
C10-C28)								

Job ID: 890-1501-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-11158/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 11193

Surrogate

Prep Type: Total/NA

Prep Batch: 11158

1-Chlorooctane 101 70 - 130 o-Terphenyl 104 70 - 130

Lab Sample ID: LCSD 880-11158/3-A Client Sample ID: Lab Control Sample Dup

Limits

Matrix: Solid

Analysis Batch: 11193

Prep Type: Total/NA

Prep Batch: 11158

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 897.3 90 70 - 13011 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1021 102 mg/Kg 70 - 1303 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-1495-A-1-H MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 11193

Prep Type: Total/NA

Prep Batch: 11158

Sample Sample Spike MS MS Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 997 1026 mg/Kg 103 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 997 964.5 mg/Kg 95 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 99 o-Terphenyl 99 70 - 130

Lab Sample ID: 890-1495-A-1-I MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 11193

Prep Type: Total/NA

Prep Batch: 11158

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U 1000 1156 Gasoline Range Organics <49.9 mg/Kg 116 70 - 130 12 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 1000 975.7 mg/Kg 95 70 - 130 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	115		70 - 130

QC Sample Results

Job ID: 890-1501-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11233/1-A

Matrix: Solid

Analysis Batch: 11381

Client Sample ID: Method Blank **Prep Type: Soluble**

MB MB Dil Fac MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 11/07/21 01:48

Lab Sample ID: LCS 880-11233/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11381

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 229.5 mg/Kg 92 90 - 110

Lab Sample ID: LCSD 880-11233/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11381

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 233.0 mg/Kg 90 - 110

Lab Sample ID: 880-7551-A-2-E MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11381

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits 12500 Chloride 17400 35790 F1 148 90 - 110 mg/Kg

Lab Sample ID: 880-7551-A-2-F MSD

Matrix: Solid

Analysis Batch: 11381

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 17400 F1 12500 35360 F1 mg/Kg 144 90 - 110 20

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Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Analysis Batch: 11027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Total/NA	Solid	8021B	11059
890-1501-2	DS-2 (3)	Total/NA	Solid	8021B	11059
890-1501-3	DS-3 (2)	Total/NA	Solid	8021B	11059
MB 880-11059/5-A	Method Blank	Total/NA	Solid	8021B	11059
LCS 880-11059/1-A	Lab Control Sample	Total/NA	Solid	8021B	11059
LCSD 880-11059/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11059
880-7749-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	11059
880-7749-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11059

Prep Batch: 11059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Total/NA	Solid	5035	<u> </u>
890-1501-2	DS-2 (3)	Total/NA	Solid	5035	
890-1501-3	DS-3 (2)	Total/NA	Solid	5035	
MB 880-11059/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11059/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11059/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7749-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-7749-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 11149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Total/NA	Solid	Total BTEX	
890-1501-2	DS-2 (3)	Total/NA	Solid	Total BTEX	
890-1501-3	DS-3 (2)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 11158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Total/NA	Solid	8015NM Prep	
890-1501-2	DS-2 (3)	Total/NA	Solid	8015NM Prep	
890-1501-3	DS-3 (2)	Total/NA	Solid	8015NM Prep	
MB 880-11158/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11158/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1495-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1495-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Total/NA	Solid	8015B NM	11158
890-1501-2	DS-2 (3)	Total/NA	Solid	8015B NM	11158
890-1501-3	DS-3 (2)	Total/NA	Solid	8015B NM	11158
MB 880-11158/1-A	Method Blank	Total/NA	Solid	8015B NM	11158
LCS 880-11158/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11158
LCSD 880-11158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11158
890-1495-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	11158
890-1495-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11158

Eurofins Xenco, Carlsbad

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QC Association Summary

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1501-1

SDG: Lea County NM

GC Semi VOA

Analysis Batch: 11344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Total/NA	Solid	8015 NM	
890-1501-2	DS-2 (3)	Total/NA	Solid	8015 NM	
890-1501-3	DS-3 (2)	Total/NA	Solid	8015 NM	
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HPLC/IC

Leach Batch: 11233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Soluble	Solid	DI Leach	
890-1501-2	DS-2 (3)	Soluble	Solid	DI Leach	
890-1501-3	DS-3 (2)	Soluble	Solid	DI Leach	
MB 880-11233/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11233/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11233/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7551-A-2-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7551-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 11381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Soluble	Solid	300.0	11233
890-1501-2	DS-2 (3)	Soluble	Solid	300.0	11233
890-1501-3	DS-3 (2)	Soluble	Solid	300.0	11233
MB 880-11233/1-A	Method Blank	Soluble	Solid	300.0	11233
LCS 880-11233/2-A	Lab Control Sample	Soluble	Solid	300.0	11233
LCSD 880-11233/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11233
880-7551-A-2-E MS	Matrix Spike	Soluble	Solid	300.0	11233
880-7551-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11233

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Date Received: 10/29/21 12:45

Job ID: 890-1501-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: DS-1 (2) Date Collected: 10/25/21 00:00

Lab Sample ID: 890-1501-1

Matrix: Solid

XEN MID

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 5.05 g Total/NA Prep 5 mL 11059 11/01/21 10:32 MR XEN MID 8021B Total/NA Analysis 1 5 mL 5 mL 11027 11/01/21 22:08 MR XEN MID Total/NA Analysis Total BTEX 11149 11/03/21 12:38 ΑJ XEN MID Total/NA 8015 NM Analysis 1 11344 11/03/21 08:46 AJ XEN MID Total/NA 8015NM Prep 11/01/21 14:48 XEN MID Prep 10.02 g 10 mL 11158 DM Total/NA Analysis 8015B NM 11193 11/02/21 22:52 AJ XEN MID Soluble DI Leach 5.02 g 50 mL 11233 11/02/21 12:00 СН XEN MID

Client Sample ID: DS-2 (3) Lab Sample ID: 890-1501-2

11381

11/07/21 02:32

CH

Date Collected: 10/25/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Soluble

Leach

Analysis

300.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11059	11/01/21 10:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/01/21 22:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11158	11/01/21 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		5			11193	11/02/21 23:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		20			11381	11/07/21 02:39	CH	XEN MI

Client Sample ID: DS-3 (2) Lab Sample ID: 890-1501-3 Date Collected: 10/25/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11059	11/01/21 10:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/01/21 23:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11158	11/01/21 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		5			11193	11/02/21 23:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		10			11381	11/07/21 02:47	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc. Job ID: 890-1501-1 Project/Site: Kaiser SWD SDG: Lea County NM

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Texas		ogram	Identification Number	Expiration Date	
		ELAP	T104704400-21-22	06-30-22	
The following analytes the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo	
A al: - Made - al					
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM	Prep Method	Matrix Solid	Analyte Total TPH		

Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory	
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID	
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID	
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID	
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID	
300.0	Anions, Ion Chromatography	MCAWW	XEN MID	
5035	Closed System Purge and Trap	SW846	XEN MID	
8015NM Prep	Microextraction	SW846	XEN MID	
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID	

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1501-1 SDG: Lea County NM

	ODO. LCC	a County NVI
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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dept
890-1501-1	DS-1 (2)	Solid	10/25/21 00:00	10/29/21 12:45	2
890-1501-2	DS-2 (3)	Solid	10/25/21 00:00	10/29/21 12:45	3
890-1501-3	DS-3 (2)	Solid	10/25/21 00:00	10/29/21 12:45	2

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Tetra Tech, Inc. Tetra Tech, Inc.	Relinquished by:	Relinquished by:						(LABUSE)	LAB#		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4
Sampler Symbol Samp		10/29/21 Date: Ti			DS-3 (2')	DS-2 (3')	DS-1 (2')		SAMPLE IDENTIFICATION				Dusty McInturff -	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
Colair Gonzales Fax WATER WATE	Received by:	Received by: Received by:			10/25/2021	10/25/2021	10/25/2021		YEAR: 2020	SAMPLING		Sampler Signature:	াড	Project #:		Site Manager:	·
FILTERED (Y/N) ANALYSIS REQUEST Sample Temperature Sample Temperature Sample Temperature Sample Temperature	Date:	Date: Time:						WATER SOIL HCL HNO ₃ ICE	1	MATRIX		Ezequiel Moreno		212C-MD-02230		Clair Gonzales	9)1W W8II Siteel: Site 100 Midland,Texas 79705 Tel (432) 882-4559 Fex (432) 882-3946
DEX USH: STANDARD STANDAR	CCITCIO) HAND DELIVERED	ONLY Sample Temperature						FILTERE BTEX 80 TPH TX1 TPH 801 PAH 827 Total Met TCLP Me	D21B 1005 (15M (170C) tals A etals A	BTE Ext to GRO-	C35) DRO - 0 a Cd Cr	ORO - I	Hg				
	Rush Charges Authorized Special Report Limits or TRRP Report FEDEX UPS Tracking #:	STANDARD			×	×	×	RCI GC/MS V GC/MS S PCB's 80 NORM PLM (Asi Chloride Chloride General	/ol. 8 Semi. 082 / besto Su	260B / Vol. 8 608 s)	TDS mistry (s		ached l	ist)		r Specify Method N	

1089 N Canal St

Eurofins Xenco, Carlsbad

Chain of Custody Record

🧩 eurofins

Environment Testing

State Zip TX 79701 DS-2 (3) (890-1501-2) DS-1 (2) (890-1501-1) Sample Identification - Client ID (Lab ID) Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.

attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. DS-3 (2) (890-1501-3) Project Name Kaiser SWD 432-704-5440(Tel) Carlsbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199 ossible Hazard Identification /lidland eliverable Requested 1 II III IV Other (specify) mpty Kit Relinquished by 211 W Florida Ave hipping/Receiving lient Information linquished by nquished by inquished by rofins Xenco (Sub Contract Lab) Custody Seal No Ó Date/Time TAT Requested (days) Due Date Requested 11/4/2021 Date/Time Primary Deliverable Rank 2 88000039 NO# Phone roject #: 10/25/21 10/25/21 10/25/21 Mountain Mountain Mountain Sample (C=comp, G=grab) Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Kramer Jessica E-Mail essica kramer@eurofinset.com Field Filtered Sample (Yes or No) NELAP - Louisiana, NELAP - Texas ime Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Month Perform MS/MSD (Yes or No) Special Instructions/QC Requirements 8016MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks. Received by: × × × 8021B/5035FP_Calc BTEX × × \times × 300_ORGFM_28D/DI_LEACH Chloride × \times × × × Total_BTEX_GCV Analysis Requested 8015MOD_Calc × \times × Disposal By Lab State of Origin: New Mexico Carrier Tracking No(s) Method of Shipment . Ø 6 Date/Time 0 Archive For Total Number of containers 890-1501-1 Preservation (COC No: 890-488 1 **±**0 ¬поо∞> Page 1 of 1 Ice
I DI Water
EDTA
EDA 2n Acetate
Nitric Acid
NaHSO4
MeOH
Ascorbic Acid 된 Special Instructions/Note Compan) Company M Hexane
V None
D AsNaO2
Na2O4S
Na2O4S
Na2SO3
Na2SC3
R Na2SC3
S H2SO4
T TSP Dodecahydrate
J Acetone
J Acetone Ver: 06/08/202 **Months**

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1501-1

SDG Number: Lea County NM

Login Number: 1501 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

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.	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	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1501-1 SDG Number: Lea County NM

List Source: Eurofins Xenco, Midland

List Creation: 11/01/21 08:46 AM

Creator: Kramer, Jessica

Login Number: 1501 List Number: 2

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	2.6/2.7
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	N/A	

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1770-1

Laboratory Sample Delivery Group: Lea County New Mexico Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

SCRAMER

Authorized for release by: 1/4/2022 2:38:20 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

----- LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Tetra Tech, Inc.

Laboratory Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

Qualifier Description

F2 MS/MSD 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.

GC Semi VOA

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.

Elisted 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.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Job ID: 890-1770-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1770-1

Receipt

The samples were received on 12/28/2021 10:30 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 2.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15736 and analytical batch 880-15788 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-3 (890-1770-2), SW-10 (890-1770-7) and (880-9746-A-1-D). 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.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15746 and analytical batch 880-15825 were outside control limits. Sample matrix interference and/or non-homogeneity are 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-15803 and analytical batch 880-15920 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Lab Sample ID: 890-1770-1

Client Sample ID: SW-1 Date Collected: 12/23/21 00:00 Matrix: Solid Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/29/21 14:29	12/30/21 20:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/29/21 14:29	12/30/21 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				12/29/21 14:29	12/30/21 20:30	1
1,4-Difluorobenzene (Surr)	79		70 - 130				12/29/21 14:29	12/30/21 20:30	1
Method: Total BTEX - Total BTE)	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/04/22 15:22	1
Method: 8015 NM - Diesel Range Analyte	•	Qualifier	RL	MDI	Unit	D			
				MIDL			Prepared	Analyzed	
Total TPH	<49.9	U	49.9	MIDE	mg/Kg	=	Prepared	Analyzed 01/03/22 14:33	
Total TPH Method: 8015B NM - Diesel Rang				MDL			Prepared		
- -	ge Organics (D					<u>b</u> D	Prepared		Dil Fac
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg			01/03/22 14:33	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier U F1	49.9		mg/Kg		Prepared	01/03/22 14:33 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (Di Result <49.9	RO) (GC) Qualifier U F1	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 12/29/21 15:34	01/03/22 14:33 Analyzed 12/31/21 21:44	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 12/29/21 15:34 12/29/21 15:34	01/03/22 14:33 Analyzed 12/31/21 21:44 12/31/21 21:44	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D) Result <49.9 <49.9	RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 12/29/21 15:34 12/29/21 15:34 12/29/21 15:34	01/03/22 14:33 Analyzed 12/31/21 21:44 12/31/21 21:44 12/31/21 21:44	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 12/29/21 15:34 12/29/21 15:34 12/29/21 15:34 Prepared	Analyzed 12/31/21 21:44 12/31/21 21:44 12/31/21 21:44 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery** 98 113	RO) (GC) Qualifier U F1 U F1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 12/29/21 15:34 12/29/21 15:34 12/29/21 15:34 Prepared 12/29/21 15:34	01/03/22 14:33 Analyzed 12/31/21 21:44 12/31/21 21:44 Analyzed 12/31/21 21:44	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 98 113 omatography -	RO) (GC) Qualifier U F1 U F1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/29/21 15:34 12/29/21 15:34 12/29/21 15:34 Prepared 12/29/21 15:34	01/03/22 14:33 Analyzed 12/31/21 21:44 12/31/21 21:44 Analyzed 12/31/21 21:44	1

Client Sample ID: SW-3 Lab Sample ID: 890-1770-2 Matrix: Solid

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/29/21 14:29	12/30/21 20:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/29/21 14:29	12/30/21 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				12/29/21 14:29	12/30/21 20:50	1

Eurofins Xenco, Carlsbad

1/4/2022

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1770-1 SDG: Lea County New Mexico

Lab Sample ID: 890-1770-2

Matrix: Solid

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30 Sample Depth: 0 - 4

Client Sample ID: SW-3

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
mountain commercial and compounds	() (

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104	70 - 130	12/29/21 14:29	12/30/21 20:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	ma/Ka			01/04/22 15:22	1

Method: 8015 NM - Diesel	Range Organics (DRO) (GC)	

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg	 		01/04/22 15:21	1

Markland, 004 FD	NIM Disease	D		(DDO)	100
Method: 8015B	NIVI - DIESEI	Range Org	janics ((DKO)	(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		12/29/21 15:34	12/31/21 22:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/29/21 15:34	12/31/21 22:46	1
Oll Range Organics (Over C28-C3	6) <50.0	U	50.0		mg/Kg		12/29/21 15:34	12/31/21 22:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	12/29/21 15:34	12/31/21 22:46	1
o-Terphenyl	116		70 - 130	12/29/21 15:34	12/31/21 22:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	341		4.95		mg/Kg			01/03/22 18:07	1

Client Sample ID: SW-6 Lab Sample ID: 890-1770-3

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

inomount of the following of gu	ino compoundo	()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/21 14:29	12/30/21 21:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/21 14:29	12/30/21 21:10	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		12/29/21 14:29	12/30/21 21:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/21 14:29	12/30/21 21:10	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		12/29/21 14:29	12/30/21 21:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/21 14:29	12/30/21 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				12/29/21 14:29	12/30/21 21:10	1
1 1 Diffuorabanzana (Surr)	104		70 120				12/20/21 14:20	12/20/21 21:10	1

4-Bromofluorobenzene (Surr)	124	70 - 130	12/29/21 14:29	12/30/21 21:10	1
1,4-Difluorobenzene (Surr)	104	70 - 130	12/29/21 14:29	12/30/21 21:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/22 15:22	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg		_	01/04/22 15:21	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Client Sample ID: SW-6

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Lab Sample ID: 890-1770-3 Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared <49.9 U 49.9 12/29/21 15:34 12/31/21 23:06 Gasoline Range Organics mg/Kg (GRO)-C6-C10 49.9 12/29/21 15:34 12/31/21 23:06 Diesel Range Organics (Over <49.9 U mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 12/29/21 15:34 12/31/21 23:06 %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 70 - 130 12/29/21 15:34 12/31/21 23:06 90 o-Terphenyl 101 70 - 130 12/29/21 15:34 12/31/21 23:06 Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed Chloride 4800 49.8 mg/Kg 01/03/22 17:31

Client Sample ID: SW-7 Lab Sample ID: 890-1770-4 Date Collected: 12/23/21 00:00 **Matrix: Solid**

Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 21:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 21:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 21:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/29/21 14:29	12/30/21 21:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 21:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/29/21 14:29	12/30/21 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				12/29/21 14:29	12/30/21 21:31	1
1,4-Difluorobenzene (Surr)	90		70 - 130				12/29/21 14:29	12/30/21 21:31	1
Method: 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			01/04/22 15:22	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/04/22 15:21	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		12/29/21 15:34	12/31/21 23:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/29/21 15:34	12/31/21 23:27	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/29/21 15:34	12/31/21 23:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				12/29/21 15:34	12/31/21 23:27	1
o-Terphenyl	108		70 ₋ 130				12/29/21 15:34	12/31/21 23:27	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1770-1

SDG: Lea County New Mexico

Client Sample ID: SW-7

Lab Sample ID: 890-1770-4

Matrix: Solid

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	2400		50.0		mg/Kg			01/03/22 17:39	10

Client Sample ID: SW-8 Lab Sample ID: 890-1770-5 **Matrix: Solid**

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Total DTEV

(GRO)-C6-C10

Diesel Range Organics (Over

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 21:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 21:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 21:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/29/21 14:29	12/30/21 21:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 21:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/29/21 14:29	12/30/21 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				12/29/21 14:29	12/30/21 21:51	1
1,4-Difluorobenzene (Surr)	89		70 - 130				12/29/21 14:29	12/30/21 21:51	1

Iotal BTEX	<0.00402	U	0.00402		mg/kg			01/04/22 15:22	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/04/22 15:21	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/29/21 15:34	12/31/21 23:48	1

0.00400

MDL Unit

mg/Kg

Prepared

12/29/21 15:34

Analyzed

01/04/22 15:22

12/31/21 23:48

Result Qualifier

<50.0 U

C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	12/29/21 15:34	12/31/21 23:48	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130		12/29/21 15:34	12/31/21 23:48	1
o-Terphenyl	116		70 - 130		12/29/21 15:34	12/31/21 23:48	1

50.0

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9820		50.0		mg/Kg			12/31/21 10:48	10

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Client Sample ID: SW-9 Lab Sample ID: 890-1770-6

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		12/29/21 14:29	12/30/21 22:12	
Toluene	<0.00202	U	0.00202		mg/Kg		12/29/21 14:29	12/30/21 22:12	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/29/21 14:29	12/30/21 22:12	
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/29/21 14:29	12/30/21 22:12	
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/29/21 14:29	12/30/21 22:12	
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/29/21 14:29	12/30/21 22:12	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	126		70 - 130				12/29/21 14:29	12/30/21 22:12	
1,4-Difluorobenzene (Surr)	75		70 - 130				12/29/21 14:29	12/30/21 22:12	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/04/22 15:22	
Total TPH	<50.0	U	50.0		mg/Kg			01/04/22 15:21	
			00.0		mg/rtg			01/04/22 10.21	
Method: 8015B NM - Diesel Rang	•					_			
Analyte	Result <50.0	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Cacolina Danga Organice									
Gasoline Range Organics	\ 30.0	U	50.0		mg/Kg		12/29/21 15:34	01/01/22 00:09	Dil Fa
(GRO)-C6-C10									
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0		50.0 50.0		mg/Kg mg/Kg		12/29/21 15:34	01/01/22 00:09	
(GRO)-C6-C10		U							
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/29/21 15:34	01/01/22 00:09	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0	U	50.0 50.0		mg/Kg		12/29/21 15:34 12/29/21 15:34	01/01/22 00:09	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 <50.0 %Recovery	U	50.0 50.0 <i>Limits</i>		mg/Kg		12/29/21 15:34 12/29/21 15:34 Prepared	01/01/22 00:09 01/01/22 00:09 Analyzed	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 **Recovery 92 108 pmatography -	U Qualifier Soluble	50.0 50.0 <u>Limits</u> 70 - 130		mg/Kg		12/29/21 15:34 12/29/21 15:34 Prepared 12/29/21 15:34	01/01/22 00:09 01/01/22 00:09 Analyzed 01/01/22 00:09	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 **Recovery 92 108 pmatography -	U U Qualifier	50.0 50.0 <u>Limits</u> 70 - 130	MDL	mg/Kg	<u>D</u>	12/29/21 15:34 12/29/21 15:34 Prepared 12/29/21 15:34	01/01/22 00:09 01/01/22 00:09 Analyzed 01/01/22 00:09	

Client Sample ID: SW-10 Lab Sample ID: 890-1770-7 Matrix: Solid

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 22:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 22:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 22:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/29/21 14:29	12/30/21 22:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 22:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/29/21 14:29	12/30/21 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130				12/29/21 14:29	12/30/21 22:32	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1770-1

SDG: Lea County New Mexico

Lab Sample ID: 890-1770-7

Matrix: Solid

Date Collected: 12/23/21 00:00

Client Sample ID: SW-10

Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Method: 8021B -	Volatile Ord	anic Com	nounds ((GC) ((Continued)	
Method. 002 1D -	Voiatile Oit	Janiic Com	poullus (v	5 0, ((Continueu)	

Surrogate	%Recovery Qualif	ier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	123	70 - 130	12/29/21 14:29	12/30/21 22:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	ma/Ka			01/04/22 15:22	1

Method: 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	ma/Ka			01/04/22 15:21	1

Method: 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		12/29/21 15:34	01/01/22 00:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/29/21 15:34	01/01/22 00:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/29/21 15:34	01/01/22 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97	70 - 130	12/29/21 15:34	01/01/22 00:30	1
o-Terphenyl	113	70 - 130	12/29/21 15:34	01/01/22 00:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	354		4.98		mg/Kg			12/31/21 11:05	1

Client Sample ID: SW-11 Lab Sample ID: 890-1770-8 **Matrix: Solid**

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

	,	/							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/30/21 14:12	01/02/22 04:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/30/21 14:12	01/02/22 04:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/30/21 14:12	01/02/22 04:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/30/21 14:12	01/02/22 04:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/30/21 14:12	01/02/22 04:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/30/21 14:12	01/02/22 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130				12/30/21 14:12	01/02/22 04:00	1
1,4-Difluorobenzene (Surr)	89		70 - 130				12/30/21 14:12	01/02/22 04:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401		ma/Ka				01/04/22 15:22	1

Analyte	Result Qual	ifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			01/04/22 15:21	1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Client Sample ID: SW-11 Lab Sample ID: 890-1770-8

Date Collected: 12/23/21 00:00 Matrix: Solid
Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		12/29/21 15:34	01/01/22 00:50	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		12/29/21 15:34	01/01/22 00:50	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/29/21 15:34	01/01/22 00:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				12/29/21 15:34	01/01/22 00:50	1
o-Terphenyl	109		70 - 130				12/29/21 15:34	01/01/22 00:50	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					mg/Kg			12/31/21 11:14	

6

8

9

10

40

13

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-9746-A-1-B MS	Matrix Spike	124	79	
880-9746-A-1-C MSD	Matrix Spike Duplicate	116	92	
880-9746-A-6-G MS	Matrix Spike	127	111	
880-9746-A-6-H MSD	Matrix Spike Duplicate	127	106	
390-1770-1	SW-1	122	79	
390-1770-2	SW-3	131 S1+	104	
390-1770-3	SW-6	124	104	
390-1770-4	SW-7	128	90	
390-1770-5	SW-8	129	89	
390-1770-6	SW-9	126	75	
390-1770-7	SW-10	167 S1+	123	
390-1770-8	SW-11	156 S1+	89	
CS 880-15736/1-A	Lab Control Sample	144 S1+	110	
CS 880-15812/1-A	Lab Control Sample	121	0 S1-	
CSD 880-15736/2-A	Lab Control Sample Dup	109	99	
CSD 880-15812/2-A	Lab Control Sample Dup	143 S1+	117	
/IB 880-15736/5-A	Method Blank	103	105	
10 000 1070070 71	Method Blank	90	87	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1770-1	SW-1	98	113	
890-1770-1 MS	SW-1	86	87	
890-1770-1 MSD	SW-1	87	88	
890-1770-2	SW-3	101	116	
390-1770-3	SW-6	90	101	
890-1770-4	SW-7	93	108	
890-1770-5	SW-8	100	116	
890-1770-6	SW-9	92	108	
890-1770-7	SW-10	97	113	
890-1770-8	SW-11	95	109	
_CS 880-15746/2-A	Lab Control Sample	112	108	
_CSD 880-15746/3-A	Lab Control Sample Dup	100	96	
MB 880-15746/1-A	Method Blank	108	132 S1+	

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OTPH = o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-1770-1 SDG: Lea County New Mexico Project/Site: Kaiser SWD

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15736/5-A

Analysis Batch: 15788

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15736

1

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 14:42	
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 14:42	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 14:42	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/29/21 14:29	12/30/21 14:42	
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 14:42	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/29/21 14:29	12/30/21 14:42	

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	12/29/21 14:29	12/30/21 14:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/29/21 14:29	12/30/21 14:42	1

Lab Sample ID: LCS 880-15736/1-A

Matrix: Solid

Analysis Batch: 15788

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15736

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08657		mg/Kg		87	70 - 130	
Toluene	0.100	0.09264		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.09669		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2048		mg/Kg		102	70 - 130	
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	110		70 - 130		

Lab Sample ID: LCSD 880-15736/2-A

Matrix: Solid

Analysis Batch: 15788

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 15736

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07239		mg/Kg		72	70 - 130	18	35
Toluene	0.100	0.07560		mg/Kg		76	70 - 130	20	35
Ethylbenzene	0.100	0.07364		mg/Kg		74	70 - 130	27	35
m-Xylene & p-Xylene	0.200	0.1618		mg/Kg		81	70 - 130	23	35
o-Xylene	0.100	0.08266		mg/Kg		83	70 - 130	22	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-9746-A-1-B MS

Matrix: Solid

Analysis Batch: 15788

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 15736

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.101	0.05309	F1	mg/Kg		53	70 - 130	
Toluene	<0.00200	U F1	0.101	0.06625	F1	mg/Kg		66	70 - 130	

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QC Sample Results

Job ID: 890-1770-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Analysis Batch: 15788

Lab Sample ID: 880-9746-A-1-B MS Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15736

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00200 U 0.101 0.07124 71 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00399 0.202 0.1407 mg/Kg 70 70 - 130 o-Xylene <0.00200 U 0.101 0.07366 mg/Kg 73 70 - 130

MS MS

Surrogate	%Recovery Qua	alifier Limits
4-Bromofluorobenzene (Surr)	124	70 - 130
1,4-Difluorobenzene (Surr)	79	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15736

Matrix: Solid Analysis Batch: 15788

Lab Sample ID: 880-9746-A-1-C MSD

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.100 0.05242 F1 Benzene <0.00200 UF1 mg/Kg 52 70 - 130 35 62 Toluene <0.00200 UF1 0.100 0.06213 F1 mg/Kg 70 - 130 6 35 Ethylbenzene <0.00200 0.100 0.07132 mg/Kg 71 70 - 130 0 35 U 0.200 0.1372 F1 70 - 130 35 m-Xylene & p-Xylene < 0.00399 UF1 mq/Kq 69 3 0.100 <0.00200 U 0.07030 70 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	116	70 - 130
1 4-Diffuorobenzene (Surr)	92	70 130

Lab Sample ID: MB 880-15812/5-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15812

MB MB

Result Qualifier

Analyte MDL Unit Prepared Dil Fac RL Analyzed Benzene <0.00200 U 0.00200 mg/Kg 12/30/21 14:12 01/01/22 21:46 Toluene <0.00200 U 0.00200 mg/Kg 12/30/21 14:12 01/01/22 21:46 Ethylbenzene <0.00200 U 0.00200 mg/Kg 12/30/21 14:12 01/01/22 21:46 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 12/30/21 14:12 01/01/22 21:46 12/30/21 14:12 0.00200 01/01/22 21:46 o-Xylene <0.00200 U mg/Kg <0.00400 U Xylenes, Total 0.00400 mg/Kg 12/30/21 14:12 01/01/22 21:46

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	12/30/21 14:12	01/01/22 21:46	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/30/21 14:12	01/01/22 21:46	1

Lab Sample ID: LCS 880-15812/1-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15812

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.09353		mg/Kg		94	70 - 130
Toluene	0.100	0.08852		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.07882		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1608		mg/Kg		80	70 - 130

Prep Batch: 15812

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-15812/1-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid Analysis Batch: 15844

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits D o-Xylene 0.100 0.07679 70 - 130 mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 121 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 0 S1-

Lab Sample ID: LCSD 880-15812/2-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 15844

Prep Batch: 15812 Spike LCSD LCSD RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.07182 mg/Kg 72 70 - 130 26 35 Toluene 0.100 0.08616 mg/Kg 86 70 - 130 3 35 Ethylbenzene 0.100 0.08216 mg/Kg 82 70 - 130 4 35 35 m-Xylene & p-Xylene 0.200 0.1660 mg/Kg 83 70 - 130 o-Xylene 0.100 0.08149 mg/Kg 81 70 - 130

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 143 S1+ 70 - 130 1,4-Difluorobenzene (Surr) 117 70 - 130

Lab Sample ID: 880-9746-A-6-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 15844

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F1	0.0994	0.06266	F1	mg/Kg		63	70 - 130	
Toluene	<0.00202	U F2 F1	0.0994	0.06389	F1	mg/Kg		64	70 - 130	
Ethylbenzene	<0.00202	U F1	0.0994	0.06876	F1	mg/Kg		69	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1390		mg/Kg		70	70 - 130	
o-Xylene	<0.00202	U F1	0.0994	0.06885	F1	mg/Kg		69	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 127 70 - 130 1,4-Difluorobenzene (Surr) 111

Lab Sample ID: 880-9746-A-6-H MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 15844

Analysis Batch: 15844									Prep	Batch:	15812
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1	0.0998	0.06980	-	mg/Kg		70	70 - 130	11	35
Toluene	<0.00202	U F2 F1	0.0998	0.007273	F2 F1	mg/Kg		7	70 - 130	159	35
Ethylbenzene	<0.00202	U F1	0.0998	0.06958		mg/Kg		70	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1399		mg/Kg		70	70 - 130	1	35
o-Xylene	<0.00202	U F1	0.0998	0.06893	F1	mg/Kg		69	70 - 130	0	35

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Released to Imaging: 9/1/2023 3:11:42 PM

Prep Type: Total/NA

Prep Batch: 15812

Job ID: 890-1770-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-9746-A-6-H MSD

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15812

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 127 70 - 130 1,4-Difluorobenzene (Surr) 106 70 - 130

MSD MSD

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-15746/1-A

Matrix: Solid

Analysis Batch: 15825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15746

Dil Fac

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 12/29/21 15:34 12/31/21 20:42 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 12/29/21 15:34 12/31/21 20:42 C10-C28)

OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/29/21 15:34 12/31/21 20:42

MB MB

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 108 70 - 130 12/29/21 15:34 12/31/21 20:42 1-Chlorooctane o-Terphenyl 132 S1+ 70 - 130 12/29/21 15:34 12/31/21 20:42

Lab Sample ID: LCS 880-15746/2-A

Matrix: Solid

Analysis Batch: 15825

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 15746

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 941.7 mg/Kg 94 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1152 mg/Kg 115 70 - 130

C10-C28)

LCS LCS %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 112 o-Terphenyl 108 70 - 130

Lab Sample ID: LCSD 880-15746/3-A

Analysis Batch: 15825

Matrix: Solid

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 15746

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 888.9 89 70 - 130 6 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1107 70 - 130 20 mg/Kg 111

C10-C28)

LCSD LCSD %Recovery Qualifier

Surrogate Limits 100 70 - 130 1-Chlorooctane 96 70 - 130 o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1770-1 MS

Matrix: Solid Analysis Batch: 15825 Client Sample ID: SW-1 Prep Type: Total/NA Prep Batch: 15746

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1	996	484.2	F1	mg/Kg		46	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U F1	996	456.9	F1	mg/Kg		46	70 - 130	
C10-C28)										

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 86 o-Terphenyl 87 70 - 130

Lab Sample ID: 890-1770-1 MSD Client Sample ID: SW-1

Matrix: Solid

Analysis Batch: 15825

Prep Type: Total/NA

Prep Batch: 15746

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	495.1	F1	mg/Kg		47	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	467.3	F1	mg/Kg		47	70 - 130	2	20

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 87 70 - 130 o-Terphenyl 88 70 - 130

MB MB

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15755/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 15821

Prep Type: Soluble

Analyte Result Qualifier RL MDL Unit Prepared Dil Fac Analyzed Chloride <5.00 U 5.00 12/31/21 07:03 mg/Kg

Lab Sample ID: LCS 880-15755/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15821

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 	250	249.8		ma/Ka		100	90 - 110	

Lab Sample ID: LCSD 880-15755/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15821

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	253.3		mg/Kg		101	90 - 110	1	20	

Job ID: 890-1770-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-9745-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15821

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 274 2500 2976 mg/Kg 108 90 - 110

Lab Sample ID: 880-9745-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15821

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	274		2500	2966		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-9747-A-3-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

MR MR

Analysis Batch: 15821

MS MS %Rec. Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride <5.04 U 252 262.9 mg/Kg 103 90 - 110

Lab Sample ID: 880-9747-A-3-E MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15821

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	<5.04	U	252	259.9		mg/Kg		101	90 - 110	1	20

Lab Sample ID: MB 880-15803/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15920

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 01/03/22 16:56

Lab Sample ID: LCS 880-15803/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15920

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	245.5		ma/Ka		98	90 - 110		_

Lab Sample ID: LCSD 880-15803/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15920

	Spike	LCSD LCS	SD			%Rec.		RPD	
Analyte	Added		ıalifier Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	239.6	mg/Kg		96	90 - 110	2	20	

Lab Sample ID: 890-1770-1 MS Client Sample ID: SW-1 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15920

Analysis Batch. 10020										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	287	F1	250	527.7		mg/Kg		97	90 - 110	

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1770-1 MSD

Matrix: Solid

Client Sample ID: SW-1

Prep Type: Soluble

Analysis Batch: 15920

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	287	F1	250	505.3	F1	mg/Kg		88	90 - 110	4	20

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QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

GC VOA

Prep Batch: 15736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Total/NA	Solid	5035	
890-1770-2	SW-3	Total/NA	Solid	5035	
890-1770-3	SW-6	Total/NA	Solid	5035	
890-1770-4	SW-7	Total/NA	Solid	5035	
890-1770-5	SW-8	Total/NA	Solid	5035	
890-1770-6	SW-9	Total/NA	Solid	5035	
890-1770-7	SW-10	Total/NA	Solid	5035	
MB 880-15736/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15736/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15736/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9746-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-9746-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Total/NA	Solid	8021B	15736
890-1770-2	SW-3	Total/NA	Solid	8021B	15736
890-1770-3	SW-6	Total/NA	Solid	8021B	15736
890-1770-4	SW-7	Total/NA	Solid	8021B	15736
890-1770-5	SW-8	Total/NA	Solid	8021B	15736
890-1770-6	SW-9	Total/NA	Solid	8021B	15736
890-1770-7	SW-10	Total/NA	Solid	8021B	15736
MB 880-15736/5-A	Method Blank	Total/NA	Solid	8021B	15736
LCS 880-15736/1-A	Lab Control Sample	Total/NA	Solid	8021B	15736
LCSD 880-15736/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15736
880-9746-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	15736
880-9746-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15736

Prep Batch: 15812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-8	SW-11	Total/NA	Solid	5035	
MB 880-15812/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15812/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15812/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9746-A-6-G MS	Matrix Spike	Total/NA	Solid	5035	
880-9746-A-6-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-8	SW-11	Total/NA	Solid	8021B	15812
MB 880-15812/5-A	Method Blank	Total/NA	Solid	8021B	15812
LCS 880-15812/1-A	Lab Control Sample	Total/NA	Solid	8021B	15812
LCSD 880-15812/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15812
880-9746-A-6-G MS	Matrix Spike	Total/NA	Solid	8021B	15812
880-9746-A-6-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15812

Analysis Batch: 16004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Total/NA	Solid	Total BTEX	
890-1770-2	SW-3	Total/NA	Solid	Total BTEX	
890-1770-3	SW-6	Total/NA	Solid	Total BTEX	

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Released to Imaging: 9/1/2023 3:11:42 PM

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QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

GC VOA (Continued)

Analysis Batch: 16004 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-4	SW-7	Total/NA	Solid	Total BTEX	
890-1770-5	SW-8	Total/NA	Solid	Total BTEX	
890-1770-6	SW-9	Total/NA	Solid	Total BTEX	
890-1770-7	SW-10	Total/NA	Solid	Total BTEX	
890-1770-8	SW-11	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Total/NA	Solid	8015NM Prep	
890-1770-2	SW-3	Total/NA	Solid	8015NM Prep	
890-1770-3	SW-6	Total/NA	Solid	8015NM Prep	
890-1770-4	SW-7	Total/NA	Solid	8015NM Prep	
890-1770-5	SW-8	Total/NA	Solid	8015NM Prep	
890-1770-6	SW-9	Total/NA	Solid	8015NM Prep	
890-1770-7	SW-10	Total/NA	Solid	8015NM Prep	
890-1770-8	SW-11	Total/NA	Solid	8015NM Prep	
MB 880-15746/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15746/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15746/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1770-1 MS	SW-1	Total/NA	Solid	8015NM Prep	
890-1770-1 MSD	SW-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Total/NA	Solid	8015B NM	15746
890-1770-2	SW-3	Total/NA	Solid	8015B NM	15746
890-1770-3	SW-6	Total/NA	Solid	8015B NM	15746
890-1770-4	SW-7	Total/NA	Solid	8015B NM	15746
890-1770-5	SW-8	Total/NA	Solid	8015B NM	15746
890-1770-6	SW-9	Total/NA	Solid	8015B NM	15746
890-1770-7	SW-10	Total/NA	Solid	8015B NM	15746
890-1770-8	SW-11	Total/NA	Solid	8015B NM	15746
MB 880-15746/1-A	Method Blank	Total/NA	Solid	8015B NM	15746
LCS 880-15746/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15746
LCSD 880-15746/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15746
890-1770-1 MS	SW-1	Total/NA	Solid	8015B NM	15746
890-1770-1 MSD	SW-1	Total/NA	Solid	8015B NM	15746

Analysis Batch: 15912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Total/NA	Solid	8015 NM	_
890-1770-2	SW-3	Total/NA	Solid	8015 NM	
890-1770-3	SW-6	Total/NA	Solid	8015 NM	
890-1770-4	SW-7	Total/NA	Solid	8015 NM	
890-1770-5	SW-8	Total/NA	Solid	8015 NM	
890-1770-6	SW-9	Total/NA	Solid	8015 NM	
890-1770-7	SW-10	Total/NA	Solid	8015 NM	
890-1770-8	SW-11	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

HPLC/IC

Leach Batch: 15755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-3	SW-6	Soluble	Solid	DI Leach	
890-1770-4	SW-7	Soluble	Solid	DI Leach	
890-1770-5	SW-8	Soluble	Solid	DI Leach	
890-1770-6	SW-9	Soluble	Solid	DI Leach	
890-1770-7	SW-10	Soluble	Solid	DI Leach	
890-1770-8	SW-11	Soluble	Solid	DI Leach	
MB 880-15755/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15755/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15755/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9745-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9745-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-9747-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9747-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 15803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Soluble	Solid	DI Leach	
890-1770-2	SW-3	Soluble	Solid	DI Leach	
MB 880-15803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1770-1 MS	SW-1	Soluble	Solid	DI Leach	
890-1770-1 MSD	SW-1	Soluble	Solid	DI Leach	

Analysis Batch: 15821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-3	SW-6	Soluble	Solid	300.0	15755
890-1770-4	SW-7	Soluble	Solid	300.0	15755
890-1770-5	SW-8	Soluble	Solid	300.0	15755
890-1770-6	SW-9	Soluble	Solid	300.0	15755
890-1770-7	SW-10	Soluble	Solid	300.0	15755
890-1770-8	SW-11	Soluble	Solid	300.0	15755
MB 880-15755/1-A	Method Blank	Soluble	Solid	300.0	15755
LCS 880-15755/2-A	Lab Control Sample	Soluble	Solid	300.0	15755
LCSD 880-15755/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15755
880-9745-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	15755
880-9745-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15755
880-9747-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	15755
880-9747-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15755

Analysis Batch: 15920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Soluble	Solid	300.0	15803
890-1770-2	SW-3	Soluble	Solid	300.0	15803
MB 880-15803/1-A	Method Blank	Soluble	Solid	300.0	15803
LCS 880-15803/2-A	Lab Control Sample	Soluble	Solid	300.0	15803
LCSD 880-15803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15803
890-1770-1 MS	SW-1	Soluble	Solid	300.0	15803
890-1770-1 MSD	SW-1	Soluble	Solid	300.0	15803

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD
SDG: I

Job ID: 890-1770-1 SDG: Lea County New Mexico

Client Sample ID: SW-1

Lab Sample ID: 890-1770-1

. Matrix: Solid

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 20:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/03/22 14:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	12/31/21 21:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1			15920	01/03/22 17:31	CH	XEN MID

Client Sample ID: SW-3 Lab Sample ID: 890-1770-2

Date Collected: 12/23/21 00:00 Matrix: Solid

Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 20:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	12/31/21 22:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1			15920	01/03/22 18:07	CH	XEN MID

Client Sample ID: SW-6 Lab Sample ID: 890-1770-3

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 21:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	12/31/21 23:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	15755	12/29/21 16:19	CA	XEN MID
Soluble	Analysis	300.0		10			15821	01/03/22 17:31	CH	XEN MID

Client Sample ID: SW-7 Lab Sample ID: 890-1770-4

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 21:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID

Eurofins Xenco, Carlsbad

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Matrix: Solid

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Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Client Sample ID: SW-7

Lab Sample ID: 890-1770-4

Matrix: Solid

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	12/31/21 23:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15755	12/29/21 16:19	CA	XEN MID
Soluble	Analysis	300.0		10			15821	01/03/22 17:39	CH	XEN MID

Client Sample ID: SW-8 Lab Sample ID: 890-1770-5

Date Collected: 12/23/21 00:00 Matrix: Solid
Date Received: 12/28/21 10:30

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Amount Amount Number or Analyzed Type Run Factor Analyst Lab Total/NA 5035 Prep 4.98 g 5 mL 15736 12/29/21 14:29 MR XEN MID Total/NA Analysis 8021B 5 mL 5 mL 15788 12/30/21 21:51 MR XEN MID 1 Total/NA Total BTEX XEN MID Analysis 1 16004 01/04/22 15:22 AJ Total/NA Analysis 8015 NM 15912 01/04/22 15:21 XEN MID ΑJ XEN MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 15746 12/29/21 15:34 DM Total/NA Analysis 8015B NM 15825 12/31/21 23:48 AJ XEN MID Soluble Leach DI Leach 5 g 50 mL 15755 12/29/21 16:19 CA XEN MID Soluble Analysis 300.0 10 15821 12/31/21 10:48 CH XEN MID

Client Sample ID: SW-9 Lab Sample ID: 890-1770-6

Date Collected: 12/23/21 00:00 Matrix: Solid
Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 22:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	01/01/22 00:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	15755	12/29/21 16:19	CA	XEN MID
Soluble	Analysis	300.0		1			15821	12/31/21 10:57	CH	XEN MID

Client Sample ID: SW-10 Lab Sample ID: 890-1770-7

Date Collected: 12/23/21 00:00
Date Received: 12/28/21 10:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 22:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	15746 15825	12/29/21 15:34 01/01/22 00:30	DM AJ	XEN MID XEN MID

Eurofins Xenco, Carlsbad

Matrix: Solid

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Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Client Sample ID: SW-10

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30 Lab Sample ID: 890-1770-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	15755	12/29/21 16:19	CA	XEN MID
Soluble	Analysis	300.0		1			15821	12/31/21 11:05	CH	XEN MID

Client Sample ID: SW-11 Lab Sample ID: 890-1770-8

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15844	01/02/22 04:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	01/01/22 00:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	15755	12/29/21 16:19	CA	XEN MID
Soluble	Analysis	300.0		1			15821	12/31/21 11:14	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Texas		ogram	Identification Number	Expiration Date
		ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This list ma	av include analytes for wh
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	-,
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1770-1 SDG: Lea County New Mexico

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1770-1	SW-1	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-2	SW-3	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-3	SW-6	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-4	SW-7	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-5	SW-8	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-6	SW-9	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-7	SW-10	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-8	SW-11	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4

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ORIGINAL COPY

Relingershed by:	Relingershed by:	Relingershed by:											(LAB USE)	LAB#		Comments:	Receiving Laboratory:		invoice to:	Project Location: (county, state)	Project Name: 大	Client Name:	i		Analysis Request of Ch
Date: Time:		(O)	Date: Time:		SW-11 (0-4')	SW-10 (0-4')	SW-9 (0-4')	SW-8-(0-4¹)	SW-7 (0-4')	SW-6 (0-4')	SW-3 (0-4')	SW-1 (0-4')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions		Lea County, New Mexico	Kaiser SWD	Permian Water Solutions		Tetra Tech. Inc.	Analysis Request of Chain of Custody Record
	Received by:	(loe 1	Received by:		12/23/2021	12/23/2021	12/23/2021	12/23/2021	12/23/2021	12/23/2021	12/23/2021	12/23/2021	DATE	YEAR: 2020	SAMPLING		Sampler Signature:			Project #:		Site Manager:	090-		
Time:	Date: Lime:	300	Date: Time:		×	×	×	×	×	×	×	×	WATE SOIL HCL HNO ₃ ICE None	iR	MATRIX PRESERVATIVE METHOD		Ezequiel Moreno			212C-MD-02230		Clair Gonzales	3-1770 Chain of Custody		
	Sample Temperature	MLY X	AB I CE REMARKS:		×	×	×	×	×	×	×	×	PAH 8 Total M	RED (N 8021B X1005 015M (270C detals / Metals Volatile	BTE (Ext to (GRO Ag As E Ag As	- DRO - Ba Cd Cr Ba Cd C	ORO -	Hg	>)			ANALYSIS REQUEST			
Rush Charges Aumonzed		STANDARD	(8)		×	×	×	×	×	×	×	×	GC/MS GC/MS PCB's NORM PLM (A Chlorid	8082 Asbesto le de Sal Wat	Vol. 8 7608 os)	TDS		ache	d lis	st)		r Specify Method No.)			Page 1 of
			-	-	+	-		-		-	_		Hold						-						

Page 29 of 31

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1770-1

SDG Number: Lea County New Mexico

List Source: Eurofins Xenco, Carlsbad

Login Number: 1770 List Number: 1 Creator: Clifton, Cloe

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.	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	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1770-1

SDG Number: Lea County New Mexico

List Source: Eurofins Xenco, Midland

List Creation: 12/29/21 11:05 AM

Login Number: 1770 List Number: 2

Creator: Rodriguez, Leticia

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	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1502-1

Laboratory Sample Delivery Group: 212C-MD-02230

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

JURAMER

Authorized for release by: 11/10/2021 1:19:33 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 9/1/2023 3:11:42 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-1502-1 SDG: 212C-MD-02230

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Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Qualifiers

GC V	AC
Qualific	er

F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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.

Qualifier Description

Qualifier Description

GC Semi VOA

Qualifier

*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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
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)				

Relative Percent Difference, a measure of the relative difference between two points

Eurofins Xenco, Carlsbad

RL

RPD

Reporting Limit or Requested Limit (Radiochemistry)

Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.						
TEF	Toxicity Equivalent Factor (Dioxin)						
TEQ	Toxicity Equivalent Quotient (Dioxin)						
TNTC	Too Numerous To Count						

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Job ID: 890-1502-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1502-1

Receipt

The samples were received on 10/29/2021 12:45 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 2.2°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-3 (6) (890-1502-3), BH-4 (6) (890-1502-4), BH-5 (6) (890-1502-5), BH-6 (6) (890-1502-6), BH-8 (6) (890-1502-8), BH-9 (6) (890-1502-9), BH-10 (6) (890-1502-10), BH-12 (6) (890-1502-12) and BH-15 (6) (890-1502-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11075 and analytical batch 880-11206 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11109 and 880-11112 and analytical batch 880-11221 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-65 (15) (890-1502-65). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-11111 and analytical batch 880-11259 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-41 (15) (890-1502-41), BH-42 (15) (890-1502-42), BH-43 (15) (890-1502-43), BH-44 (15) (890-1502-44), BH-45 (15) (890-1502-45), BH-46 (15) (890-1502-46), BH-47 (15) (890-1502-47), BH-48 (15) (890-1502-48), BH-49 (15) (890-1502-49), BH-50 (15) (890-1502-50), BH-51 (15) (890-1502-51), BH-52 (15) (890-1502-52), BH-54 (15) (890-1502-54), BH-55 (15) (890-1502-55), BH-56 (15) (890-1502-56), (CCV 880-11259/51) and (MB 880-11111/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11113 and 880-11114 and analytical batch 880-11374 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-12 (10) (890-1502-103), SW-14 (15) (890-1502-105), SW-15 (15) (890-1502-106) and SW-25 (15) (890-1502-116). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-11258/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11445 and analytical batch 880-11449 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-57 (15) (890-1502-57), BH-58 (15) (890-1502-58), BH-59 (15) (890-1502-59), BH-60 (15) (890-1502-60), SW-29 (15) (890-1502-120), (CCV 880-11449/30) and (890-1520-A-1-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Job ID: 890-1502-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11223 and analytical batch 880-11317 were outside control limits. Sample matrix interference and/or non-homogeneity are 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-2 (6) (890-1502-2) and BH-20 (6) (890-1502-20). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11356 and analytical batch 880-11323 were outside control limits. Sample matrix interference and/or non-homogeneity are 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-61 (15) (890-1502-61), (890-1502-A-61-F MS) and (890-1502-A-61-G MSD). 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 880-11375 and analytical batch 880-11418 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11237 and analytical batch 880-11453 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11227 and analytical batch 880-11379 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11240 and analytical batch 880-11455 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11238 and 880-11238 and analytical batch 880-11454 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11242 and analytical batch 880-11456 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11236 and analytical batch 880-11452 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11243 and analytical batch 880-11705 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Job ID: 890-1502-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Lab Sample ID: 890-1502-1

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-1 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		11/01/21 11:05	11/03/21 00:47	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		11/01/21 11:05	11/03/21 00:47	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		11/01/21 11:05	11/03/21 00:47	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		11/01/21 11:05	11/03/21 00:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 00:47	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		11/01/21 11:05	11/03/21 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/01/21 11:05	11/03/21 00:47	1
1,4-Difluorobenzene (Surr)	73		70 - 130				11/01/21 11:05	11/03/21 00:47	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Total TPH	<49.9	U	49.9		mg/kg			11/05/21 13.50	!
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	49.9		mg/Kg		11/02/21 11:44	11/03/21 11:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 11:42	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 11:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				11/02/21 11:44	11/03/21 11:42	1
o-Terphenyl	118		70 - 130				11/02/21 11:44	11/03/21 11:42	1
Method: 300.0 - Anions, Ion Chro						_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680		25.0		mg/Kg			11/06/21 06:01	5

Client Sample ID: BH-2 (6)
Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				11/01/21 11:05	11/03/21 01:08	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-2

Released to Imaging: 9/1/2023 3:11:42 PM

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Matrix: Solid

Lab Sample ID: 890-1502-2

Lab Sample ID: 890-1502-3

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-2 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B	Volatile Ore	ranic Com	nounds (C	C	(Continued)	
WELLIOU. OUZ ID	- voiatile Org	Janic Com	poulius (C	3C) ((Continueu)	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	11/01/21 11:05	11/03/21 01:08	1

ı				
ı	Method:	Total RTFX	: - Total BTEX	Calculation
ı	mictilou.	TOTAL DIE	- IOLAI DIEA	Oulculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg		_	11/08/21 17:11	1

П	Method: 8015 NM - Diese	Donge Organice /	DBO) (CC)
П	i Methou, ou la MM - Diese	Range Organics (וטטו וטאט

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/05/21 13:50	1

Method: 8015B NM - Diese	I Range Organics (D	RO) (GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 12:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 12:43	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119	70 - 130	11/02/21 11:44	11/03/21 12:43	1
o-Terphenyl	131 S1+	70 - 130	11/02/21 11:44	11/03/21 12:43	1

Method: 300	0.0 - Anions,	Ion Chroma	tography - 🤄	Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	FIEDO	ared	Analyzed	Dil Fac
Chloride	235		5.04		mg/Kg		· ·		11/06/21 06:09	1

Client Sample ID: BH-3 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B -	Volatile Organ	ic Compounds	s (GC)
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motification of ga	ino compoundo ((33)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				11/01/21 11:05	11/03/21 01:28	1
1,4-Difluorobenzene (Surr)	70		70 - 130				11/01/21 11:05	11/03/21 01:28	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/08/21 17:11	1

Analyte	•	•	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0	m	g/Kg		-	11/05/21 13:50	1

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Lab Sample ID: 890-1502-3

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-3 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 13:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 13:03	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				11/02/21 11:44	11/03/21 13:03	1
o-Terphenyl	117		70 - 130				11/02/21 11:44	11/03/21 13:03	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	IXL.	IVIDE	Oilit		ricparca	Allalyzea	D uo

Client Sample ID: BH-4 (6)

Date Collected: 10/27/21 00:00

Matrix: Solid

Date Received: 10/29/21 12:45

Occupate Develop 0

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/01/21 11:05	11/03/21 01:49	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130				11/01/21 11:05	11/03/21 01:49	1
Method: 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			11/08/21 17:11	1
•									•
Method: 8015 NM - Diesel Range	Organics (DR)	O) (GC)							
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U				<u>D</u>	Prepared Prepared		1
Analyte	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			11/05/21 13:50	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <50.0 e Organics (D Result	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg		Prepared	11/05/21 13:50 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 e Organics (D Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	11/05/21 13:50 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 11:44 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 13:23 11/03/21 13:23	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <pre></pre> <pre></pre>	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 13:23	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 11:44 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 13:23 11/03/21 13:23	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44	Analyzed 11/03/21 13:23 11/03/21 13:23 11/03/21 13:23	1 Dil Fac 1 1

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Matrix: Solid

Dil Fac

Lab Sample ID: 890-1502-4

Analyzed

Analyzed

Job ID: 890-1502-1 SDG: 212C-MD-02230

D

Prepared

Prepared

Client Sample ID: BH-4 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Analyte

Analyte

(GRO)-C6-C10

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Sample Depth: 6 Method: 300.0 - Anions, Ion Chromatography - Soluble

RL

MDL Unit

MDL Unit

5.05 11/08/21 09:05 Chloride 48.9 mg/Kg Client Sample ID: BH-5 (6) Lab Sample ID: 890-1502-5

Result Qualifier

Result Qualifier

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 02:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 02:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 02:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 11:05	11/03/21 02:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 02:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 11:05	11/03/21 02:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				11/01/21 11:05	11/03/21 02:09	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/01/21 11:05	11/03/21 02:09	1

l	Total BTEX	<0.00403	U	0.00403		mg/Kg			11/08/21 17:11	1
	Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	51.5		49.8		mg/Kg			11/05/21 13:50	1
	Method: 8015B NM - Diesel Rai	nge Organics (DI	RO) (GC)							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 13:43	1

RL

Diesel Range Organics (Over C10-C28)	51.5	49.8	mg/Kg	11/02/21 11:44	11/03/21 13:43	1
OII Range Organics (Over C28-C36)	<49.8 U	49.8	mg/Kg	11/02/21 11:44	11/03/21 13:43	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	104	70 - 130		11/02/21 11:44	11/03/21 13:43	1
o-Terphenyl	117	70 - 130		11/02/21 11:44	11/03/21 13:43	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		4.97		mg/Kg			11/07/21 05:30	1

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Dil Fac

Lab Sample ID: 890-1502-6

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-6 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 02:29	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 02:29	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 02:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 02:29	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 02:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				11/01/21 11:05	11/03/21 02:29	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 11:05	11/03/21 02:29	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Ran									•
Metrica, ou lab MM - Diesel Kari	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/02/21 11:44	Analyzed 11/03/21 14:03	Dil Fac
Analyte	Result	Qualifier U		MDL		<u>D</u>	<u>.</u>		1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	11/02/21 11:44	11/03/21 14:03	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U U	50.0	MDL	mg/Kg	<u> </u>	11/02/21 11:44	11/03/21 14:03 11/03/21 14:03	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	11/02/21 11:44 11/02/21 11:44 11/02/21 11:44	11/03/21 14:03 11/03/21 14:03 11/03/21 14:03	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared	11/03/21 14:03 11/03/21 14:03 11/03/21 14:03 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared 11/02/21 11:44	11/03/21 14:03 11/03/21 14:03 11/03/21 14:03 Analyzed 11/03/21 14:03	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	50.0 50.0 50.0 Limits 70 - 130		mg/Kg	D	11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared 11/02/21 11:44	11/03/21 14:03 11/03/21 14:03 11/03/21 14:03 Analyzed 11/03/21 14:03	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: BH-7 (6)
Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 02:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 02:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 02:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 11:05	11/03/21 02:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 02:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 11:05	11/03/21 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/01/21 11:05	11/03/21 02:50	1

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Lab Sample ID: 890-1502-7

Matrix: Solid

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11/10/2026

Lab Sample ID: 890-1502-7

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-7 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
modification totaling organic compa	Julius (33)	(Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	97	70 - 130	11/01/21 11:05	11/03/21 02:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	[כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			_	11/08/21 17:11	1

ı					
ı	Method: 8015 NM - Γ	ligeal Range (Irganice	(DRO) (G	C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1

Method: 8015B NM - Dies	el Range Organics	(DRO)	(GC)
Michiga, of IOD Min - Dica	or italigo organios	(DIXO)	100

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 14:23	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 14:23	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surroyate	70Necovery	Quanner	Lillits		rrepareu	Allalyzeu	DII Fac
1-Chlorooctane	103		70 - 130	_	11/02/21 11:44	11/03/21 14:23	1
o-Terphenyl	115		70 - 130		11/02/21 11:44	11/03/21 14:23	1
_							

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	546	5.00	mg/K	9		11/07/21 05:59	1

Client Sample ID: BH-8 (6)

Date Collected: 10/27/21 00:00

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

Motifica. Coz ID Volutilo Orga	ino compoundo ((33)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 11:05	11/03/21 03:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 11:05	11/03/21 03:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130				11/01/21 11:05	11/03/21 03:10	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				11/01/21 11:05	11/03/21 03:10	1

Mothod:	Total RT	EY Tota	I DTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402		ma/Ka		·	11/08/21 17:11	1

	Method: 8015 NM -	- Diesel Range	Organics	(DRO)	(GC)
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Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/05/21 13:50	1

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Lab Sample ID: 890-1502-8

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-8 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 14:43	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 14:43	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/02/21 11:44	11/03/21 14:43	1
o-Terphenyl	117		70 - 130				11/02/21 11:44	11/03/21 14:43	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	1990	-	24.9		mg/Kg		-	11/07/21 06:07	5

Client Sample ID: BH-9 (6) Lab Sample ID: 890-1502-9 Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 03:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 03:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 03:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 03:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 03:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 03:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				11/01/21 11:05	11/03/21 03:31	1
1,4-Difluorobenzene (Surr)	93		70 - 130				11/01/21 11:05	11/03/21 03:31	1
Method: 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			11/08/21 17:11	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		11/02/21 11:44	11/03/21 15:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 15:03	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				11/02/21 11:44	11/03/21 15:03	1
o-Terphenyl	122		70 ₋ 130				11/02/21 11:44	11/03/21 15:03	1

Lab Sample ID: 890-1502-9

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-9 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1980		25.0		mg/Kg			11/07/21 06:14	5	

Lab Sample ID: 890-1502-10 Client Sample ID: BH-10 (6) Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 11:05	11/03/21 03:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 11:05	11/03/21 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				11/01/21 11:05	11/03/21 03:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130				11/01/21 11:05	11/03/21 03:51	1
Method: 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			11/08/21 17:11	1
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		11/02/21 11:44	11/03/21 15:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 15:23	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				11/02/21 11:44	11/03/21 15:23	1
o-Terphenyl	118		70 - 130				11/02/21 11:44	11/03/21 15:23	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Released to Imaging: 9/1/2023 3:11:42 PM

Lab Sample ID: 890-1502-11

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-11 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:13	
Toluene	< 0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:13	•
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 05:13	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:13	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 05:13	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	112		70 - 130				11/01/21 11:05	11/03/21 05:13	
1,4-Difluorobenzene (Surr)	76		70 - 130				11/01/21 11:05	11/03/21 05:13	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/08/21 17:11	-
Analyte	Pocult	Ouglifien							
j to	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	<49.9		49.9	MDL	mg/Kg	D	Prepared	Analyzed 11/05/21 13:50	
Total TPH	<49.9	U		MDL		<u>D</u>	Prepared		
Total TPH	<49.9 ge Organics (D	U				<u>D</u> 	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	<49.9 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg	=	<u> </u>	11/05/21 13:50	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ge Organics (D Result	RO) (GC) Qualifier U	49.9		mg/Kg	=	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10	qe Organics (D) Result <49.9	U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 16:02	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	49.9 ge Organics (D) Result <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 11:44 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 16:02 11/03/21 16:02	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	49.9 ge Organics (D) Result <49.9 <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44	Analyzed 11/03/21 16:02 11/03/21 16:02 11/03/21 16:02	Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared	Analyzed 11/03/21 16:02 11/03/21 16:02 11/03/21 16:02 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 109 123	U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 16:02 11/03/21 16:02 11/03/21 16:02 Analyzed 11/03/21 16:02	Dil Fac
Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 109 123 **comatography -	U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 16:02 11/03/21 16:02 11/03/21 16:02 Analyzed 11/03/21 16:02	Dil Fac

Client Sample ID: BH-12 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 05:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 05:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 05:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 05:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 05:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 05:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				11/01/21 11:05	11/03/21 05:34	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-12

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11/10/2021

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Lab Sample ID: 890-1502-12

Lab Sample ID: 890-1502-13

Matrix: Solid

Client Sample ID: BH-12 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B - Volatile Organic Compounds	(GC)	(Continued)	
Michiga, 002 1B - Volatile Organic Compounds	1001	(Oditiliaca)	

Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	11/01/21 11:05	11/03/21 05:34	1

Method: 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			11/08/21 17:11	1

Method: 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			11/05/21 13:50	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:22	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:22	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzea	DII Fac
1-Chlorooctane	104	70 - 130	11/02/21 11:4	11/03/21 16:22	1
o-Terphenyl	112	70 - 130	11/02/21 11:4	4 11/03/21 16:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Chloride	1170		4.95		mg/Kg			11/07/21 06:51	1

Client Sample ID: BH-13 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B -	Volatile Organic	c Compounds (GC)

Michiga ouz ib - Volatile Orga	inc compounds	(30)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 05:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 05:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				11/01/21 11:05	11/03/21 05:54	1
1,4-Difluorobenzene (Surr)	96		70 - 130				11/01/21 11:05	11/03/21 05:54	1

Method: Total BTEX - Total BTEX Calculation

Released to Imaging: 9/1/2023 3:11:42 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		ma/Ka			11/09/21 10:40	1

Method: 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			11/05/21 13:50	1

Lab Sample ID: 890-1502-13

Lab Sample ID: 890-1502-14

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-13 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:42	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:42	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				11/02/21 11:44	11/03/21 16:42	1
o-Terphenyl	116		70 - 130				11/02/21 11:44	11/03/21 16:42	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-14 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 11:05	11/03/21 06:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 11:05	11/03/21 06:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				11/01/21 11:05	11/03/21 06:15	1
1,4-Difluorobenzene (Surr)	95		70 - 130				11/01/21 11:05	11/03/21 06:15	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/02/21 11:44	11/03/21 17:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 17:02	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				11/02/21 11:44	11/03/21 17:02	1
o-Terphenyl	113		70 ₋ 130				11/02/21 11:44	11/03/21 17:02	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-14 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Lab Sample ID: 890-1502-14

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	4450		24.9		mg/Kg			11/07/21 07:06	5	

Client Sample ID: BH-15 (6) Lab Sample ID: 890-1502-15 **Matrix: Solid**

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

C10-C28)

OII Range Organics (Over C28-C36)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 06:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 06:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				11/01/21 11:05	11/03/21 06:35	1
1,4-Difluorobenzene (Surr)	98		70 - 130				11/01/21 11:05	11/03/21 06:35	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Ran	ige Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 17:22	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 17:22	1

Surrogate	%Recovery C	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	11/02/21 11:44	11/03/21 17:22	1
o-Terphenyl	123		70 - 130	11/02/21 11:44	11/03/21 17:22	1

50.0

mg/Kg

11/02/21 11:44

<50.0 U

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	4220	F1	25.0		mg/Kg			11/07/21 07:13	5

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11/03/21 17:22

Lab Sample ID: 890-1502-16

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-16 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 06:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 06:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 06:55	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 11:05	11/03/21 06:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 06:55	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 11:05	11/03/21 06:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				11/01/21 11:05	11/03/21 06:55	1
1,4-Difluorobenzene (Surr)	82		70 - 130				11/01/21 11:05	11/03/21 06:55	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/02/21 11:44	11/03/21 17:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 17:42	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/02/21 11:44	11/03/21 17:42	1
o-Terphenyl	113		70 - 130				11/02/21 11:44	11/03/21 17:42	1
Method: 300.0 - Anions, Ion Chro									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
,	3560		25.1		mg/Kg			11/07/21 07:35	5

Client Sample ID: BH-17 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 07:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 07:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 07:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 07:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 07:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 07:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/01/21 11:05	11/03/21 07:16	1

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Lab Sample ID: 890-1502-17

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Matrix: Solid

Lab Sample ID: 890-1502-17

Lab Sample ID: 890-1502-18

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-17 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
Method. 002 1D - Volatile Organic Compounds	(OO) (Oolillillided)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	11/01/21 11:05	11/03/21 07:16	1

ı				
ı	Method:	Total RTFX	: - Total BTEX	Calculation
ı	mictilou.	TOTAL DIE	- IOLAI DIEA	Oulculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1

П			
	Method: 8015 NM - Diesel Range Organics (DRO) (CC	
ı	Welliou. 00 13 NW - Diesel Kalige Organics (DRO)	901	

Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1

Method: 8015B 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		11/02/21 11:44	11/03/21 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:03	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
1-Chlorooctane	102		70 - 130	11/02/21 11:44	11/03/21 18:03	1
o-Terphenyl	113		70 - 130	11/02/21 11:44	11/03/21 18:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL		Jnit D	Prepared	Analyzed	Dil Fac
Chloride	3350	25.3	m	ng/Kg		11/07/21 07:43	5

Client Sample ID: BH-18 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 07:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 07:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 07:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 11:05	11/03/21 07:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 07:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 11:05	11/03/21 07:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				11/01/21 11:05	11/03/21 07:36	1
1,4-Difluorobenzene (Surr)	98		70 ₋ 130				11/01/21 11:05	11/03/21 07:36	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			11/05/21 13:50	1

Lab Sample ID: 890-1502-18

Lab Sample ID: 890-1502-19

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-18 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:22	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:22	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/02/21 11:44	11/03/21 18:22	1
o-Terphenyl	107		70 - 130				11/02/21 11:44	11/03/21 18:22	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2390		24.9		mg/Kg			11/07/21 08:05	5

Client Sample ID: BH-19 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 07:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 07:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 07:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 07:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 07:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 07:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				11/01/21 11:05	11/03/21 07:57	1
1,4-Difluorobenzene (Surr)	81		70 - 130				11/01/21 11:05	11/03/21 07:57	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		11/02/21 11:44	11/03/21 18:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:42	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				11/02/21 11:44	11/03/21 18:42	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-19 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Lab Sample ID: 890-1502-19

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2060		24.8		mg/Kg			11/07/21 08:13	5

Client Sample ID: BH-20 (6) Lab Sample ID: 890-1502-20 **Matrix: Solid**

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Method: Total BTEX - Total BTEX Calculation

Sample Depth: 6

Analyte

Total BTEX

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 08:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 08:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 08:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 08:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 08:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 08:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 11:05	11/03/21 08:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130				11/01/21 11:05	11/03/21 08:17	1

Method: 8015 NM - Diesel Range Or	nanics (DR	O) (GC)			0 0				
Analyte Total TPH	-	Qualifier	RL 49.8	MDL	Unit mg/Kg	D	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Method: 8015B NM - Diesel Range C	rganics (D	RO) (GC)							

0.00401

MDL Unit

mg/Kg

Prepared

Analyzed

11/09/21 10:40

Dil Fac

Result Qualifier

<0.00401 U

organios (Bi	(00)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 19:03	1
<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 19:03	1
<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 19:03	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
9	S1-	70 - 130				11/02/21 11:44	11/03/21 19:03	1
10	S1-	70 - 130				11/02/21 11:44	11/03/21 19:03	1
	Result <49.8 <49.8 <49.8 <49.8	Result Qualifier	Result Qualifier RL <49.8	Result Qualifier RL MDL <49.8	Result Qualifier RL MDL Unit <49.8	Result Qualifier RL MDL Unit D <49.8	Result Qualifier RL MDL Unit D Prepared <49.8	<49.8 U

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	449		4.95		mg/Kg			11/07/21 08:20	1

Lab Sample ID: 890-1502-21

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-21 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1 F2	0.00202		mg/Kg		11/01/21 12:05	11/02/21 18:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 18:15	1
Ethylbenzene	<0.00202	U F1	0.00202		mg/Kg		11/01/21 12:05	11/02/21 18:15	1
m-Xylene & p-Xylene	<0.00403	U F1	0.00403		mg/Kg		11/01/21 12:05	11/02/21 18:15	1
o-Xylene	<0.00202	U F1	0.00202		mg/Kg		11/01/21 12:05	11/02/21 18:15	1
Xylenes, Total	<0.00403	U F1	0.00403		mg/Kg		11/01/21 12:05	11/02/21 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/01/21 12:05	11/02/21 18:15	1
1,4-Difluorobenzene (Surr)	72		70 - 130				11/01/21 12:05	11/02/21 18:15	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/02/21 14:45	11/03/21 11:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 11:27	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 11:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				11/02/21 14:45	11/03/21 11:27	1
o-Terphenyl	123		70 - 130				11/02/21 14:45	11/03/21 11:27	1
Method: 300.0 - Anions, Ion Chro									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	169		5.00		mg/Kg			11/07/21 08:27	1

Client Sample ID: BH-22 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 18:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 18:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 18:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:05	11/02/21 18:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 18:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:05	11/02/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				11/01/21 12:05	11/02/21 18:35	

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Lab Sample ID: 890-1502-22

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Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-22 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Lab Sample ID: 890-1502-22

Lab Sample ID: 890-1502-23

Matrix: Solid

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Qualifier %Recovery Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 1,4-Difluorobenzene (Surr) 98 11/01/21 12:05 11/02/21 18:35

Method: Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00398 0.00398 11/09/21 10:40 mg/Kg

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 49.9 mg/Kg 11/05/21 13:50

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <49.9 U mg/Kg Gasoline Range Organics 49.9 11/02/21 14:45 11/03/21 12:32 (GRO)-C6-C10 <49.9 U 49.9 11/02/21 14:45 11/03/21 12:32 Diesel Range Organics (Over mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 11/02/21 14:45 11/03/21 12:32 Dil Fac

Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 103 70 - 130 11/02/21 14:45 11/03/21 12:32 11/03/21 12:32 117 70 - 130 11/02/21 14:45 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.96 11/07/21 08:35 Chloride 1220 mg/Kg

Client Sample ID: BH-23 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 11/01/21 12:05 11/02/21 18:56 Toluene <0.00200 U 0.00200 11/01/21 12:05 11/02/21 18:56 mg/Kg Ethylbenzene <0.00200 U 0.00200 11/01/21 12:05 11/02/21 18:56 mg/Kg 11/02/21 18:56 m-Xylene & p-Xylene <0.00401 U 0.00401 11/01/21 12:05 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 11/01/21 12:05 11/02/21 18:56 Xylenes, Total <0.00401 U 0.00401 mg/Kg 11/01/21 12:05 11/02/21 18:56 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed

116 70 - 130 4-Bromofluorobenzene (Surr) 11/01/21 12:05 11/02/21 18:56 1,4-Difluorobenzene (Surr) 100 70 - 130 11/01/21 12:05 11/02/21 18:56

Method: Total BTEX - Total BTEX Calculation

Analyte RL MDL D Result Qualifier Unit Prepared Analyzed Dil Fac Total BTEX <0.00401 0.00401 11/09/21 10:40 mg/Kg

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <50.0 U Total TPH 50.0 11/05/21 13:50 mg/Kg

Lab Sample ID: 890-1502-23

Lab Sample ID: 890-1502-24

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-23 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/02/21 14:45	11/03/21 12:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 12:53	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				11/02/21 14:45	11/03/21 12:53	1
o-Terphenyl	106		70 - 130				11/02/21 14:45	11/03/21 12:53	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		5.05		mg/Kg			11/07/21 08:42	1

Client Sample ID: BH-24 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 19:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 19:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 19:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/02/21 19:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 19:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/02/21 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				11/01/21 12:05	11/02/21 19:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130				11/01/21 12:05	11/02/21 19:16	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		11/02/21 14:45	11/03/21 13:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 13:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/02/21 14:45	11/03/21 13:14	1
o-Terphenyl	123		70 ₋ 130				11/02/21 14:45	11/03/21 13:14	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Lab Sample ID: 890-1502-24

Matrix: Solid

Client Sample ID: BH-24 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

	Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	107		4.97		mg/Kg			11/07/21 08:49	1

Client Sample ID: BH-25 (15) Lab Sample ID: 890-1502-25 **Matrix: Solid**

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Method: Total BTEX - Total BTEX Calculation

Sample Depth: 15

Analyte

(GRO)-C6-C10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 19:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 19:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 19:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/02/21 19:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 19:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/02/21 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				11/01/21 12:05	11/02/21 19:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/01/21 12:05	11/02/21 19:37	1

Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 13:36	1

MDL Unit

Prepared

Analyzed

Result Qualifier

Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg	11/02/21 14:45	11/03/21 13:36	1
C10-C28) Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	11/02/21 14:45	11/03/21 13:36	1
,							
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130		11/02/21 14:45	11/03/21 13:36	1
I and the second	122		70 - 130		11/02/21 14:45	11/03/21 13:36	

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	447	F1	4.99		mg/Kg			11/07/21 09:49	1

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Dil Fac

Lab Sample ID: 890-1502-26

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-26 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 19:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 19:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 19:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/01/21 12:05	11/02/21 19:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 19:57	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/01/21 12:05	11/02/21 19:57	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	123		70 - 130				11/01/21 12:05	11/02/21 19:57	
1,4-Difluorobenzene (Surr)	107		70 - 130				11/01/21 12:05	11/02/21 19:57	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/09/21 10:40	
Analyte Total TPH		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	•
- Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	Result <50.0		RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/02/21 14:45	Analyzed 11/03/21 13:57	
Gasoline Range Organics		U		MDL		<u>D</u>			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	11/02/21 14:45	11/03/21 13:57	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0	U U	50.0	MDL	mg/Kg	<u>D</u>	11/02/21 14:45	11/03/21 13:57 11/03/21 13:57	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0 <50.0	U U	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45	11/03/21 13:57 11/03/21 13:57 11/03/21 13:57	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 %Recovery	U U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared	11/03/21 13:57 11/03/21 13:57 11/03/21 13:57 Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 <50.0 <50.0 %Recovery 102 119	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	11/03/21 13:57 11/03/21 13:57 11/03/21 13:57 Analyzed 11/03/21 13:57	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 <50.0 <50.0 %Recovery 102 119 omatography -	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	11/03/21 13:57 11/03/21 13:57 11/03/21 13:57 Analyzed 11/03/21 13:57	Dil Fac

Client Sample ID: BH-27 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 20:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 20:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 20:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/02/21 20:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 20:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/02/21 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:05	11/02/21 20:17	1

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Lab Sample ID: 890-1502-27

Lab Sample ID: 890-1502-27

Lab Sample ID: 890-1502-28

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-27 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile O	rganic Compou	nds (GC)	(Continued)
Michiga: OUL 1B Volume C	i gaino compou	1145 (55)	(Goillinaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85	70 - 130	11/01/21 12:05	11/02/21 20:17	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/09/21 10:40	1

Method: 8015 NM	l - Diesel Range O	Prognics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg		_	11/05/21 13:50	1

Method: 8015B	NM - Diesel	Range Ord	anics	(DRO)	(GC)
motilioa. oo lob	THE DIGGGE	Trainge Oit	garnos	(5.10)	100)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 14:18	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.8	ш	49.8		mg/Kg		11/02/21 14:45	11/03/21 14:18	1
C10-C28)	140.0	J	40.0		mg/rtg		11/02/21 14.40	11/00/21 14:10	
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	76Recovery Qualifier	LIIIIII		Frepareu	Allalyzeu	DII Fac
1-Chlorooctane	105	70 - 130	_	11/02/21 14:45	11/03/21 14:18	1
o-Terphenyl	120	70 - 130		11/02/21 14:45	11/03/21 14:18	1
_						

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	372		4.98		mg/Kg			11/07/21 10:18	1

Client Sample ID: BH-28 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	• voiatile Organic	Compounds (GC)

motification could be sufficient to	, , , , , , , , , , , , , , , , , , , ,	()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 20:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 20:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 20:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:05	11/02/21 20:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 20:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:05	11/02/21 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				11/01/21 12:05	11/02/21 20:38	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 12:05	11/02/21 20:38	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0		mg/Kg			11/05/21 13:50	1

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Lab Sample ID: 890-1502-28

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-28 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 14:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 14:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/02/21 14:45	11/03/21 14:39	1
o-Terphenyl	120		70 - 130				11/02/21 14:45	11/03/21 14:39	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-29 (15) Lab Sample ID: 890-1502-29 Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 20:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 20:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 20:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 12:05	11/02/21 20:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 20:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 12:05	11/02/21 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/01/21 12:05	11/02/21 20:58	1
1,4-Difluorobenzene (Surr)	91		70 - 130				11/01/21 12:05	11/02/21 20:58	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		11/02/21 14:45	11/03/21 15:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 15:00	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/02/21 14:45	11/03/21 15:00	1

Job ID: 890-1502-1

Lab Sample ID: 890-1502-29

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-29 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		4.97		mg/Kg			11/07/21 10:33	1

Lab Sample ID: 890-1502-30 Client Sample ID: BH-30 (15) Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 21:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 21:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 21:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/02/21 21:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 21:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/02/21 21:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130				11/01/21 12:05	11/02/21 21:19	1
1,4-Difluorobenzene (Surr)	70		70 - 130				11/01/21 12:05	11/02/21 21:19	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	•								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 15:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 15:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 15:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				11/02/21 14:45	11/03/21 15:21	1
o-Terphenyl	136	S1+	70 - 130				11/02/21 14:45	11/03/21 15:21	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Released to Imaging: 9/1/2023 3:11:42 PM

Lab Sample ID: 890-1502-31

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-31 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 23:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 23:07	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 23:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:05	11/02/21 23:07	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 23:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:05	11/02/21 23:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				11/01/21 12:05	11/02/21 23:07	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/01/21 12:05	11/02/21 23:07	1
- Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/02/21 14:45	11/03/21 16:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				11/02/21 14:45	11/03/21 16:03	1
o-Terphenyl	123		70 - 130				11/02/21 14:45	11/03/21 16:03	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
•									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-32 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/02/21 23:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/02/21 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				11/01/21 12:05	11/02/21 23:28	

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Lab Sample ID: 890-1502-32

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14/40/2024

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-32 (15) Lab Sample ID: 890-1502-32

Date Collected: 10/27/21 00:00 Matrix: Solid Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - \	Volatile Organic	Compounds ((GC)	(Continued)	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	11/01/21 12:05	11/02/21 23:28	1

Method: 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			11/09/21 10:40	1

Method: 8015 NM - Diesel Range Organic	s (DRO)	(GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1

Method: 8015B 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		11/02/21 14:45	11/03/21 16:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:24	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123	70 - 130	11/02/21 14:4	11/03/21 16:24	1
o-Terphenyl	150 S1+	70 - 130	11/02/21 14:4	5 11/03/21 16:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	833		5.00		mg/Kg				11/07/21 11:10	1

Client Sample ID: BH-33 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B -	Malatile O		
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:05	11/02/21 23:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:05	11/02/21 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				11/01/21 12:05	11/02/21 23:48	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/01/21 12:05	11/02/21 23:48	1

Mothod:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		ma/Ka			11/09/21 10:40	1

	Method: 8015 NM -	- Diesel Range	Organics	(DRO)	(GC)
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			11/05/21 13:50	1

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Lab Sample ID: 890-1502-33

Lab Sample ID: 890-1502-33

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-33 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:46	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:46	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				11/02/21 14:45	11/03/21 16:46	1
o-Terphenyl	133	S1+	70 - 130				11/02/21 14:45	11/03/21 16:46	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			5.01		mg/Kg			11/07/21 11:18	

Client Sample ID: BH-34 (15) Lab Sample ID: 890-1502-34 **Matrix: Solid**

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 00:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/01/21 12:05	11/03/21 00:09	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/01/21 12:05	11/03/21 00:09	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		11/02/21 14:45	11/03/21 17:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 17:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				11/02/21 14:45	11/03/21 17:07	1
o-Terphenyl	150	S1+	70 ₋ 130				11/02/21 14:45	11/03/21 17:07	1

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11/10/2021

Lab Sample ID: 890-1502-34

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-34 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		4.98		mg/Kg			11/07/21 11:25	1

Client Sample ID: BH-35 (15) Lab Sample ID: 890-1502-35 Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Method: 8021B - Volatile Organic	Compounds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 00:29	
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 00:29	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 00:29	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/03/21 00:29	
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 00:29	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/03/21 00:29	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	127		70 - 130				11/01/21 12:05	11/03/21 00:29	
1,4-Difluorobenzene (Surr)	110		70 - 130				11/01/21 12:05	11/03/21 00:29	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	·	mg/Kg			11/09/21 10:40	
Method: 8015 NM - Diesel Range	Organics (DR)	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	-
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 17:28	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 17:28	,
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 17:28	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	107		70 - 130				11/02/21 14:45	11/03/21 17:28	
o-Terphenyl	132	S1+	70 - 130				11/02/21 14:45	11/03/21 17:28	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1502-36

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-36 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 00:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/01/21 12:05	11/03/21 00:49	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/01/21 12:05	11/03/21 00:49	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	1
Analyte Total TPH		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	П							
		J	49.8		mg/Kg			11/05/21 13:50	1
: Method: 8015B NM - Diesel Ran	ge Organics (D		49.8		mg/Kg			11/05/21 13:50	1
	• • •		49.8 RL	MDL		D	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Analyte Gasoline Range Organics	• • •	RO) (GC) Qualifier		MDL		<u>D</u> _	Prepared 11/02/21 14:45		
Analyte Gasoline Range Organics	Result	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8	RO) (GC) Qualifier U	RL 49.8	MDL	Unit mg/Kg	<u>D</u>	11/02/21 14:45	Analyzed 11/03/21 17:49	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	RO) (GC) Qualifier U	RL 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/02/21 14:45	Analyzed 11/03/21 17:49 11/03/21 17:49	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8 <49.8	RO) (GC) Qualifier U	RL 49.8 49.8 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45	Analyzed 11/03/21 17:49 11/03/21 17:49 11/03/21 17:49	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	RO) (GC) Qualifier U	## ## ## ## ## ## ## ## ## ## ## ## ##	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared	Analyzed 11/03/21 17:49 11/03/21 17:49 11/03/21 17:49 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	RO) (GC) Qualifier U U Qualifier	RL 49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	Analyzed 11/03/21 17:49 11/03/21 17:49 11/03/21 17:49 Analyzed 11/03/21 17:49	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	RO) (GC) Qualifier U U Qualifier	RL 49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	Analyzed 11/03/21 17:49 11/03/21 17:49 11/03/21 17:49 Analyzed 11/03/21 17:49	Dil Face 1 1 1 Dil Face

Client Sample ID: BH-37 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 01:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 01:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 01:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 01:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 01:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:05	11/03/21 01:10	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-37

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID: 890-1502-37

Lab Sample ID: 890-1502-38

Matrix: Solid

Client Sample ID: BH-37 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 8021B	- Volatila	Organic	Compounde	(GC) (Con	tinued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	11/01/21 12:05	11/03/21 01:10	

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg		_	11/09/21 10:40	1

н				
П	Method: 8015 NM - Diesel	Dange Organice		
П	- Metriou, ou la Min - Diesei	Range Organics	יו נטאטו	961

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/05/21 13:50	1

		_			
Method: 8015B	NM - Diesel	Range Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOL	itunge or	garnoo (D. (U)	(–

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:11	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	11/02/21 14:	:45 11/03/21 18:11	1
o-Terphenyl	112		70 - 130	11/02/21 14:	:45 11/03/21 18:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifie		MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4260	24.8	mg/Kg			11/07/21 12:02	5

Client Sample ID: BH-38 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

wethout ouz 16 - volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				11/01/21 12:05	11/03/21 01:30	1
1,4-Difluorobenzene (Surr)	118		70 - 130				11/01/21 12:05	11/03/21 01:30	1

Method:	Total RTF)	(- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		ma/Ka			11/09/21 10:40	1

Method. 0013 MM - Dieser Kange Organics (DRO) (GC)	Method: 8015 NM - Die	esel Range C	Organics (DRO)	(GC)
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Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	87.2		49.9	mg/Kg			11/05/21 13:50	1

Matrix: Solid

Lab Sample ID: 890-1502-38

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-38 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:32	1
Diesel Range Organics (Over C10-C28)	87.2		49.9		mg/Kg		11/02/21 14:45	11/03/21 18:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				11/02/21 14:45	11/03/21 18:32	1
o-Terphenyl	117		70 - 130				11/02/21 14:45	11/03/21 18:32	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-39 (15) Lab Sample ID: 890-1502-39

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:05	11/03/21 01:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:05	11/03/21 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				11/01/21 12:05	11/03/21 01:51	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/01/21 12:05	11/03/21 01:51	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/02/21 14:45	11/03/21 18:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:53	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/02/21 14:45	11/03/21 18:53	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-39 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Lab Sample ID: 890-1502-39

Matrix: Solid

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3300		25.0		mg/Kg			11/07/21 12:32	5

Client Sample ID: BH-40 (15) Lab Sample ID: 890-1502-40 **Matrix: Solid**

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte

(GRO)-C6-C10

Diesel Range Organics (Over

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 02:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 02:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 02:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:05	11/03/21 02:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 02:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:05	11/03/21 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:05	11/03/21 02:11	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/01/21 12:05	11/03/21 02:11	1

Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 19:15	1

MDL Unit

mg/Kg

Prepared

11/02/21 14:45

Analyzed

11/03/21 19:15

Dil Fac

Result Qualifier

<49.8 U

C10-C28) OII Range Organics (Over C28-C36)	<49.8 U	49.8	mg/Kg	11/02/21 14:45	11/03/21 19:15	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	91	70 - 130		11/02/21 14:45	11/03/21 19:15	1
o-Terphenyl	110	70 ₋ 130		11/02/21 14:45	11/03/21 19:15	1

49.8

Method: 300.0 - Anions, Ion Chroma	tography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1190		5.04		mg/Kg			11/07/21 12:39	1

Lab Sample ID: 890-1502-41

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-41 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:19	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:19	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:19	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		11/01/21 12:11	11/04/21 02:19	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:19	1
Xylenes, Total	<0.00399	U F2 F1	0.00399		mg/Kg		11/01/21 12:11	11/04/21 02:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				11/01/21 12:11	11/04/21 02:19	1
1,4-Difluorobenzene (Surr)	110		70 - 130				11/01/21 12:11	11/04/21 02:19	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	D0 E
							. ropurou	Allalyzeu	DII Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	
- -			49.9		mg/Kg	=			
: Method: 8015B NM - Diesel Ran	ge Organics (D		49.9 RL	MDL			Prepared		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL			· ·	11/05/21 13:50	1 Dil Fac
- -	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 11:27	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/02/21 16:07 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 11:27 11/03/21 11:27	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/02/21 16:07 11/02/21 16:07	Analyzed 11/03/21 11:27 11/03/21 11:27 11/03/21 11:27	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared	Analyzed 11/03/21 11:27 11/03/21 11:27 11/03/21 11:27 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 96 95	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	Analyzed 11/03/21 11:27 11/03/21 11:27 11/03/21 11:27 Analyzed 11/03/21 11:27	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 96 95 omatography -	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	Analyzed 11/03/21 11:27 11/03/21 11:27 11/03/21 11:27 Analyzed 11/03/21 11:27	Dil Fac

Client Sample ID: BH-42 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 02:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				11/01/21 12:11	11/04/21 02:46	

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-42

Matrix: Solid

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Client Sample ID: BH-42 (15)

Date Collected: 10/27/21 00:00

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID: 890-1502-42

Lab Sample ID: 890-1502-43

Matrix: Solid

Matrix: Solid

Date Received: 10/29/21 12:45 Sample Depth: 15

Method: 8021B - Volatile Organ	ic Compounds (GC) (Continu	ıed)
Surrogate	%Pacovery Qualifier	Limi

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	198	S1+	70 - 130	11/01/21 12:11	11/04/21 02:46	1

Method: 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		_	11/09/21 10:40	1

Method: 8015 NM - Diesel Range Organ	ics (DRO) (GC)
Method: 0010 MM - Dieser Range Organ	ics (bito) (cc)

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total TPH			<49.9	U	49.9		mg/Kg				11/05/21 13:50	1

Method: 8015B NM -	. Niosol Rango (rnanice (DRO) (GC)
Michiga, ou lob Mili	Dicaci italige	Ji gaines (bite	, (00)

Analyte	Result	Qualifier	RL	MDL (Jnit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	r	ng/Kg		11/02/21 16:07	11/03/21 12:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9	r	ng/Kg		11/02/21 16:07	11/03/21 12:32	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9	r	mg/Kg		11/02/21 16:07	11/03/21 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101	70 - 130	11/02/21 16:07	11/03/21 12:32	1
o-Terphenyl	105	70 - 130	11/02/21 16:07	11/03/21 12:32	1

Method: 300.0 - Anions, Ion C	hromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	461		5.00		mg/Kg				11/07/21 12:54	1

Client Sample ID: BH-43 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B -	Malatile O		
I IVIATOOO' XII ZI R .	. VAISTIID I Jr	nanic Lomn	Allings Ital.1

mounda. our ib volutile orga	ino compounds	(33)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 03:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 03:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 03:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:11	11/04/21 03:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 03:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:11	11/04/21 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				11/01/21 12:11	11/04/21 03:14	1
1,4-Difluorobenzene (Surr)	215	S1+	70 - 130				11/01/21 12:11	11/04/21 03:14	1

Method: T	otal RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/09/21 10:40	1

н	Made al. COAF NIM Diaga	D O! (DDO)	1/001
ı	Method: 8015 NM - Diese	Rande Ordanics (DRO)	1 ((=(.)
ı	Michiga. Colo IVIII Dicoc	range Organico (Bra	, , , , , ,

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/05/21 13:50	1

Client Sample ID: BH-43 (15)

Matrix: Solid

Lab Sample ID: 890-1502-43

11/07/21 13:02

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

2440

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 12:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 12:53	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/02/21 16:07	11/03/21 12:53	1
o-Terphenyl	93		70 - 130				11/02/21 16:07	11/03/21 12:53	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-44 (15) Lab Sample ID: 890-1502-44 Matrix: Solid

24.9

mg/Kg

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:11	11/04/21 03:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:11	11/04/21 03:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:11	11/04/21 03:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:11	11/04/21 03:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:11	11/04/21 03:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:11	11/04/21 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/01/21 12:11	11/04/21 03:41	1
1,4-Difluorobenzene (Surr)	211	S1+	70 - 130				11/01/21 12:11	11/04/21 03:41	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		11/02/21 16:07	11/03/21 13:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 13:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				11/02/21 16:07	11/03/21 13:14	1
	116		70 - 130				11/02/21 16:07	11/03/21 13:14	

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-44 (15)

Lab Sample ID: 890-1502-44

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Matrix: Solid

Sample Depth: 15

	Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	465		5.00		mg/Kg			11/07/21 13:09	1

Client Sample ID: BH-45 (15) Lab Sample ID: 890-1502-45

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 04:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				11/01/21 12:11	11/04/21 04:08	1
1,4-Difluorobenzene (Surr)	203	S1+	70 - 130				11/01/21 12:11	11/04/21 04:08	1
Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
· ····································									
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	1
Total BTEX			0.00399		mg/Kg			11/09/21 10:40	1
	Organics (DR		0.00399 RL	MDL	mg/Kg Unit	D	Prepared	11/09/21 10:40 Analyzed	1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Range	Organics (DR	O) (GC) Qualifier		MDL		<u>D</u>	Prepared		
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR Result <49.8	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Total BTEX Method: 8015 NM - Diesel Range Analyte	e Organics (DR Result <49.8	O) (GC) Qualifier	RL		Unit	<u>D</u>	Prepared Prepared	Analyzed	
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	e Organics (DR Result <49.8	O) (GC) Qualifier U RO) (GC) Qualifier	RL		Unit mg/Kg			Analyzed 11/05/21 13:50	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte	e Organics (DR Result <49.8 ge Organics (D Result	O) (GC) Qualifier U RO) (GC) Qualifier	RL		Unit mg/Kg		Prepared	Analyzed 11/05/21 13:50 Analyzed	Dil Fac Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	e Organics (DR Result <49.8 ge Organics (D Result	O) (GC) Qualifier U RO) (GC) Qualifier U	RL		Unit mg/Kg		Prepared	Analyzed 11/05/21 13:50 Analyzed	Dil Fac Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <49.8 ge Organics (D Result <49.8 <49.8	O) (GC) Qualifier U RO) (GC) Qualifier U	RL 49.8 RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 16:07	Analyzed 11/05/21 13:50 Analyzed 11/03/21 13:36 11/03/21 13:36	Dil Fac Dil Fac 1
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result <49.8 ge Organics (D Result <49.8	O) (GC) Qualifier U RO) (GC) Qualifier U	RL		Unit mg/Kg Unit mg/Kg		Prepared 11/02/21 16:07	Analyzed 11/05/21 13:50 Analyzed 11/03/21 13:36	Dil Fac Dil Fac 1
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <49.8 ge Organics (D Result <49.8 <49.8	O) (GC) Qualifier U RO) (GC) Qualifier U U	RL 49.8 RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 16:07	Analyzed 11/05/21 13:50 Analyzed 11/03/21 13:36 11/03/21 13:36	Dil Fac Dil Fac 1
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	e Organics (DR Result <49.8 ge Organics (D Result <49.8 <49.8 <49.8	O) (GC) Qualifier U RO) (GC) Qualifier U U	RL 49.8 RL 49.8 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 16:07 11/02/21 16:07	Analyzed 11/05/21 13:50 Analyzed 11/03/21 13:36 11/03/21 13:36	Dil Fac Dil Fac 1 1 1

Eurofins Xenco, Carlsbad

Analyzed

11/08/21 04:30

RL

4.95

MDL Unit

mg/Kg

D

Prepared

Dil Fac

Analyte

Chloride

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

284 F1

Lab Sample ID: 890-1502-46

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-46 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 04:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				11/01/21 12:11	11/04/21 04:35	1
1,4-Difluorobenzene (Surr)	226	S1+	70 - 130				11/01/21 12:11	11/04/21 04:35	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	1
		O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result <50.0	Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	
Total TPH	<50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	<50.0	Qualifier U				<u>D</u> 	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	=	<u> </u>	11/05/21 13:50	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (D	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg	=	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 13:57	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (Di Result <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 13:57 11/03/21 13:57	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07	Analyzed 11/03/21 13:57 11/03/21 13:57 11/03/21 13:57	Dil Face 1 1 1 Dil Face
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared	Analyzed 11/03/21 13:57 11/03/21 13:57 11/03/21 13:57 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <60.0 *Recovery 106 107	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 13:57 11/03/21 13:57 11/03/21 13:57 Analyzed 11/03/21 13:57	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <70.0 %Recovery 106 107 omatography -	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 13:57 11/03/21 13:57 11/03/21 13:57 Analyzed 11/03/21 13:57	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: BH-47 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 05:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 05:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 05:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 05:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 05:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 05:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				11/01/21 12:11	11/04/21 05:03	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-47

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. .

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

ah Campia ID: 000 4500 4

Client Sample ID: BH-47 (15)
Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-47

Lab Sample ID: 890-1502-48

Matrix: Solid

Date Received: 10/29/21 12:45

Matrix: Solid

Sample Depth: 15

Method: 8021B - Volatile Organ	nic Compounds	(GC)	(Continued)	
mothed collis	no compoundo	, – – ,	(-	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	211	S1+	70 - 130	11/01/21 12:11	11/04/21 05:03	1

Method: 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			11/09/21 10:40	1

Mothod: 2015 NM - Dio	cal Panga Organica	· (DPO) (CC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	ma/Ka			11/05/21 13:50	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 14:18	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 14:18	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Garrogate	7011CCCVC1 y	Quanner	Lillits	rrepared	Analyzea
1-Chlorooctane	98		70 - 130	11/02/21 16:07	11/03/21 14:18
o-Terphenyl	102		70 - 130	11/02/21 16:07	11/03/21 14:18

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result C	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Chloride	122		4.98		mg/Kg			11/08/21 05:00	1

Client Sample ID: BH-48 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021B	Volatile	Organic	Compounds (GC)
MICHIOU. OUZ ID •	voiatile v	Olualiic v	

		()							
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	m	ng/Kg		11/01/21 12:11	11/04/21 05:30	1
Toluene	< 0.00199	U	0.00199	m	ng/Kg		11/01/21 12:11	11/04/21 05:30	1
Ethylbenzene	< 0.00199	U	0.00199	m	ng/Kg		11/01/21 12:11	11/04/21 05:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	m	ng/Kg		11/01/21 12:11	11/04/21 05:30	1
o-Xylene	< 0.00199	U	0.00199	m	ng/Kg		11/01/21 12:11	11/04/21 05:30	1
Xylenes, Total	<0.00398	U	0.00398	m	ng/Kg		11/01/21 12:11	11/04/21 05:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				11/01/21 12:11	11/04/21 05:30	1
1,4-Difluorobenzene (Surr)	220	S1+	70 - 130				11/01/21 12:11	11/04/21 05:30	1

Method:	Total R	TFY - T	ntal RT	FX Calcu	ılation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka			11/09/21 10:40	1

	Method: 8015 NM -	- Diesel Range	Organics	(DRO)	(GC)
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.2	50.0	mg/Kg			11/05/21 13:50	1

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Lab Sample ID: 890-1502-48

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-48 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 14:39	1
Diesel Range Organics (Over C10-C28)	75.2		50.0		mg/Kg		11/02/21 16:07	11/03/21 14:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				11/02/21 16:07	11/03/21 14:39	1
o-Terphenyl	111		70 - 130				11/02/21 16:07	11/03/21 14:39	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-49 (15) Lab Sample ID: 890-1502-49 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 05:57	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 05:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 05:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:11	11/04/21 05:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 05:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:11	11/04/21 05:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				11/01/21 12:11	11/04/21 05:57	1
1,4-Difluorobenzene (Surr)	17	S1-	70 - 130				11/01/21 12:11	11/04/21 05:57	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		11/02/21 16:07	11/03/21 15:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				11/02/21 16:07	11/03/21 15:00	1
o-Terphenyl	106		70 - 130				11/02/21 16:07	11/03/21 15:00	1

Lab Sample ID: 890-1502-49

Client: Tetra Tech, Inc.

Job ID: 890-1502-1
Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-49 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	472		4.95		mg/Kg			11/08/21 05:16	1

Client Sample ID: BH-50 (15)

Date Collected: 10/27/21 00:00

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0214		0.00198		mg/Kg		11/01/21 12:11	11/04/21 06:24	1
Toluene	0.0176		0.00198		mg/Kg		11/01/21 12:11	11/04/21 06:24	1
Ethylbenzene	0.00625		0.00198		mg/Kg		11/01/21 12:11	11/04/21 06:24	1
m-Xylene & p-Xylene	0.0231		0.00396		mg/Kg		11/01/21 12:11	11/04/21 06:24	1
o-Xylene	0.0350		0.00198		mg/Kg		11/01/21 12:11	11/04/21 06:24	1
Xylenes, Total	0.0581		0.00396		mg/Kg		11/01/21 12:11	11/04/21 06:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	11591	S1+	70 - 130				11/01/21 12:11	11/04/21 06:24	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130				11/01/21 12:11	11/04/21 06:24	1
- Method: Total BTEX - Total B1	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.103		0.00396		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9		mg/Kg			11/05/21 13:50	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:21	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:21	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				11/02/21 16:07	11/03/21 15:21	1
	119		70 - 130				11/02/21 16:07	11/03/21 15:21	1

RL

4.99

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

1330

Eurofins Xenco, Carlsbad

Analyzed

11/08/21 05:39

Dil Fac

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Analyte

Chloride

Lab Sample ID: 890-1502-51

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-51 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 08:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 08:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:11	11/04/21 08:10	1
1,4-Difluorobenzene (Surr)	199	S1+	70 - 130				11/01/21 12:11	11/04/21 08:10	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1
Analyte	D 14	O 11.C							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	<49.9		RL 49.9	MDL	mg/Kg	D	Prepared	Analyzed 11/05/21 13:50	
Total TPH	<49.9	U		MDL		<u>D</u>	Prepared		
Total TPH	<49.9 ge Organics (D	U				<u>D</u>	Prepared		1
Total TPH Method: 8015B NM - Diesel Range Analyte	<49.9 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg	=	· ·	11/05/21 13:50	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9 ge Organics (D	RO) (GC) Qualifier U	49.9		mg/Kg	=	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<pre>ge Organics (D) Result </pre>	U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 16:03	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	49.9 ge Organics (Display="2">Result <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 16:03 11/03/21 16:03	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07	Analyzed 11/03/21 16:03 11/03/21 16:03 11/03/21 16:03	Dil Face 1 1 1 Dil Face
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared	Analyzed 11/03/21 16:03 11/03/21 16:03 11/03/21 16:03 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 101 106	U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	Analyzed 11/03/21 16:03 11/03/21 16:03 11/03/21 16:03 Analyzed 11/03/21 16:03	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	49.9 ge Organics (D) Result <49.9 <49.9 %Recovery 101 106 omatography -	U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	Analyzed 11/03/21 16:03 11/03/21 16:03 11/03/21 16:03 Analyzed 11/03/21 16:03	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac

Client Sample ID: BH-52 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 08:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 08:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				11/01/21 12:11	11/04/21 08:36	1

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Lab Sample ID: 890-1502-52

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-52 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Lab Sample ID: 890-1502-52

Lab Sample ID: 890-1502-53

Matrix: Solid

. Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	233	S1+	70 - 130	11/01/21 12:11	11/04/21 08:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	ma/Ka			11/09/21 10:40	1

– Method: 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	ma/Ka			11/05/21 13:50	1

Method: 8015B 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		11/02/21 16:07	11/03/21 16:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	11/02/21 16:07	11/03/21 16:24	1
o-Terphenyl	103		70 - 130	11/02/21 16:07	11/03/21 16:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1410	24.9	mg/Kg			11/08/21 05:54	5

Client Sample ID: BH-53 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

mounda. our ib volutile orga	ino compounds	(33)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/03/21 08:30	11/04/21 11:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/03/21 08:30	11/04/21 11:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/03/21 08:30	11/04/21 11:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/03/21 08:30	11/04/21 11:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/03/21 08:30	11/04/21 11:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/03/21 08:30	11/04/21 11:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				11/03/21 08:30	11/04/21 11:48	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/03/21 08:30	11/04/21 11:48	1

Method:	Total RTF)	(- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		ma/Ka				11/09/21 10:40	1

Method: 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/			11/05/21 13:50	1

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-53 (15) Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-53 Matrix: Solid

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:46	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:46	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				11/02/21 16:07	11/03/21 16:46	1
o-Terphenyl	98		70 - 130				11/02/21 16:07	11/03/21 16:46	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	NL.	IVIDE	Oilit		riepaieu	Allulyzou	Dii i uc

Client Sample ID: BH-54 (15) Lab Sample ID: 890-1502-54

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Matrix: Solid

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 09:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 09:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 09:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 09:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 09:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 09:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				11/01/21 12:11	11/04/21 09:28	1
1,4-Difluorobenzene (Surr)	202	S1+	70 - 130				11/01/21 12:11	11/04/21 09:28	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		11/02/21 16:07	11/03/21 17:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 17:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/02/21 16:07	11/03/21 17:07	1
o-Terphenyl	100		70 ₋ 130				11/02/21 16:07	11/03/21 17:07	1

Client Sample ID: BH-54 (15)

Date Collected: 10/27/21 00:00

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Lab Sample ID: 890-1502-54

Matrix: Solid

Date Received: 10/29/21 12:45 Sample Depth: 15

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL MDL Unit D Prepared Analyzed 5.01 11/08/21 06:09 Chloride **508** mg/Kg

Client Sample ID: BH-55 (15) Lab Sample ID: 890-1502-55

Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 09:54	
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 09:54	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 09:54	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:11	11/04/21 09:54	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 09:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:11	11/04/21 09:54	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	88		70 - 130				11/01/21 12:11	11/04/21 09:54	1
1,4-Difluorobenzene (Surr)	191	S1+	70 - 130				11/01/21 12:11	11/04/21 09:54	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	•		DI	MDI	Unit	D	Drawarad	Amalumad	Dil Fac
Analyte Total TPH		Qualifier	RL	MDL			Prepared	Analyzed	
Iotal IPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/02/21 16:07	11/03/21 17:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 17:28	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 17:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/02/21 16:07	11/03/21 17:28	1
			70 - 130				11/02/21 16:07	11/03/21 17:28	1
	99								
o-Terphenyl Method: 300.0 - Anions, Ion Chro		Soluble							
o-Terphenyl	omatography -	Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1502-56

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-56 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 10:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 10:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 10:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:11	11/04/21 10:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 10:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:11	11/04/21 10:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/01/21 12:11	11/04/21 10:20	1
1,4-Difluorobenzene (Surr)	115		70 - 130				11/01/21 12:11	11/04/21 10:20	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range	•	O) (GC) Qualifier	RL	MDI	Unit	D	Drangrad	Analyzod	Dil Fac
Analyte				MDL		— Б	Prepared	Analyzed	
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/02/21 16:07	11/03/21 17:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 17:49	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				11/02/21 16:07	11/03/21 17:49	1
o-Terphenyl	113		70 - 130				11/02/21 16:07	11/03/21 17:49	1
Method: 300.0 - Anions, Ion Chro									
Analyte	Pocult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte	2450	Qualifici	25.0	WIDE	mg/Kg		riepaieu	11/08/21 06:40	5

Client Sample ID: BH-57 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/04/21 11:11	11/05/21 00:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/04/21 11:11	11/05/21 00:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/04/21 11:11	11/05/21 00:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/04/21 11:11	11/05/21 00:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/04/21 11:11	11/05/21 00:32	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/04/21 11:11	11/05/21 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				11/04/21 11:11	11/05/21 00:32	1

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Lab Sample ID: 890-1502-57

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Lab Sample ID: 890-1502-57

11/02/21 16:07

11/03/21 18:11

Lab Sample ID: 890-1502-58

Matrix: Solid

11/02/21 16:07 11/03/21 18:11

Client Sample ID: BH-57 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B	- Volatile Organ	ic Compounds	(GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	221	S1+	70 - 130	11/04/21 11:11	11/05/21 00:32	

Method: 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			11/09/21 10:40	1

Mothod: 8015 NM - Diesel Range	Organice	(DRO) (GC)

Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			11/05/21 13:50	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:11	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	99	70 - 130	
o-Terphenyl	102	70 - 130	

L ' '							
Method: 300.0 - Anions, Ion	Chromatography - Soluble						
Δnalvto	Result Qualifier	RI	MDI Unit	D	Prenared	Analyzed	Dil Fac

Allalyto	resuit	Qualifici	112	MDL	Oilit	 ricparca	Allalyzea	Diriac
Chloride	1190		4.99		mg/Kg	 	11/08/21 06:48	1

Client Sample ID: BH-58 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

Motifica. Coz ID Volutilo Orga	ino compounds	(33)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/04/21 11:11	11/05/21 00:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/04/21 11:11	11/05/21 00:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/04/21 11:11	11/05/21 00:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/04/21 11:11	11/05/21 00:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/04/21 11:11	11/05/21 00:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/04/21 11:11	11/05/21 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/04/21 11:11	11/05/21 00:58	1
1,4-Difluorobenzene (Surr)	243	S1+	70 - 130				11/04/21 11:11	11/05/21 00:58	1

Mothod:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402		ma/Ka			11/09/21 10:40	1

Analyte	•	•	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<49.9	U	49.9	mg/			11/05/21 13:50	1

Lab Sample ID: 890-1502-58

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-58 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				11/02/21 16:07	11/03/21 18:32	1
o-Terphenyl	93		70 - 130				11/02/21 16:07	11/03/21 18:32	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-59 (15) Lab Sample ID: 890-1502-59 Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/05/21 01:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/05/21 01:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/05/21 01:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/04/21 11:11	11/05/21 01:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/05/21 01:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/04/21 11:11	11/05/21 01:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				11/04/21 11:11	11/05/21 01:24	1
1,4-Difluorobenzene (Surr)	243	S1+	70 - 130				11/04/21 11:11	11/05/21 01:24	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		11/02/21 16:07	11/03/21 18:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:53	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				11/02/21 16:07	11/03/21 18:53	1
			70 - 130				11/02/21 16:07	11/03/21 18:53	

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11/10/2021

Lab Sample ID: 890-1502-59

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-59 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1760		24.9		mg/Kg			11/08/21 07:18	5

Client Sample ID: BH-60 (15)

Date Collected: 10/27/21 00:00

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 01:51	
Toluene	< 0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 01:51	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 01:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/04/21 11:11	11/05/21 01:51	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 01:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/04/21 11:11	11/05/21 01:51	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	13	S1-	70 - 130				11/04/21 11:11	11/05/21 01:51	
1,4-Difluorobenzene (Surr)	230	S1+	70 - 130				11/04/21 11:11	11/05/21 01:51	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	•								
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 19:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 19:15	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				11/02/21 16:07	11/03/21 19:15	1
o-Terphenyl	87		70 - 130				11/02/21 16:07	11/03/21 19:15	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1502-61

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-61 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		11/01/21 12:13	11/03/21 05:47	1
Toluene	<0.00199	U F1 F2	0.00199		mg/Kg		11/01/21 12:13	11/03/21 05:47	1
Ethylbenzene	<0.00199	U F1 F2	0.00199		mg/Kg		11/01/21 12:13	11/03/21 05:47	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398		mg/Kg		11/01/21 12:13	11/03/21 05:47	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		11/01/21 12:13	11/03/21 05:47	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		11/01/21 12:13	11/03/21 05:47	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130				11/01/21 12:13	11/03/21 05:47	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/01/21 12:13	11/03/21 05:47	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <49.9		49.9	MDL	mg/Kg	D	Prepared	Analyzed 11/05/21 13:50	Dil Fac
· ·									
Method: 8015B NM - Diesel Rang	•					_			5 -
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	49.9		mg/Kg		11/03/21 10:38	11/03/21 21:06	,
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	49.9		mg/Kg		11/03/21 10:38	11/03/21 21:06	,
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/03/21 21:06	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	50	S1-	70 - 130				11/03/21 10:38	11/03/21 21:06	1
o-Terphenyl	34	S1-	70 - 130				11/03/21 10:38	11/03/21 21:06	:
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
	•								
Analyte	•	Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed 11/08/21 07:33	Dil Fac

Client Sample ID: BH-62 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 06:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 06:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 06:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 12:13	11/03/21 06:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 06:08	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 12:13	11/03/21 06:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/01/21 12:13	11/03/21 06:08	

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Lab Sample ID: 890-1502-62

Matrix: Solid

Released to Imaging: 9/1/2023 3:11:42 PM

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-62 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Lab Sample	ID:	890-1502-62
		Matrix: Solid

Lab Sample ID: 890-1502-63

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	11/01/21 12:13	11/03/21 06:08	1

Method: 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			11/09/21 10:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			11/05/21 13:50	1

Method: 8015B 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		11/03/21 10:38	11/03/21 22:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/03/21 22:16	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/03/21 22:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93	70 - 130	11/03/21 10:38	11/03/21 22:16	1
o-Terphenyl	90	70 - 130	11/03/21 10:38	11/03/21 22:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	1480		25.2		mg/Kg			11/08/21 07:41	5

Client Sample ID: BH-63 (15)

Date Received: 10/29/21 12:45

Sample Depth: 15

ate Collected: 10/27/21 00:00	Matrix: Solid

Mothod: 9024B	Volatile	Organia	Compounds	(CC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 06:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 06:28	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 06:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 06:28	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 06:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 06:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/01/21 12:13	11/03/21 06:28	1
1,4-Difluorobenzene (Surr)	102		70 - 130				11/01/21 12:13	11/03/21 06:28	1

Method:	Total	RTFX	- Total	RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka			11/09/21 10:40	1

	Method: 8015 NM -	- Diesel Range	Organics	(DRO)	(GC)
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Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	r	mg/Kg			11/05/21 13:50	1

Lab Sample ID: 890-1502-63

Lab Sample ID: 890-1502-64

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-63 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 22:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 22:39	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 22:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				11/03/21 10:38	11/03/21 22:39	1
o-Terphenyl	95		70 - 130				11/03/21 10:38	11/03/21 22:39	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-64 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 06:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 06:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 06:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:13	11/03/21 06:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 06:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:13	11/03/21 06:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				11/01/21 12:13	11/03/21 06:48	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/01/21 12:13	11/03/21 06:48	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		11/03/21 10:38	11/03/21 23:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 23:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/03/21 10:38	11/03/21 23:00	1

Lab Sample ID: 890-1502-64

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-64 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	2760		24.9		mg/Kg			11/08/21 07:56	5		

Client Sample ID: BH-65 (15)

Date Collected: 10/27/21 00:00

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:13	11/03/21 07:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:09	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:13	11/03/21 07:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				11/01/21 12:13	11/03/21 07:09	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/01/21 12:13	11/03/21 07:09	1
Method: 8015 NM - Diesel Range	•	, ,	Di	MDI	11-24	_	D	Austral	D!! F
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	• • •	RO) (GC) Qualifier	RL	MDI	Unit		Duamanad	Amalumad	Dil Fac
Analyte				MDL		D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/03/21 23:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/03/21 23:21	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/03/21 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

RL

4.99

MDL Unit

mg/Kg

99

107

Result Qualifier

823 F1

Method: 300.0 - Anions, Ion Chromatography - Soluble

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11/03/21 23:21

11/03/21 23:21

Analyzed

11/08/21 08:58

11/03/21 10:38

11/03/21 10:38

Prepared

D

Dil Fac

Released to Imaging: 9/1/2023 3:11:42 PM

1-Chlorooctane

o-Terphenyl

Analyte

Chloride

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Lab Sample ID: 890-1502-66

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-66 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 07:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 07:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 07:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:13	11/03/21 07:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 07:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:13	11/03/21 07:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				11/01/21 12:13	11/03/21 07:29	1
1,4-Difluorobenzene (Surr)	72		70 - 130				11/01/21 12:13	11/03/21 07:29	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result		50.0 —	MDL	mg/Kg	D	Prepared	11/05/21 13:50	Dil Fac
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/03/21 10:38	11/03/21 23:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 23:41	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				11/03/21 10:38	11/03/21 23:41	1
o-Terphenyl	112		70 - 130				11/03/21 10:38	11/03/21 23:41	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte Chloride	Result 522	Qualifier	RL 4.95	MDL	Unit mg/Kg	D	Prepared	Analyzed 11/08/21 09:21	Dil Fac

Client Sample ID: BH-67 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:50	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/01/21 12:13	11/03/21 07:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:50	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/01/21 12:13	11/03/21 07:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:13	11/03/21 07:50	1

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Lab Sample ID: 890-1502-67

Lab Sample ID: 890-1502-67

Lab Sample ID: 890-1502-68

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-67 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
mothodi coz iz rolatilo olgalilo compt	Julius (33)	(Continuou,

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100	70 - 130	11/01/21 12:13	11/03/21 07:50	1

Mathad:	Total	RTFY -	Total	RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg		_	11/09/21 10:40	1

-				
	Method: 8015 NM - Diesel	Danes Oreanias		
	- wethod: outs nw - Diesei	Range Organics	(DRO) (5 61

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg]		11/05/21 13:50	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 00:02	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 00:02	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102	70 - 130	11/03/21 10:	38 11/04/21 00:02	1
o-Terphenyl	110	70 - 130	11/03/21 10:	38 11/04/21 00:02	1

Method: 300.0	- Anions, Ion	Chromate	ography	/ - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	854		4.98		mg/Kg	 		11/08/21 09:29	1

Client Sample ID: BH-68 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	• voiatile Organic	Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:10	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 08:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 08:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				11/01/21 12:13	11/03/21 08:10	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/01/21 12:13	11/03/21 08:10	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/05/21 13:50	1

Lab Sample ID: 890-1502-68

Lab Sample ID: 890-1502-69

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-68 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 00:23	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 00:23	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/03/21 10:38	11/04/21 00:23	1
o-Terphenyl	98		70 - 130				11/03/21 10:38	11/04/21 00:23	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
									5

Client Sample ID: BH-69 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 08:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 08:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 08:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:13	11/03/21 08:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 08:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:13	11/03/21 08:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				11/01/21 12:13	11/03/21 08:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130				11/01/21 12:13	11/03/21 08:30	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		11/03/21 10:38	11/04/21 00:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 00:44	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/03/21 10:38	11/04/21 00:44	1
	114		70 ₋ 130				11/03/21 10:38	11/04/21 00:44	

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Matrix: Solid

Lab Sample ID: 890-1502-69

Lab Sample ID: 890-1502-70

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-69 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	632		4.99		mg/Kg			11/08/21 09:44	1

Client Sample ID: BH-70 (15)

Date Collected: 10/28/21 00:00

Method: 8021B - Volatile Organic	c Compounds (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:51	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:51	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 08:51	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 08:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				11/01/21 12:13	11/03/21 08:51	1
1,4-Difluorobenzene (Surr)	102		70 - 130				11/01/21 12:13	11/03/21 08:51	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	11	0.00398		mg/Kg			11/09/21 10:40	1
TOTAL BY LA	10.00000	Ü	0.00000		9/119				
Method: 8015 NM - Diesel Range			0.00000		99				
Method: 8015 NM - Diesel Range Analyte	e Organics (DR	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC) Qualifier		MDL		D	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte	e Organics (DR) Result <49.9	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR Result <49.9	O) (GC) Qualifier	RL		Unit	<u>D</u>	Prepared Prepared	Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	e Organics (DR Result <49.9	Qualifier U RO) (GC) Qualifier	RL 49.9		Unit mg/Kg			Analyzed 11/05/21 13:50	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result <49.9 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U Qualifier U	RL 49.9		Unit mg/Kg		Prepared	Analyzed 11/05/21 13:50 Analyzed	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR Result <49.9 ge Organics (DI Result <49.9	Qualifier U RO) (GC) Qualifier U Qualifier U	RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 11/03/21 10:38	Analyzed 11/05/21 13:50 Analyzed 11/04/21 01:05	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <49.9 ge Organics (DI Result <49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 10:38 11/03/21 10:38	Analyzed 11/05/21 13:50 Analyzed 11/04/21 01:05 11/04/21 01:05	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	e Organics (DR Result <49.9 ge Organics (DI Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 10:38 11/03/21 10:38 11/03/21 10:38	Analyzed 11/05/21 13:50 Analyzed 11/04/21 01:05 11/04/21 01:05	Dil Fac 1 1 Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (DR Result <49.9 ge Organics (DI Result <49.9 <49.9 <49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 RL 49.9 49.9 49.9 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared	Analyzed 11/05/21 13:50 Analyzed 11/04/21 01:05 11/04/21 01:05 Analyzed	1 Dil Fac 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	e Organics (DR/Result	Qualifier U RO) (GC) Qualifier U U Qualifier U	RL 49.9 RL 49.9 49.9 49.9 Limits 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared 11/03/21 10:38	Analyzed 11/05/21 13:50 Analyzed 11/04/21 01:05 11/04/21 01:05 Analyzed 11/04/21 01:05	1 Dil Fac 1 1 1 1 Dil Fac 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	e Organics (DR Result <49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery 97 103 omatography -	Qualifier U RO) (GC) Qualifier U U Qualifier U	RL 49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared 11/03/21 10:38	Analyzed 11/05/21 13:50 Analyzed 11/04/21 01:05 11/04/21 01:05 Analyzed 11/04/21 01:05	1 Dil Fac 1 1 1 1 Dil Fac 1

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Lab Sample ID: 890-1502-71

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-71 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 10:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 10:40	1
Ethylbenzene	0.00378		0.00200		mg/Kg		11/01/21 12:13	11/03/21 10:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:13	11/03/21 10:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 10:40	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:13	11/03/21 10:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/01/21 12:13	11/03/21 10:40	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/01/21 12:13	11/03/21 10:40	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	WIDE	mg/Kg		Trepareu	11/05/21 13:50	1
Method: 8015B NM - Diesel Ranç Analyte	•	RO) (GC) Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics			49.9	MIDL	mg/Kg		11/03/21 10:38	11/04/21 01:48	Dii Fac
(GRO)-C6-C10	\49.9	U	49.9		ilig/Kg		11/03/21 10.36	11/04/21 01.46	'
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 01:48	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 01:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/03/21 10:38	11/04/21 01:48	1
o-Terphenyl	107		70 - 130				11/03/21 10:38	11/04/21 01:48	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chro Analyte		Soluble Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-72 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 11:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 11:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 11:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:13	11/03/21 11:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 11:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:13	11/03/21 11:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				11/01/21 12:13	11/03/21 11:00	1

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Lab Sample ID: 890-1502-72

Matrix: Solid

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Lab Sample ID: 890-1502-72

11/03/21 10:38 11/04/21 02:09

Lab Sample ID: 890-1502-73

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-72 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile O	rganic Compou	nds (GC)	(Continued)
Michiga: OUL 1B Volume C	i gaino compou	1145 (55)	(Goillinaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103	70 - 130	11/01/21 12:13	11/03/21 11:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			_	11/09/21 10:40	1

Method: 801	5 NM - Diesel	Range Organics	e (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	ared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:09	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:09	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	115	70 - 130	
o-Terphenyl	128	70 - 130	

o-Terphenyl	128	70 - 130	11/03/21 10:38	11/04/21 02:09	1
Method: 300.0 - Anions, Ion Chromatograp	hy - Soluble				

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	692	4.95	mg/Kg			11/08/21 10:22	1

Client Sample ID: BH-73 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B	. Volatile	Organic (Compounds	(GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 11:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 11:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 11:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 12:13	11/03/21 11:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 11:21	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 12:13	11/03/21 11:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				11/01/21 12:13	11/03/21 11:21	1
1,4-Difluorobenzene (Surr)	102		70 - 130				11/01/21 12:13	11/03/21 11:21	1

Mothod:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		ma/Ka				11/09/21 10:40	1

Method. 0013 MM - Dieser Kange Organics (DRO) (GC)	Method: 8015 NM - Die	esel Range C	Organics (DRO)	(GC)
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Analyte		Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total TPH		58.5		49.9		mg/Kg				11/05/21 13:50	1

Lab Sample ID: 890-1502-73

Client: Tetra Tech, Inc.

Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-73 (15) Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45 Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:31	1
Diesel Range Organics (Over C10-C28)	58.5		49.9		mg/Kg		11/03/21 10:38	11/04/21 02:31	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				11/03/21 10:38	11/04/21 02:31	1
o-Terphenyl	91		70 - 130				11/03/21 10:38	11/04/21 02:31	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								11/08/21 10:30	5

Client Sample ID: BH-74 (15) Lab Sample ID: 890-1502-74 Date Collected: 10/28/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 11:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 11:41	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 11:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 11:41	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 11:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 11:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				11/01/21 12:13	11/03/21 11:41	1
1,4-Difluorobenzene (Surr)	98		70 - 130				11/01/21 12:13	11/03/21 11:41	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/03/21 10:38	11/04/21 02:52	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:52	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/03/21 10:38	11/04/21 02:52	1
o-Terphenyl	102		70 - 130				11/03/21 10:38	11/04/21 02:52	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-74 (15)

Lab Sample ID: 890-1502-74 Date Collected: 10/28/21 00:00

Matrix: Solid

Date Received: 10/29/21 12:45 Sample Depth: 15

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2620		25.2		mg/Kg			11/08/21 10:37	5

Client Sample ID: BH-75 (15) Lab Sample ID: 890-1502-75

Date Collected: 10/28/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:13	11/03/21 12:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:13	11/03/21 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				11/01/21 12:13	11/03/21 12:02	1
1,4-Difluorobenzene (Surr)	79		70 - 130				11/01/21 12:13	11/03/21 12:02	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	•	, ,	DI	MDI	11-14		Burnand	Amakanad	D!! F
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/03/21 10:38	11/04/21 03:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 03:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	100		70 - 130				11/03/21 10:38	11/04/21 03:14	1
1-Chlorooctane							11/03/21 10:38	11/04/21 03:14	1
1-Chlorooctane o-Terphenyl	109		70 - 130				11/03/21 10:30	11/04/21 03.14	,
	109	Soluble	70 - 130				11/00/21 10:00	11/04/21 03.14	,
o-Terphenyl	109 omatography -	Soluble Qualifier	70 ₋ 130	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1502-76

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-76 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:13	11/03/21 12:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:13	11/03/21 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				11/01/21 12:13	11/03/21 12:22	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 12:13	11/03/21 12:22	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/03/21 10:38	11/04/21 03:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 03:36	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				11/03/21 10:38	11/04/21 03:36	1
o-Terphenyl	96		70 - 130				11/03/21 10:38	11/04/21 03:36	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte		Qualifier		MDL	Unit mg/Kg	D	Prepared	Analyzed 11/08/21 11:08	Dil Fac

Client Sample ID: BH-77 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:13	11/03/21 12:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:13	11/03/21 12:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				11/01/21 12:13	11/03/21 12:42	

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Lab Sample ID: 890-1502-77

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Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Lab Sample ID: 890-1502-77

Client Sample ID: BH-77 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Received. 10/23/21 12.45		
No Donth: 15		

Method: 8021B - Volatile Organic Compounds (GC) (Continued)							
Surrogate	%Recovery Qualifier Limits	Prepared Analyzed Dil Fac					

1,4-Difluorobenzene (Surr)	71	70 - 130	11/01/21 12:13	3 11/03/21 12:42	
_ ,					

Method: Total BTEX - Total BTEX Calculation
Motifica: Total BTEX Total BTEX Galociation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399		0.00399		mg/Kg			11/09/21 10:40	1

Method: 8015 NM - Diesel Range	Organics (DRC	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1

Method: 8015B NM - Diesel Range Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 03:57	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 03:57	1
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyze	d Dil Fac
1-Chlorooctane	99		70 - 130	11/03/21 1	0:38 11/04/21 03	3:57 1
o-Terphenyl	105		70 - 130	11/03/21 1	0:38 11/04/21 03	3:57 1

Method: 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1430	24 9	ma/Ka			11/08/21 12:34	5

Client Sample ID: BH-78 (15) Lab Sample ID: 890-1502-78 Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatile Organie	Compounds (GC)
Melliou. Ouz ID -	voiatile Organic	Compounds (GC)

		/							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:03	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:13	11/03/21 13:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:03	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:13	11/03/21 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/01/21 12:13	11/03/21 13:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/01/21 12:13	11/03/21 13:03	1

Method: Total BTEX - Total BTEX C	alculation				
1,4-Difluorobenzene (Surr)	99	70 - 130	11/01/21 12:13	11/03/21 13:03	1
4-Bromotiuorobenzene (Surr)	118	70 - 130	11/01/21 12:13	11/03/21 13:03	7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/09/21 10:40	1

Method: 8015 NM - Diesel Range	Organics (DRO) (GC)
AI4-	DIK O

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			11/05/21 13:50	1

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11/10/2021

Lab Sample ID: 890-1502-78

Lab Sample ID: 890-1502-79

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-78 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 04:18	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 04:18	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				11/03/21 10:38	11/04/21 04:18	1
o-Terphenyl	112		70 - 130				11/03/21 10:38	11/04/21 04:18	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	426		4.95		mg/Kg			11/08/21 11:39	

Client Sample ID: BH-79 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 13:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 13:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 13:23	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 12:13	11/03/21 13:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 13:23	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 12:13	11/03/21 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				11/01/21 12:13	11/03/21 13:23	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 12:13	11/03/21 13:23	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		11/03/21 10:38	11/04/21 04:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 04:40	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 04:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				11/03/21 10:38	11/04/21 04:40	1
	103		70 ₋ 130				11/03/21 10:38	11/04/21 04:40	1

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11/10/2021

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-79 (15) Lab Sample ID: 890-1502-79

Date Collected: 10/28/21 00:00 Matrix: Solid Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chroma	tography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	561		4.95		mg/Kg			11/08/21 11:46	1

Client Sample ID: BH-80 (15) Lab Sample ID: 890-1502-80 Matrix: Solid

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:44	
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/01/21 12:13	11/03/21 13:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:44	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/01/21 12:13	11/03/21 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/01/21 12:13	11/03/21 13:44	1
1,4-Difluorobenzene (Surr)	106		70 - 130				11/01/21 12:13	11/03/21 13:44	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	•								
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 05:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 05:01	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/03/21 10:38	11/04/21 05:01	1
o-Terphenyl	122		70 - 130				11/03/21 10:38	11/04/21 05:01	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	609		5.01		mg/Kg			11/08/21 11:54	1

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-81 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199		mg/Kg		11/01/21 12:16	11/03/21 17:55	1
Toluene	< 0.00199	U F2 F1	0.00199		mg/Kg		11/01/21 12:16	11/03/21 17:55	1
Ethylbenzene	< 0.00199	U F2 F1	0.00199		mg/Kg		11/01/21 12:16	11/03/21 17:55	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398		mg/Kg		11/01/21 12:16	11/03/21 17:55	1
o-Xylene	< 0.00199	U F2 F1	0.00199		mg/Kg		11/01/21 12:16	11/03/21 17:55	1
Xylenes, Total	<0.00398	U F2 F1	0.00398		mg/Kg		11/01/21 12:16	11/03/21 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				11/01/21 12:16	11/03/21 17:55	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				11/01/21 12:16	11/03/21 17:55	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								Allalyzeu	DII Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	
- -			49.9		mg/Kg	=			
Method: 8015B NM - Diesel Ran	ge Organics (D		49.9 RL	MDL			Prepared		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL			<u> </u>	11/05/21 13:50	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/03/21 11:37	11/05/21 13:50 Analyzed 11/04/21 11:05	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 11:37 11/03/21 11:37	11/05/21 13:50 Analyzed 11/04/21 11:05 11/04/21 11:05	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 11:37 11/03/21 11:37	Analyzed 11/04/21 11:05 11/04/21 11:05 11/04/21 11:05	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	D	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared	Analyzed 11/04/21 11:05 11/04/21 11:05 11/04/21 11:05 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 91 101	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	Analyzed 11/04/21 11:05 11/04/21 11:05 11/04/21 11:05 Analyzed 11/04/21 11:05	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 91 101 omatography -	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	Analyzed 11/04/21 11:05 11/04/21 11:05 11/04/21 11:05 Analyzed 11/04/21 11:05	Dil Fac

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 18:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 18:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 18:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:16	11/03/21 18:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 18:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:16	11/03/21 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				11/01/21 12:16	11/03/21 18:15	1

Eurofins Xenco, Carlsbad

Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-81

Matrix: Solid

Lab Sample ID: 890-1502-82

11/04/21 12:11

Lab Sample ID: 890-1502-83

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-82 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
modification totaling organic compa	Julius (33)	(Continuou,

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83	70 - 130	11/01/21 12:16	11/03/21 18:15	1

ı				
ı	Method:	Total RTFX	: - Total BTEX	Calculation
ı	mictilou.	TOTAL DIE	- IOLAI DIEA	Oulculation

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			_	11/09/21 10:40	1

Method: 8015 NM - Diesel	Danga Organica		
i welliou, ou la min - Diesei	Range Organics	ונטאטו	901

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/05/21 13:50	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 12:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 12:11	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	89	70 - 130	11/03/21 11:37
o-Terphenyl	102	70 - 130	11/03/21 11:37

o-Terphenyl	102	70 - 130			11/03/21 11:37	11/04/21 12:11		1
Method: 300.0 - Anions, Ion Chromatogra	aphy - Soluble							
Δnalvte	Result Qualifier	RI	MDI Unit	D	Prepared	∆ nalvzed	Dil Fa	c

	Analyte	Result Qualifier	NL	WIDE OIII	 riepaieu	Allalyzeu	DII Fac
l	Chloride	306	4.98	mg/Kg		11/08/21 12:09	1

Client Sample ID: BH-83 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B -	Malatile O		
I IVIATOOO' XII ZI R .	. VAISTIID I Jr	nanic Lomn	Allings Ital.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:36	1
Ethylbenzene	0.00427		0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				11/01/21 12:16	11/03/21 18:36	1
1,4-Difluorobenzene (Surr)	90		70 - 130				11/01/21 12:16	11/03/21 18:36	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00427		0.00400		mg/Kg			11/09/21 10:40	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/05/21 13:50	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-83 (15) Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-83

Date Received: 10/29/21 12:45

Matrix: Solid

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 12:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 12:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				11/03/21 11:37	11/04/21 12:32	1
o-Terphenyl	105		70 - 130				11/03/21 11:37	11/04/21 12:32	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1502-84 Client Sample ID: BH-84 (15) Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Matrix: Solid

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 18:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				11/01/21 12:16	11/03/21 18:56	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/01/21 12:16	11/03/21 18:56	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0								Dil Fac
-	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
- -			50.0		mg/Kg				
Method: 8015B NM - Diesel Ranç Analyte	ge Organics (D		50.0 RL	MDL			Prepared		
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC) Qualifier		MDL		D	Prepared 11/03/21 11:37	11/05/21 13:50	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		11/05/21 13:50 Analyzed	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	11/03/21 11:37	11/05/21 13:50 Analyzed 11/04/21 12:55	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DI Result <50.0	RO) (GC) Qualifier U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 11:37	11/05/21 13:50 Analyzed 11/04/21 12:55 11/04/21 12:55	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D) Result <50.0 <50.0	RO) (GC) Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37	11/05/21 13:50 Analyzed 11/04/21 12:55 11/04/21 12:55	1 Dil Fac 1 1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-84 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Lab Sample ID: 890-1502-84

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	710		4.99		mg/Kg			11/08/21 12:25	1

Client Sample ID: BH-85 (15)	Lab Sample ID: 890-1502-85
Date Collected: 10/28/21 00:00	Matrix: Solid
Date Received: 10/29/21 12:45	
Sample Depth: 15	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 19:17	
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 19:17	•
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 19:17	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:16	11/03/21 19:17	•
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 19:17	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:16	11/03/21 19:17	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				11/01/21 12:16	11/03/21 19:17	
1,4-Difluorobenzene (Surr)	110		70 - 130				11/01/21 12:16	11/03/21 19:17	
Method: 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			11/09/21 10:40	,
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8		49.8		mg/Kg			11/05/21 13:50	
: Method: 8015B NM - Diesel Rang	no Organics (D	RO) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 13:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 13:16	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 13:16	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	93		70 - 130				11/03/21 11:37	11/04/21 13:16	1
o-Terphenyl	106		70 - 130				11/03/21 11:37	11/04/21 13:16	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	656	F1	4.99		mg/Kg			11/09/21 12:52	

Lab Sample ID: 890-1502-86

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-86 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:16	11/03/21 19:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:16	11/03/21 19:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:16	11/03/21 19:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 12:16	11/03/21 19:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:16	11/03/21 19:37	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 12:16	11/03/21 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				11/01/21 12:16	11/03/21 19:37	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/01/21 12:16	11/03/21 19:37	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range									
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/08/21 15:54	
Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0 ge Organics (D)	Qualifier U				<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <50.0 ge Organics (D)	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	=	<u> </u>	11/08/21 15:54	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg	=	Prepared	11/08/21 15:54 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (Dige Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 13:38	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 11:37 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 13:38 11/04/21 13:38	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 11:37 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 13:38 11/04/21 13:38	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared	Analyzed 11/04/21 13:38 11/04/21 13:38 11/04/21 13:38 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 13:38 11/04/21 13:38 Analyzed 11/04/21 13:38	Dil Fac 1 1 Dil Fac 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 13:38 11/04/21 13:38 Analyzed 11/04/21 13:38	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: BH-87 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 19:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 19:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 19:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/03/21 19:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 19:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/03/21 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:16	11/03/21 19:57	

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Lab Sample ID: 890-1502-87

Matrix: Solid

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Lab Sample ID: 890-1502-87

Lab Sample ID: 890-1502-88

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-87 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile O	rganic Compou	nds (GC)	(Continued)
Michiga: OUL 1B Volume C	i gaino compou	1145 (55)	(Goillinaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	11/01/21 12:16	11/03/21 19:57	1

Mothod:	Total RTEX	- Total BTE	Calculation
welliou.	TOTAL DIEV	- IUIAI DIE	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399		0.00399		mg/Kg			11/09/21 10:40	1

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Moth	nod: 8015 NM	Diocal Bana	o Organica	IDDOVIC	105
INIELI	IOU. OU 15 INIVI	- Diesei Kaliy	e Organics	ין נטאטן	3C)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg]		11/08/21 15:54	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 13:59	1
(GRO)-C6-C10	<49.8	11	49.8		mg/Kg		11/03/21 11:37	11/04/21 13:59	1
Diesel Range Organics (Over C10-C28)	\49.0	U	49.6		mg/Kg		11/03/21 11.37	11/04/21 13:39	ı
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 13:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	DII Fac
1-Chlorooctane	93	70 - 130	11/03/21 11:33	11/04/21 13:59	1
o-Terphenyl	110	70 - 130	11/03/21 11:3	7 11/04/21 13:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500	5.00		mg/Kg		_	11/09/21 13:22	1

Client Sample ID: BH-88 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	• voiatile Organic	Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 20:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 20:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 20:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 20:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 20:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 20:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/01/21 12:16	11/03/21 20:18	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/01/21 12:16	11/03/21 20:18	1

Method:	Total	RTFY -	Total F	RTFY	Calculation	n

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		ma/Ka			11/09/21 10:40	1

Method. 0013 MM - Dieser Kange Organics (DRO) (GC)	Method: 8015 NM - Die	esel Range C	Organics (DRO)	(GC)
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			11/08/21 15:54	1

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Lab Sample ID: 890-1502-88

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-88 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 14:20	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 14:20	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/03/21 11:37	11/04/21 14:20	1
o-Terphenyl	108		70 - 130				11/03/21 11:37	11/04/21 14:20	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-89 (15)

Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-89

Matrix: Solid

Date Received: 10/29/21 12:45

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Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 20:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 20:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 20:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:16	11/03/21 20:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 20:38	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:16	11/03/21 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				11/01/21 12:16	11/03/21 20:38	1
1,4-Difluorobenzene (Surr)	112		70 - 130				11/01/21 12:16	11/03/21 20:38	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		11/03/21 11:37	11/04/21 14:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 14:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 14:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				11/03/21 11:37	11/04/21 14:41	1
o-Terphenyl	107		70 ₋ 130				11/03/21 11:37	11/04/21 14:41	1

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Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-89 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Lab Sample ID: 890-1502-89

Matrix: Solid

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2630		24.9		mg/Kg			11/09/21 13:38	5

Client Sample ID: BH90 (RS) (6)

Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-90

Matrix: Solid

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 20:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 20:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 20:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:16	11/03/21 20:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 20:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:16	11/03/21 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/01/21 12:16	11/03/21 20:59	1
1,4-Difluorobenzene (Surr)	126		70 - 130				11/01/21 12:16	11/03/21 20:59	1
- Method: Total BTEX - Total B1	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		11/03/21 11:37	11/04/21 15:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 15:03	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/03/21 11:37	11/04/21 15:03	1
o-Terphenyl	112		70 ₋ 130				11/03/21 11:37	11/04/21 15:03	1

Method: 300.0 - Anions, Ion Chroma	atography - 🤄	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		4.95		mg/Kg			11/09/21 14:01	1

Lab Sample ID: 890-1502-91

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-91 (RS) (6)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 22:48	-
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 22:48	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 22:48	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:16	11/03/21 22:48	
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 22:48	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:16	11/03/21 22:48	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				11/01/21 12:16	11/03/21 22:48	
1,4-Difluorobenzene (Surr)	111		70 - 130				11/01/21 12:16	11/03/21 22:48	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesel Range	•		D.	MDI	11-24	_	D	Accelerand	Dil F
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 15:46	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 15:46	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 15:46	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	92		70 - 130				11/03/21 11:37	11/04/21 15:46	
o-Terphenyl	107		70 - 130				11/03/21 11:37	11/04/21 15:46	
Method: 300.0 - Anions, Ion Chro									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Chloride	1100		5.01		mg/Kg			11/09/21 14:08	

Client Sample ID: SW-1 (0-6) Date Collected: 10/25/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-1502-92

Matrix: Solid

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 23:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				11/01/21 12:16	11/03/21 23:09	1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-1 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45 Sample Depth: 0 - 6 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-1502-92

Matrix: Solid

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Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	122		70 - 130				11/01/21 12:16	11/03/21 23:09	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	331		49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		11/03/21 11:37	11/04/21 16:07	1
Diesel Range Organics (Over C10-C28)	331		49.9		mg/Kg		11/03/21 11:37	11/04/21 16:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				11/03/21 11:37	11/04/21 16:07	1
o-Terphenyl	106		70 - 130				11/03/21 11:37	11/04/21 16:07	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		25.1		mg/Kg			11/07/21 02:54	5

Client Sample ID: SW-2 (0-6)

Date Collected: 10/25/21 00:00

Lab Sample ID: 890-1502-93

Matrix: Solid

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/03/21 23:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/03/21 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				11/01/21 12:16	11/03/21 23:29	1
1,4-Difluorobenzene (Surr)	74		70 - 130				11/01/21 12:16	11/03/21 23:29	1
Method: Total BTEX - Total B	ΓEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.3		49.9		mg/Kg			11/08/21 15:54	

Job ID: 890-1502-1

Lab Sample ID: 890-1502-93

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-2 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Date Received. 10/23/21	12.43
Sample Depth: 0 - 6	

Method: 8015B NM - Diesel Range	Organics (D	RO) (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		11/03/21 11:37	11/04/21 16:29	1
Diesel Range Organics (Over C10-C28)	74.3		49.9		mg/Kg		11/03/21 11:37	11/04/21 16:29	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				11/03/21 11:37	11/04/21 16:29	1
o-Terphenyl	106		70 - 130				11/03/21 11:37	11/04/21 16:29	1
Method: 300.0 - Anions, Ion Chron	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.4		4.98		mg/Kg			11/07/21 03:16	1

Client Sample ID: SW-3 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-1502-94

Matrix: Solid

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 23:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 23:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 23:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:16	11/03/21 23:49	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 23:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:16	11/03/21 23:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/01/21 12:16	11/03/21 23:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/01/21 12:16	11/03/21 23:49	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	je Organics (DI	RO) (GC)							
•	, ,	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	, ,	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/03/21 11:37	Analyzed 11/04/21 16:51	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U		MDL		<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U	49.9	MDL	mg/Kg	<u> </u>	11/03/21 11:37	11/04/21 16:51	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U U U	49.9	MDL	mg/Kg mg/Kg	<u>D</u>	11/03/21 11:37	11/04/21 16:51	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg	<u> </u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37	11/04/21 16:51 11/04/21 16:51 11/04/21 16:51	1 1

REMOVED FROM

ANALYSIS TABLE

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: SW-3 (0-6)

Lab Sample ID: 890-1502-94

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

Matrix: Solid

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250	4.95	mg/Kg			11/07/21 03:24	1

Lab Sample ID: 890-1502-95

Client Sample ID: SW-4 (0-6) Date Collected: 10/25/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45 Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/04/21 00:10	
Toluene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/04/21 00:10	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/04/21 00:10	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:16	11/04/21 00:10	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/04/21 00:10	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:16	11/04/21 00:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				11/01/21 12:16	11/04/21 00:10	
1,4-Difluorobenzene (Surr)	105		70 - 130				11/01/21 12:16	11/04/21 00:10	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	
Method: 8015 NM - Diesel Range	Organics (DR)	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	•	Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/08/21 15:54	Dil Fa
Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U				<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			11/08/21 15:54	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 e Organics (D) Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	11/08/21 15:54 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 11:37 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 17:14 11/04/21 17:14	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 de Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 17:14	
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared	11/08/21 15:54 Analyzed 11/04/21 17:14 11/04/21 17:14 11/04/21 17:14 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 11:37 11/03/21 11:37	Analyzed 11/04/21 17:14 11/04/21 17:14 11/04/21 17:14	Dil Fa

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Analyzed

11/07/21 03:46

RL

4.99

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

1060

Dil Fac

Analyte

Chloride

Lab Sample ID: 890-1502-96

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-5 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/04/21 00:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/04/21 00:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/04/21 00:30	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/01/21 12:16	11/04/21 00:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/04/21 00:30	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/01/21 12:16	11/04/21 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				11/01/21 12:16	11/04/21 00:30	1
1,4-Difluorobenzene (Surr)	110		70 - 130				11/01/21 12:16	11/04/21 00:30	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/09/21 10:40	1
Analyte Total TPH	Result <49.8	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	-10.0							-	
•	\49.0	U	49.8		mg/Kg			11/08/21 15:54	1
- -			49.8		mg/Kg			11/08/21 15:54	
- -	ge Organics (D		49.8 RL	MDL			Prepared	11/08/21 15:54 Analyzed	
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 11/03/21 11:37		1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.8	RO) (GC) Qualifier U	RL 49.8	MDL	Unit mg/Kg	<u>D</u>	11/03/21 11:37	Analyzed 11/04/21 17:35	Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.8	RO) (GC) Qualifier U	RL 49.8	MDL	Unit mg/Kg mg/Kg	D	11/03/21 11:37 11/03/21 11:37	Analyzed 11/04/21 17:35 11/04/21 17:35	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.8 <49.8	RO) (GC) Qualifier U	RL 49.8 49.8 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37	Analyzed 11/04/21 17:35 11/04/21 17:35 11/04/21 17:35	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.8 <49.8 <49.8	RO) (GC) Qualifier U	## ## ## ## ## ## ## ## ## ## ## ## ##	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared	Analyzed 11/04/21 17:35 11/04/21 17:35 11/04/21 17:35 Analyzed	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.8 <49.8 <49.8	RO) (GC) Qualifier U U Qualifier	RL 49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	Analyzed 11/04/21 17:35 11/04/21 17:35 11/04/21 17:35 Analyzed 11/04/21 17:35	1 Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.8 <49.8 <49.8 **Recovery 102 122 **omatography -**	RO) (GC) Qualifier U U Qualifier	RL 49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	Analyzed 11/04/21 17:35 11/04/21 17:35 11/04/21 17:35 Analyzed 11/04/21 17:35	Dil Fac

Client Sample ID: SW-6 (0-6) Date Collected: 10/25/21 00:00

Date Received: 10/29/21 12:45 Sample Depth: 0 - 6

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-1502-97

Matrix: Solid

Ameliate	Desuit	Qualifier	RL	MDL	Unit		Duamanad	Amalumad	Dil Fac
Analyte	Result	Qualifier	KL	MIDL	Unit	D	Prepared	Analyzed	Dii Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 00:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 00:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 00:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/04/21 00:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 00:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/04/21 00:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:16	11/04/21 00:51	1

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Released to Imaging: 9/1/2023 3:11:42 PM

11/10/2021

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: SW-6 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45 Sample Depth: 0 - 6

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-1502-97

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	11/01/21 12:16	11/04/21 00:51	1

Method: Total BTEX - Total BTEX C	alculation				
Δnalvte	Result Qualifier	RI	MDL Unit	D	

Analyte	Result	Qualifier	RL	MDL U	Init	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		ng/Kg		_	11/09/21 10:40	1

Met	thod: 8015 NM - Diesel Range (Organics (DRO) (GC)						
Ana	llyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	988	49.9	mg/Kg			11/08/21 15:54	1
Г							

Method: 00 135 NW - Dieser Kange	e Organics (Dr	(UC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 17:56	1
Diesel Range Organics (Over C10-C28)	988		49.9		mg/Kg		11/03/21 11:37	11/04/21 17:56	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	11/03/21 11:37	11/04/21 17:56	1
o-Terphenyl	98		70 - 130	11/03/21 11:37	11/04/21 17:56	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7870	49.8		mg/Kg			11/07/21 04:01	10

Client Sample ID: SW-7 (0-6)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Sample Depth: 0 - 6

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-1502-98

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/01/21 12:16	11/04/21 01:11	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/01/21 12:16	11/04/21 01:11	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/01/21 12:16	11/04/21 01:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/01/21 12:16	11/04/21 01:11	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/01/21 12:16	11/04/21 01:11	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/01/21 12:16	11/04/21 01:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			11/01/21 12:16	11/04/21 01:11	1
1.4-Difluorobenzene (Surr)	96		70 - 130			11/01/21 12:16	11/04/21 01:11	1

Guiroguic	Miccovery	Qualifici	Lillies	тер	uicu	Analyzea	Dii i uc	
4-Bromofluorobenzene (Surr)	114		70 - 130	11/01/2	1 12:16	11/04/21 01:11	1	
1,4-Difluorobenzene (Surr)	96		70 - 130	11/01/2	1 12:16	11/04/21 01:11	1	

Method: 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			11/09/21 10:40	1

Method: 8015 NM - Diesel Range C	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.9		49.9		mg/Kg			11/08/21 15:54	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-7 (0-6)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 **REMOVED FROM ANALYSIS TABLE** Lab Sample ID: 890-1502-98

Matrix: Solid

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 18:17	1
Diesel Range Organics (Over C10-C28)	86.9		49.9		mg/Kg		11/03/21 11:37	11/04/21 18:17	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 18:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				11/03/21 11:37	11/04/21 18:17	1
o-Terphenyl	109		70 - 130				11/03/21 11:37	11/04/21 18:17	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6430		50.0		mg/Kg			11/07/21 04:08	10

Client Sample ID: SW-8 (0-6)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

REMOVED FROM **ANALYSIS TABLE**

Lab Sample ID: 890-1502-99

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/04/21 01:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/04/21 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				11/01/21 12:16	11/04/21 01:31	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 12:16	11/04/21 01:31	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	651		49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		11/03/21 11:37	11/04/21 18:39	1
Diesel Range Organics (Over C10-C28)	651		49.9		mg/Kg		11/03/21 11:37	11/04/21 18:39	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				11/03/21 11:37	11/04/21 18:39	1
	104		70 ₋ 130				11/03/21 11:37	11/04/21 18:39	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-8 (0-6)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 **REMOVED FROM ANALYSIS TABLE**

ANALYSIS TABLE

Result Qualifier

<0.00399 U

Lab Sample ID: 890-1502-99

Matrix: Solid

Sample Depth: 0 - 6

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4070		25.0		mg/Kg			11/07/21 04:15	5

Client Sample ID: SW-9 (0-6) Lab Sample ID: 890-1502-100 **REMOVED FROM** Date Collected: 10/26/21 00:00

Matrix: Solid

Sample Depth: 0 - 6

Analyte

Total BTEX

Date Received: 10/29/21 12:45

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/04/21 01:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/04/21 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				11/01/21 12:16	11/04/21 01:52	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/01/21 12:16	11/04/21 01:52	1

Analyte	Range Organics (DRO) (GC) Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			11/08/21 15:54	1

0.00399

MDL Unit

mg/Kg

Prepared

Analyzed

11/09/21 10:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 19:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 19:01	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/03/21 11:37	11/04/21 19:01	1
o-Terphenyl	112		70 ₋ 130				11/03/21 11:37	11/04/21 19:01	1

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2870		24.8		mg/Kg			11/07/21 04:23	5

Eurofins Xenco, Carlsbad

Dil Fac

11/10/2021

Client Sample ID: SW-10 (0-6)

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Lab Sample ID: 890-1502-101 **REMOVED FROM ANALYSIS TABLE**

Matrix: Solid

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:28	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:28	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:28	1
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.00399		mg/Kg		11/01/21 12:18	11/04/21 05:28	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:28	1
Xylenes, Total	<0.00399	U F2 F1	0.00399		mg/Kg		11/01/21 12:18	11/04/21 05:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:18	11/04/21 05:28	1
1,4-Difluorobenzene (Surr)	92		70 - 130				11/01/21 12:18	11/04/21 05:28	1
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range	<0.00399 e Organics (DR		0.00399		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Rango	e Organics (DR		0.00399 RL	MDL	mg/Kg Unit		Prepared	11/09/21 10:40 Analyzed	
• ***	e Organics (DR	O) (GC) Qualifier		MDL		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR) Result <49.9	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rango Analyte Total TPH Method: 8015B NM - Diesel Ran	e Organics (DR Result <49.9	O) (GC) Qualifier	RL	MDL	Unit mg/Kg	D	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rango Analyte Total TPH Method: 8015B NM - Diesel Rango Analyte	e Organics (DR Result <49.9	Qualifier U RO) (GC) Qualifier	RL 49.9		Unit mg/Kg			Analyzed 11/08/21 15:54	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result <49.9 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U *1	RL		Unit mg/Kg Unit		Prepared	Analyzed 11/08/21 15:54 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	e Organics (DR/Result <49.9 ge Organics (DR/Result <49.9	Qualifier U RO) (GC) Qualifier U*1	RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 11/03/21 13:15	Analyzed 11/08/21 15:54 Analyzed 11/04/21 11:05	Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DR/ Result 49.9 ge Organics (DI/ Result 449.9 449.9 449.9	Qualifier U RO) (GC) Qualifier U*1 U	RL 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 13:15 11/03/21 13:15	Analyzed 11/08/21 15:54 Analyzed 11/04/21 11:05 11/04/21 11:05	Dil Fac Dil Fac 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DR Result <49.9 ge Organics (DR Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U*1 U	RL 49.9 RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 13:15 11/03/21 13:15 11/03/21 13:15	Analyzed 11/08/21 15:54 Analyzed 11/04/21 11:05 11/04/21 11:05	Dil Fac Dil Fac 1 1 1

Client Sample ID: SW-11 (0-6)

Method: 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Sample Depth: 0 - 6

Analyte

Chloride

REMOVED FROM ANALYSIS TABLE

Result Qualifier

4090

Lab Sample ID: 890-1502-102

Analyzed

11/07/21 04:30

Matrix: Solid

Dil Fac

Method: 8021B - Volatile Organi	c Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 05:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 05:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				11/01/21 12:18	11/04/21 05:49	1

RL

25.2

MDL Unit

mg/Kg

D

Prepared

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-11 (0-6)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Sample Depth: 0 - 6 REMOVED FROM ANALYSIS TABLE

1060

Lab Sample ID: 890-1502-102

11/08/21 09:36

Matrix: Solid

, iiu

6

0

11

12

14

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130				11/01/21 12:18	11/04/21 05:49	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rand	ge Organics (D	RO) (GC)							
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/03/21 13:15	Analyzed 11/04/21 12:11	Dil Fac
Analyte	Result	Qualifier U *1		MDL		<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U *1	49.9	MDL	mg/Kg	<u>D</u>	11/03/21 13:15	11/04/21 12:11	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U *1	49.9	MDL	mg/Kg	<u>D</u>	11/03/21 13:15	11/04/21 12:11	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U *1 U	49.9	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15	11/04/21 12:11	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U *1 U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15	11/04/21 12:11 11/04/21 12:11 11/04/21 12:11	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U *1 U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared	11/04/21 12:11 11/04/21 12:11 11/04/21 12:11 Analyzed	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9 <49.9 <49.9 <49.9	Qualifier U *1 U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/04/21 12:11 11/04/21 12:11 11/04/21 12:11 Analyzed 11/04/21 12:11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: SW-12 (10)

Date Collected: 10/26/21 00:00

Lab Sample ID: 890-1502-103

Matrix: Solid

4.99

mg/Kg

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 10

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 06:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 06:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				11/01/21 12:18	11/04/21 06:09	1
1,4-Difluorobenzene (Surr)	113		70 - 130				11/01/21 12:18	11/04/21 06:09	1
Method: Total BTEX - Total B	ΓEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-12 (10)

Lab Sample ID: 890-1502-103 Date Collected: 10/26/21 00:00 Matrix: Solid Date Received: 10/29/21 12:45

Sample Depth: 10

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		11/03/21 13:15	11/04/21 12:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 12:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				11/03/21 13:15	11/04/21 12:32	1
o-Terphenyl	98		70 - 130				11/03/21 13:15	11/04/21 12:32	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		4.95		mg/Kg			11/08/21 09:46	1

Client Sample ID: SW-13 (15) Lab Sample ID: 890-1502-104 Matrix: Solid

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 06:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 06:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 06:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:18	11/04/21 06:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 06:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:18	11/04/21 06:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/01/21 12:18	11/04/21 06:29	1
1,4-Difluorobenzene (Surr)	110		70 - 130				11/01/21 12:18	11/04/21 06:29	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	96.1		50.0		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		11/03/21 13:15	11/04/21 12:55	1
Diesel Range Organics (Over C10-C28)	96.1		50.0		mg/Kg		11/03/21 13:15	11/04/21 12:55	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				11/03/21 13:15	11/04/21 12:55	1
o-Terphenyl	83		70 - 130				11/03/21 13:15	11/04/21 12:55	1

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-13 (15)

Lab Sample ID: 890-1502-104

Date Collected: 10/26/21 00:00 Matrix: Solid
Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1840		24.9		mg/Kg			11/08/21 09:57	5

Client Sample ID: SW-14 (15)

Lab Sample ID: 890-1502-105

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:50	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 06:50	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 06:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				11/01/21 12:18	11/04/21 06:50	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/01/21 12:18	11/04/21 06:50	1
- Method: Total BTEX - Total B	ΓEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
- Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.3		49.8		mg/Kg			11/08/21 15:54	

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		11/03/21 13:15	11/04/21 13:16	•
Diesel Range Organics (Over C10-C28)	56.3		49.8		mg/Kg		11/03/21 13:15	11/04/21 13:16	
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 13:15	11/04/21 13:16	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	107		70 - 130				11/03/21 13:15	11/04/21 13:16	
o-Terphenyl	106		70 - 130				11/03/21 13:15	11/04/21 13:16	1

Method: 300.0 - Anions, Ion Chroma	atography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185	5.00	mg/Kg			11/08/21 10:07	1

Lab Sample ID: 890-1502-106

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-15 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:10	
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:18	11/04/21 07:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:18	11/04/21 07:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	85		70 - 130				11/01/21 12:18	11/04/21 07:10	
1,4-Difluorobenzene (Surr)	57	S1-	70 - 130				11/01/21 12:18	11/04/21 07:10	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/09/21 10:40	
Method: 8015 NM - Diesel Range Analyte			RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/08/21 15:54	
Analyte	Result <50.0	Qualifier U RO) (GC)	50.0		mg/Kg		<u> </u>		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	<u>D</u>	Prepared	11/08/21 15:54 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg		<u> </u>	11/08/21 15:54	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U *1	50.0		mg/Kg		Prepared	11/08/21 15:54 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 ge Organics (Dige Result <50.0)	Qualifier U RO) (GC) Qualifier U *1	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/03/21 13:15	11/08/21 15:54 Analyzed 11/04/21 13:38	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 13:15 11/03/21 13:15	11/08/21 15:54 Analyzed 11/04/21 13:38 11/04/21 13:38	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 13:15 11/03/21 13:15 11/03/21 13:15	Analyzed 11/04/21 13:38 11/04/21 13:38	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U RO) (GC) Qualifier U *1 U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared	Analyzed 11/04/21 13:38 11/04/21 13:38 11/04/21 13:38 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/08/21 15:54 Analyzed 11/04/21 13:38 11/04/21 13:38 Analyzed 11/04/21 13:38	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/08/21 15:54 Analyzed 11/04/21 13:38 11/04/21 13:38 Analyzed 11/04/21 13:38	Dil Fac

Client Sample ID: SW-16 (15)

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:18	11/04/21 07:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:18	11/04/21 07:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				11/01/21 12:18	11/04/21 07:31	

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Lab Sample ID: 890-1502-107

Matrix: Solid

Lab Sample ID: 890-1502-107

Lab Sample ID: 890-1502-108

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-16 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile O	rganic Compou	nds (GC)	(Continued)
Michiga: OUL 1B Volume C	i gaino compou	1145 (55)	(Goillinaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108	70 - 130	11/01/21 12:18	11/04/21 07:31	1

Method: 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			11/09/21 10:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg				11/08/21 15:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U *1	49.8	mg/Kg		11/03/21 13:15	11/04/21 13:59	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		11/03/21 13:15	11/04/21 13:59	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/03/21 13:15	11/04/21 13:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106	70 - 130	11/03/21 13:1:	11/04/21 13:59	1
o-Terphenyl	105	70 - 130	11/03/21 13:1:	5 11/04/21 13:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170	4.96		mg/Kg			11/08/21 10:49	1

Client Sample ID: SW-17 (15)

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	• voiatile Organic	Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 07:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 07:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				11/01/21 12:18	11/04/21 07:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130				11/01/21 12:18	11/04/21 07:51	1

Mothod:	Total RTEY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		ma/Ka			11/09/21 10:40	1

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	ļ	D	Prepared	Analyzed	Dil Fac
Total TPH			55.1		50.0		mg/Kg				11/08/21 15:54	1

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Lab Sample ID: 890-1502-108

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-17 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

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		11/03/21 13:15	11/04/21 14:20	1
Diesel Range Organics (Over C10-C28)	55.1		50.0		mg/Kg		11/03/21 13:15	11/04/21 14:20	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/03/21 13:15	11/04/21 14:20	1
o-Terphenyl	97		70 - 130				11/03/21 13:15	11/04/21 14:20	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-18 (15) Lab Sample ID: 890-1502-109 Date Collected: 10/26/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Released to Imaging: 9/1/2023 3:11:42 PM

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 08:11	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 08:11	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 08:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 08:11	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 08:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 08:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/01/21 12:18	11/04/21 08:11	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/01/21 12:18	11/04/21 08:11	1
Method: 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			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		11/03/21 13:15	11/04/21 14:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 14:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 14:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				11/03/21 13:15	11/04/21 14:41	1
o-Terphenyl	103		70 - 130				11/03/21 13:15	11/04/21 14:41	1

Lab Sample ID: 890-1502-109

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-18 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	826		4.98		mg/Kg			11/08/21 11:10	1

Client Sample ID: SW-19 (15) Lab Sample ID: 890-1502-110 Matrix: Solid

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 08:32	
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 08:32	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 08:32	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:18	11/04/21 08:32	
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 08:32	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:18	11/04/21 08:32	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	88		70 - 130				11/01/21 12:18	11/04/21 08:32	
1,4-Difluorobenzene (Surr)	83		70 - 130				11/01/21 12:18	11/04/21 08:32	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX - -	<0.00396	U	0.00396		mg/Kg			11/09/21 10:40	•
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9		49.9		mg/Kg			11/08/21 15:54	
: Method: 8015B NM - Diesel Rang	no Organice (D	PO) (GC)							
_	je Organics (Di	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	Result <49.9	Qualifier U *1	RL 49.9	MDL	mg/Kg	<u>D</u>	Prepared 11/03/21 13:15	Analyzed 11/04/21 15:03	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U *1		MDL		<u>D</u>			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	MDL	mg/Kg	<u>D</u>	11/03/21 13:15	11/04/21 15:03	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9	U*1 U	49.9	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15	11/04/21 15:03 11/04/21 15:03	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 <49.9	U*1 U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15	11/04/21 15:03 11/04/21 15:03 11/04/21 15:03	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 <49.9 %Recovery	U*1 U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u> </u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared	11/04/21 15:03 11/04/21 15:03 11/04/21 15:03 Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 <49.9 <80.9 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00 <80.00	U *1 U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/04/21 15:03 11/04/21 15:03 11/04/21 15:03 Analyzed 11/04/21 15:03	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 <49.9 **Recovery 103 103 comatography -	U *1 U U Qualifier	49.9 49.9 49.9 Limits 70 - 130		mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/04/21 15:03 11/04/21 15:03 11/04/21 15:03 Analyzed 11/04/21 15:03	Dil Fa

Lab Sample ID: 890-1502-111

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-20 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 10:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 10:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 10:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 12:18	11/04/21 10:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 10:21	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 12:18	11/04/21 10:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/01/21 12:18	11/04/21 10:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/01/21 12:18	11/04/21 10:21	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range	•	O) (GC) Qualifier	RL	MDI	Unit	D	Drangrad	Analyzod	Dil Fac
Analyte				MDL		— Б	Prepared	Analyzed	
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		11/03/21 13:15	11/04/21 15:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 15:46	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 15:46	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/03/21 13:15	11/04/21 15:46	
o-Terphenyl	105		70 - 130				11/03/21 13:15	11/04/21 15:46	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Metriou. 300.0 - Amons, ion Cin	Jiliatograpily -	Oolubic							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-21 (15)

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 10:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 10:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 10:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 10:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 10:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 10:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				11/01/21 12:18	11/04/21 10:41	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-112

Matrix: Solid

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Job ID: 890-1502-1

Lab Sample ID: 890-1502-112

SDG: 212C-MD-02230

Client Sample ID: SW-21 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sa

ample Depth: 15		

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111	70 - 130	11/01/21 12:18	11/04/21 10:41	1

Method: 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			11/09/21 10:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result Qualifier	RL	MDL U	Jnit I	D	Prepared	Analyzed	Dil Fac
	Total TPH	154	49.9	m	ng/Kg			11/08/21 15:54	1

Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (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		11/03/21 13:15	11/04/21 16:07	1
Diesel Range Organics (Over C10-C28)	154		49.9	mg/Kg		11/03/21 13:15	11/04/21 16:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/03/21 13:15	11/04/21 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	76Recovery Qualifier	LIIIIII	Prepared	i Allalyzeu	DII Fac
1-Chlorooctane	107	70 - 130	11/03/21 13	11/04/21 16:07	1
o-Terphenyl	107	70 - 130	11/03/21 13	:15 11/04/21 16:07	1
Г., "					

Method: 300.0 - Anions	, Ion Chromatography - Soluble
Analyte	Result Qualifier

Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5770	50.1	mg/Kg			11/08/21 12:02	10

Client Sample ID: SW-22 (15) Lab Sample ID: 890-1502-113 **Matrix: Solid**

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:01	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:01	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 11:01	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 11:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/01/21 12:18	11/04/21 11:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/01/21 12:18	11/04/21 11:01	1

1,4-Difluorobenzene (Surr)	97	70 - 130	11/01/21 12:18	11/04/21 11:01	1
Mothod: Total RTEX - Total RTEX Cale	nulation				

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:58	1		
Marked 1945 NM Piecel Person Consults (PPO) (OO)											

Method: 8015 NM	- Diesel Range	Organics (DRO) (GC)
A b -t -		D I

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			11/08/21 15:54	1

Job ID: 890-1502-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-22 (15) Lab Sample ID: 890-1502-113

Date Collected: 10/26/21 00:00 Matrix: Solid Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 16:29	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 16:29	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				11/03/21 13:15	11/04/21 16:29	1
o-Terphenyl	108		70 - 130				11/03/21 13:15	11/04/21 16:29	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9240		49.8		mg/Kg			11/08/21 12:12	10

Client Sample ID: SW-23 (15) Lab Sample ID: 890-1502-114 Date Collected: 10/26/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 11:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 11:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 11:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:18	11/04/21 11:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 11:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:18	11/04/21 11:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/01/21 12:18	11/04/21 11:22	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 12:18	11/04/21 11:22	1
Method: 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			11/09/21 10:58	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		11/03/21 13:15	11/04/21 16:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 16:51	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/03/21 13:15	11/04/21 16:51	1
o-Terphenyl	101		70 - 130				11/03/21 13:15	11/04/21 16:51	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: SW-23 (15)

Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-114 Date Collected: 10/26/21 00:00

Matrix: Solid

Sample Depth: 15

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1070		4.96		mg/Kg			11/08/21 12:43	1

Client Sample ID: SW-24 (15) Lab Sample ID: 890-1502-115 Matrix: Solid

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:42	
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:42	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:42	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 11:42	
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:42	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 11:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	110		70 - 130				11/01/21 12:18	11/04/21 11:42	
1,4-Difluorobenzene (Surr)	114		70 - 130				11/01/21 12:18	11/04/21 11:42	
- Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:58	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	11	=						
		U	50.0		mg/Kg			11/08/21 15:54	
: Method: 8015B NM - Diesel Ranç	ge Organics (D		50.0		mg/Kg			11/08/21 15:54	
	•		8L	MDL		D	Prepared	11/08/21 15:54 Analyzed	Dil Fa
Analyte Gasoline Range Organics	Result	RO) (GC)		MDL		<u>D</u>	Prepared 11/03/21 13:15		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	RO) (GC) Qualifier U*1	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result < 50.0	RO) (GC) Qualifier U *1	RL	MDL	Unit mg/Kg	<u> </u>	11/03/21 13:15	Analyzed 11/04/21 17:14	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0	RO) (GC) Qualifier U *1	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15	Analyzed 11/04/21 17:14 11/04/21 17:14	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U*1 U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15	Analyzed 11/04/21 17:14 11/04/21 17:14 11/04/21 17:14	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0 <50.0 <50.0 <50.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80	RO) (GC) Qualifier U*1 U		MDL	Unit mg/Kg mg/Kg	<u> </u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared	Analyzed 11/04/21 17:14 11/04/21 17:14 11/04/21 17:14 Analyzed	Dil Fa
Surrogate	Result	RO) (GC) Qualifier U*1 U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	Analyzed 11/04/21 17:14 11/04/21 17:14 11/04/21 17:14 Analyzed 11/04/21 17:14	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	RO) (GC) Qualifier U*1 U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	Analyzed 11/04/21 17:14 11/04/21 17:14 11/04/21 17:14 Analyzed 11/04/21 17:14	Dil Fa

Lab Sample ID: 890-1502-116

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-25 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 12:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 12:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 12:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 12:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 12:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				11/01/21 12:18	11/04/21 12:03	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/01/21 12:18	11/04/21 12:03	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <49.8		49.8 —	MDL	mg/Kg	D	Prepared	Analyzed 11/08/21 15:54	Dil Fac
: Method: 8015B NM - Diesel Rang	ne Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		11/03/21 13:15	11/04/21 17:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 13:15	11/04/21 17:35	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 13:15	11/04/21 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/03/21 13:15	11/04/21 17:35	1
o-Terphenyl -	105		70 - 130				11/03/21 13:15	11/04/21 17:35	1
Method: 300.0 - Anions, Ion Chro									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	5920		49.9		mg/Kg			11/08/21 13:04	10

Client Sample ID: SW-26 (15)

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 12:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 12:23	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 12:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:18	11/04/21 12:23	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 12:23	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:18	11/04/21 12:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:18	11/04/21 12:23	1

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Lab Sample ID: 890-1502-117

Matrix: Solid

Lab Sample ID: 890-1502-117

Lab Sample ID: 890-1502-118

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-26 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Organic Compou	unds (GC) (Continued)
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Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96	70 - 130	11/01/21 12:18	11/04/21 12:23	1

Mothod:	Total RTEX	- Total BTE	Calculation
welliou.	TOTAL DIEV	- IUIAI DIE	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg				11/09/21 10:58	1

Method: 8015 NM - Diesel Range Org	janics (DRO) (GC)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			11/08/21 15:54	1

Method: 6015B MM - Diesei	Range Organics (DRO) (GC)
Analyto	Result Qualifier

Analyte	Result	Qualifier	KL	MDL	UIIIL	U	Prepareu	Analyzeu	DII Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 17:56	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 17:56	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104	70 - 130	11/03/21 13:15	11/04/21 17:56	1
o-Terphenyl	103	70 - 130	11/03/21 13:15	11/04/21 17:56	1

Method: 300.0 - Anions, Ion C	Chromatography - Soluble
	B 11 6 110

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	447		4.95		mg/Kg			11/08/21 13:15	1

Client Sample ID: SW-27 (15)

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Method	l: 8021B -	Volatile	Organic	Compounds (GC)

moniour cozina romanic organic	- ()								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00206		0.00201		mg/Kg		11/01/21 12:18	11/04/21 12:44	1
Toluene	0.00205		0.00201		mg/Kg		11/01/21 12:18	11/04/21 12:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 12:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:18	11/04/21 12:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 12:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:18	11/04/21 12:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				11/01/21 12:18	11/04/21 12:44	1
1,4-Difluorobenzene (Surr)	103		70 - 130				11/01/21 12:18	11/04/21 12:44	1

1,4-Dilluoroberizerie (Surr)	103	70 - 130	11/01/21 12.10	11/04/21 12
Method: Total BTEX - Total BTEX Calc	culation			

Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00411		0.00402		mg/Kg			11/09/21 10:58	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			11/08/21 15:54	1

Lab Sample ID: 890-1502-118

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-27 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

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		11/03/21 13:15	11/04/21 18:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 18:17	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 18:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/03/21 13:15	11/04/21 18:17	1
o-Terphenyl	97		70 - 130				11/03/21 13:15	11/04/21 18:17	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	9970	-	50.0		mg/Kg			11/08/21 13:25	10

Client Sample ID: SW-28 (15)

Date Collected: 10/26/21 00:00

Lab Sample ID: 890-1502-119

Matrix: Solid

Date Received: 10/29/21 12:45

Date Received. 10/25/21 12.4

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 13:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 13:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 13:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/01/21 12:18	11/04/21 13:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 13:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/01/21 12:18	11/04/21 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/01/21 12:18	11/04/21 13:04	1
1,4-Difluorobenzene (Surr)	107		70 - 130				11/01/21 12:18	11/04/21 13:04	1
Method: 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			11/09/21 10:58	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		11/03/21 13:15	11/04/21 18:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 18:39	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				11/03/21 13:15	11/04/21 18:39	1
o-Terphenyl	83		70 ₋ 130				11/03/21 13:15	11/04/21 18:39	1

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: SW-28 (15) Lab Sample ID: 890-1502-119 Date Collected: 10/26/21 00:00

Matrix: Solid

Sample Depth: 15

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	3280		25.0		mg/Kg			11/08/21 13:36	5

Client Sample ID: SW-29 (15) Lab Sample ID: 890-1502-120

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Date Received: 10/29/21 12:45

Matrix: Solid

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 03:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 03:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 03:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/04/21 11:11	11/05/21 03:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 03:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/04/21 11:11	11/05/21 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				11/04/21 11:11	11/05/21 03:36	1
1,4-Difluorobenzene (Surr)	215	S1+	70 - 130				11/04/21 11:11	11/05/21 03:36	1
- Method: Total BTEX - Total BT	EX Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:58	1
– Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang Analyte		RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8		49.8		mg/Kg	_ <u>-</u>	11/03/21 13:15	11/04/21 19:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 13:15	11/04/21 19:01	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 13:15	11/04/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	416		5.00		mg/Kg			11/08/21 13:46	1

70 - 130

70 - 130

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11/04/21 19:01

11/04/21 19:01

11/03/21 13:15

11/03/21 13:15

1-Chlorooctane

o-Terphenyl

Lab Sample ID: 890-1502-121

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-30 (RS) (6)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:40	
Toluene	<0.00200	U F1	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:40	•
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:40	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		11/01/21 11:07	11/01/21 23:40	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:40	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		11/01/21 11:07	11/01/21 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				11/01/21 11:07	11/01/21 23:40	
1,4-Difluorobenzene (Surr)	96		70 - 130				11/01/21 11:07	11/01/21 23:40	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:58	1
Analyte	Result	Qualifier	RL	MDI	Unit	D	Danamanad		
				WIDE			Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	WDL	mg/Kg	_ =	Prepared	11/08/21 15:54	
• •				MIDE			Prepared		
: Method: 8015B NM - Diesel Ran	ge Organics (D					<u>D</u>	Prepared		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg	=	<u> </u>	11/08/21 15:54	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg	=	Prepared	11/08/21 15:54 Analyzed	Dil Fac
5 5 ,	ge Organics (D Result <49.9	RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 11/03/21 13:58	11/08/21 15:54 Analyzed 11/04/21 10:53	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:58 11/03/21 13:58	11/08/21 15:54 Analyzed 11/04/21 10:53 11/04/21 10:53	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9 <49.9	RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:58 11/03/21 13:58 11/03/21 13:58	Analyzed 11/04/21 10:53 11/04/21 10:53 11/04/21 10:53	Dil Face 1 Dil Face 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:58 11/03/21 13:58 11/03/21 13:58 Prepared	Analyzed 11/04/21 10:53 11/04/21 10:53 11/04/21 10:53 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 90 108	RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:58 11/03/21 13:58 11/03/21 13:58 Prepared 11/03/21 13:58	Analyzed 11/04/21 10:53 11/04/21 10:53 11/04/21 10:53 Analyzed 11/04/21 10:53	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 90 108 omatography -	RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:58 11/03/21 13:58 11/03/21 13:58 Prepared 11/03/21 13:58	Analyzed 11/04/21 10:53 11/04/21 10:53 11/04/21 10:53 Analyzed 11/04/21 10:53	Dil Fac

Client Sample ID: SW-31 (RS) (4)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:07	11/02/21 00:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:07	11/02/21 00:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:07	11/02/21 00:00	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/01/21 11:07	11/02/21 00:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:07	11/02/21 00:00	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/01/21 11:07	11/02/21 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				11/01/21 11:07	11/02/21 00:00	1

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Lab Sample ID: 890-1502-122

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Matrix: Solid

Lab Sample ID: 890-1502-122

Lab Sample ID: 890-1502-123

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-31 (RS) (4)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 4

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95	70 - 130	11/01/21 11:07	11/02/21 00:00	1

Mathad:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/09/21 10:58	1

Method: 8015 NM - Diesel Range Organics	IUKU	11661

Analyte	Result	Qualifier	RL	MDL	Unit	D	ı	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg				11/08/21 15:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/03/21 13:58	11/04/21 11:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9	1	mg/Kg		11/03/21 13:58	11/04/21 11:55	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	I	mg/Kg		11/03/21 13:58	11/04/21 11:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Quaimer	Limits	Prepared	Anaryzea	DII Fac
1-Chlorooctane	86	70 - 130	11/03/21 13:58	11/04/21 11:55	1
o-Terphenyl	93	70 - 130	11/03/21 13:58	11/04/21 11:55	1
_					

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109	4.99		mg/Kg			11/09/21 14:53	1

Client Sample ID: SW-32 (RS) (6)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Commis Bonths 6

Sample Depth: 6

Mothod: 9021B	Volatile	Organic	Compounds (GC)
MICHIOU. OUZ ID •	voiatile v	Olualiic v	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:07	11/02/21 00:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:07	11/02/21 00:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:07	11/02/21 00:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 11:07	11/02/21 00:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:07	11/02/21 00:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 11:07	11/02/21 00:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				11/01/21 11:07	11/02/21 00:21	1
1,4-Difluorobenzene (Surr)	78		70 - 130				11/01/21 11:07	11/02/21 00:21	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:58	1

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0		mg/Kg			11/08/21 15:54	1

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Lab Sample ID: 890-1502-123

Client Sample Results

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-32 (RS) (6)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6									
Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/03/21 13:58 11/04/21 12:15									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/03/21 13:58	11/04/21 12:15	1
(GPO)_C6_C10									

<50.0 U 50.0 11/03/21 13:58 11/04/21 12:15 Diesel Range Organics (Over mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/03/21 13:58 11/04/21 12:15 %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate

70 - 130 11/03/21 13:58 11/04/21 12:15 1-Chlorooctane 84 o-Terphenyl 83 70 - 130 11/03/21 13:58 11/04/21 12:15

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride 582 5.00 mg/Kg 11/09/21 15:01

Client Sample ID: SW-33 (RS) (8) Lab Sample ID: 890-1502-124 Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Sample Depth: 8

Method: 8021B - Volatile Orga	anic Compounds (G	SC)							
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:07	11/02/21 00:41	1
Toluene	<0.00200 U	U	0.00200		mg/Kg		11/01/21 11:07	11/02/21 00:41	1
Ethylbenzene	<0.00200 U	U	0.00200		mg/Kg		11/01/21 11:07	11/02/21 00:41	1
m-Xylene & p-Xylene	<0.00401 U	U	0.00401		mg/Kg		11/01/21 11:07	11/02/21 00:41	1
o-Xylene	<0.00200 U	U	0.00200		mg/Kg		11/01/21 11:07	11/02/21 00:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 11:07	11/02/21 00:41	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 - 130 142 S1+ 11/01/21 11:07 11/02/21 00:41 1,4-Difluorobenzene (Surr) 98 70 - 130 11/01/21 11:07 11/02/21 00:41

Method: Total BTEX - Total BTEX Calculation

Dil Fac Analyte Result Qualifier MDL Unit Analyzed Prepared Total BTEX <0.00401 U 0.00401 11/09/21 10:58 mg/Kg

Method: 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 11/08/21 15:54 mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

motrical color itm. Blood italige	Ji gaimoo (Bi	(00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/03/21 13:58	11/04/21 12:36	1
` ,							11/00/01 10 50	11/01/01 10 00	
3 3 (<50.0	U	50.0		mg/Kg		11/03/21 13:58	11/04/21 12:36	1
,	-E0.0		F0.0		mall/a		11/02/21 12:50	11/04/01 10:26	4
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 13:58	11/04/21 12:30	1
	Analyte	Analyte Result Gasoline Range Organics <50.0 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 C10-C28)	Gasoline Range Organics <50.0 U (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U C10-C28)	Analyte Result Qualifier RL Gasoline Range Organics <50.0 U 50.0 (GRO)-C6-C10 U 50.0 Diesel Range Organics (Over C10-C28) <50.0 U 50.0	Analyte Result Qualifier RL MDL Gasoline Range Organics <50.0 U 50.0 (GRO)-C6-C10 U 50.0 Diesel Range Organics (Over C10-C28) <50.0 U 50.0	Analyte Result Qualifier RL MDL Unit Gasoline Range Organics <50.0 U 50.0 mg/Kg (GRO)-C6-C10 Oiesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) C10-C28) Output 50.0 mg/Kg	Analyte Result Qualifier RL MDL Unit D Gasoline Range Organics <50.0 U 50.0 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) C10-C28 C10-C28	Analyte Result Qualifier RL MDL Unit D Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/03/21 13:58 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 11/03/21 13:58 C10-C28) C10-C28 C1	Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/03/21 13:58 11/04/21 12:36 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 11/03/21 13:58 11/04/21 12:36 C10-C28) C10-C28

Surrogate	%Recovery Qualif	ier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80	70 - 130	11/03/21 13:58	11/04/21 12:36	1
o-Terphenyl	80	70 ₋ 130	11/03/21 13:58	11/04/21 12:36	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-33 (RS) (8) Lab Sample ID: 890-1502-124

Date Collected: 10/28/21 00:00

Matrix: Solid Date Received: 10/29/21 12:45

Sample Depth: 8

Method: 300.0 - Anions, Ion Chromatography - Soluble											
	Analyte	Result	Qualifier	RL	MDL	Unit	D		Prepared	Analyzed	Dil Fac
	Chloride	831	F1	5.04		mg/Kg				11/09/21 15:08	1

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	recent ourrogate recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1502-1	BH-1 (6)	118	73	
890-1502-1 MS	BH-1 (6)	111	105	
890-1502-1 MSD	BH-1 (6)	109	103	
890-1502-2	BH-2 (6)	120	98	
890-1502-3	BH-3 (6)	122	70	
890-1502-4	BH-4 (6)	124	67 S1-	
890-1502-5	BH-5 (6)	140 S1+	97	
890-1502-6	BH-6 (6)	136 S1+	104	
	· ·	123	97	
890-1502-7	BH-7 (6)			
890-1502-8	BH-8 (6)	146 S1+	69 S1-	
890-1502-9	BH-9 (6)	130	93	
890-1502-10	BH-10 (6)	136 S1+	105	
890-1502-11	BH-11 (6)	112	76	
890-1502-12	BH-12 (6)	137 S1+	98	
890-1502-13	BH-13 (6)	120	96	
890-1502-14	BH-14 (6)	130	95	
890-1502-15	BH-15 (6)	137 S1+	98	
890-1502-16	BH-16 (6)	110	82	
890-1502-17	BH-17 (6)	123	98	
890-1502-18	BH-18 (6)	127	98	
890-1502-19	BH-19 (6)	117	81	
890-1502-20	BH-20 (6)	113	94	
890-1502-21	BH-21 (6)	99	72	
890-1502-21 MS	BH-21 (6)	133 S1+	111	
890-1502-21 MSD	BH-21 (6)	113	104	
890-1502-22	BH-22 (6)	130	98	
890-1502-23	BH-23 (6)	116	100	
890-1502-24	BH-24 (6)	126	96	
890-1502-25	BH-25 (15)	122	97	
890-1502-26	BH-26 (15)	123	107	
890-1502-27	BH-27 (15)	112	85	
890-1502-27 890-1502-28	BH-28 (15)	121	104	
890-1502-29	BH-29 (15)	123	91	
890-1502-30	BH-30 (15)	71	70	
890-1502-31	BH-31 (15)	114	111	
890-1502-32	BH-32 (15)	86	93	
890-1502-33	BH-33 (15)	132 S1+	108	
890-1502-34	BH-34 (15)	124	100	
890-1502-35	BH-35 (15)	127	110	
890-1502-36	BH-36 (15)	128	109	
890-1502-37	BH-37 (15)	117	101	
890-1502-38	BH-38 (15)	129	118	
890-1502-39	BH-39 (15)	117	100	
890-1502-40	BH-40 (15)	115	100	
890-1502-41	BH-41 (15)	132 S1+	110	
890-1502-41 MS	BH-41 (15)	66 S1-	179 S1+	
890-1502-41 MSD	BH-41 (15)	70	216 S1+	
890-1502-42	BH-42 (15)	86	198 S1+	
890-1502-43	BH-43 (15)	88	215 S1+	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

Matrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1502-44	BH-44 (15)	99	211 S1+	
890-1502-45	BH-45 (15)	88	203 S1+	
890-1502-46	BH-46 (15)	102	226 S1+	
890-1502-47	BH-47 (15)	86	211 S1+	
890-1502-48	BH-48 (15)	94	220 S1+	
890-1502-49	BH-49 (15)	91	17 S1-	
890-1502-50	BH-50 (15)	11591	65 S1-	
	,	S1+		
890-1502-51	BH-51 (15)	112	199 S1+	
890-1502-52	BH-52 (15)	105	233 S1+	
890-1502-53	BH-53 (15)	114	99	
890-1502-53 MS	BH-53 (15)	124	100	
890-1502-53 MSD	BH-53 (15)	109	96	
890-1502-54	BH-54 (15)	90	202 S1+	
890-1502-55	BH-55 (15)	88	191 S1+	
890-1502-56	BH-56 (15)	116	115	
890-1502-57	BH-57 (15)	96	221 S1+	
890-1502-58	BH-58 (15)	112	243 S1+	
890-1502-59	BH-59 (15)	111	243 S1+	
890-1502-60	BH-60 (15)	13 S1-	230 S1+	
890-1502-61	BH-61 (15)	115	99	
890-1502-61 MS	BH-61 (15)	131 S1+	110	
890-1502-61 MSD	BH-61 (15)	134 S1+	100	
890-1502-62	BH-62 (15)	118	103	
890-1502-63	BH-63 (15)	124	102	
890-1502-64	BH-64 (15)	120	99	
890-1502-65	BH-65 (15)	134 S1+	101	
890-1502-66	BH-66 (15)	95	72	
890-1502-67	BH-67 (15)	115	100	
890-1502-68	BH-68 (15)	125	109	
890-1502-69	BH-69 (15)	129	103	
890-1502-70	BH-70 (15)	130	102	
890-1502-71	BH-71 (15)	116	97	
890-1502-72	BH-72 (15)	122	103	
890-1502-73	BH-73 (15)	130	102	
890-1502-74	BH-74 (15)	121	98	
890-1502-75	BH-75 (15)	88	79	
890-1502-76	BH-76 (15)	119	104	
890-1502-77	BH-77 (15)	82	71	
890-1502-78	BH-78 (15)	118	99	
890-1502-79	BH-79 (15)	129	104	
890-1502-80	BH-80 (15)	116	106	
890-1502-81	BH-81 (15)	80	69 S1-	
890-1502-81 MS	BH-81 (15)	118	103	
890-1502-81 MSD	BH-81 (15)	96	86	
890-1502-81 MSD	BH-82 (15)	105	83	
890-1502-83	BH-83 (15)	107	90	
890-1502-84	BH-84 (15)	126	101	
890-1502-64		114		
	BH-85 (15)		110	
890-1502-86	BH-86 (15)	115	100	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Barrant Original and Barran (1997)
		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
0-1502-87	BH-87 (15)	110	98	
-1502-88	BH-88 (15)	128	101	
-1502-89	BH-89 (15)	129	112	
-1502-90	BH90 (RS) (6)	128	126	
1502-91	BH-91 (RS) (6)	114	111	
-1502-91 -1502-92	SW-1 (0-6)	93	122	
-1502-92 -1502-93	SW-2 (0-6)	108	74	
)-1502-94 0.1502-05	SW-3 (0-6)	128	97 105	
-1502-95	SW-4 (0-6)	133 S1+	105	
-1502-96	SW-5 (0-6)	129	110	
1502-97	SW-6 (0-6)	112	98	
-1502-98	SW-7 (0-6)	114	96	
-1502-99	SW-8 (0-6)	119	104	
1502-100	SW-9 (0-6)	126	101	
-1502-101	SW-10 (0-6)	111	92	
-1502-101 MS	SW-10 (0-6)	123	99	
-1502-101 MSD	SW-10 (0-6)	123	101	
-1502-102	SW-11 (0-6)	113	88	
1502-103	SW-12 (10)	140 S1+	113	
1502-104	SW-13 (15)	123	110	
502-105	SW-14 (15)	135 S1+	108	
1502-106	SW-15 (15)	85	57 S1-	
1502-107	SW-16 (15)	129	108	
-1502-108	SW-17 (15)	122	105	
1502-109	SW-18 (15)	118	101	
1502-110	SW-19 (15)	88	83	
1502-111	SW-20 (15)	116	101	
502-112	SW-21 (15)	126	111	
1502-113	SW-22 (15)	116	97	
1502-114	SW-23 (15)	123	104	
-1502-115	SW-24 (15)	110	114	
1502-116	SW-25 (15)	134 S1+	108	
-1502-117	SW-26 (15)	118	96	
-1502-117	SW-27 (15)	121	103	
-1502-119	SW-28 (15)	128	107	
1502-119	SW-29 (15)	125	215 S1+	
-1502-120 -1502-121	SW-30 (RS) (6)	136 S1+	96	
0-1502-121 MS	SW-30 (RS) (6)	122	97 102	
0-1502-121 MSD	SW-30 (RS) (6)	114	103	
)-1502-122	SW-31 (RS) (4)	109	95	
-1502-123	SW-32 (RS) (6)	151 S1+	78	
-1502-124	SW-33 (RS) (8)	142 S1+	98	
-1520-A-1-B MS	Matrix Spike	101	103	
-1520-A-1-C MSD	Matrix Spike Duplicate	61 S1-	204 S1+	
S 880-11075/1-A	Lab Control Sample	113	101	
8 880-11076/1-A	Lab Control Sample	106	87	
S 880-11109/1-A	Lab Control Sample	113	103	
S 880-11111/1-A	Lab Control Sample	87	223 S1+	
3 880-11112/1-A	Lab Control Sample	112	103	
S 880-11109/1-A S 880-11111/1-A S 880-11112/1-A S 880-11113/1-A	Lab Control Sample Lab Control Sample	113 87	103 223 S1+	

Client: Tetra Tech, Inc.Job ID: 890-1502-1Project/Site: Kaiser SWDSDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Sample ID	Client Sample ID	(70-130)	(70-130)	
S 880-11114/1-A	Lab Control Sample	114	106	
S 880-11388/1-A	Lab Control Sample	129	85	
S 880-11445/1-A	Lab Control Sample	103	230 S1+	
880-11449/3	Lab Control Sample	94	190 S1+	
D 880-11075/2-A	Lab Control Sample Dup	107	106	
0 880-11076/2-A	Lab Control Sample Dup	108	97	
O 880-11109/2-A	Lab Control Sample Dup	128	103	
D 880-11112/2-A	Lab Control Sample Dup	121	106	
D 880-11113/2-A	Lab Control Sample Dup	116	107	
D 880-11114/2-A	Lab Control Sample Dup	112	107	
O 880-11388/2-A	Lab Control Sample Dup	105	102	
) 880-11445/2-A	Lab Control Sample Dup	82	234 S1+	
D 880-11449/4	Lab Control Sample Dup	95	198 S1+	
80-11021/5-A	Method Blank	106	101	
80-11075/5-A	Method Blank	120	97	
880-11076/5-A	Method Blank	115	93	
80-11109/5-A	Method Blank	120	106	
80-11111/5-A	Method Blank	58 S1-	189 S1+	
380-11112/5-A	Method Blank	117	106	
80-11113/5-A	Method Blank	117	107	
380-11114/5-A	Method Blank	116	105	
880-11207/5-A	Method Blank	107	71	
880-11258/5-A	Method Blank	54 S1-	182 S1+	
880-11388/5-A	Method Blank	96	99	
880-11445/5-A	Method Blank	65 S1-	196 S1+	
880-11449/8	Method Blank	63 S1-	187 S1+	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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			
LCSD 880-11111/2-A	Lab Control Sample Dup			
Surrogate Legend				
BFB = 4-Bromofluorobe	enzene (Surr)			
DFBZ = 1,4-Difluorober	nzene (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)	
890-1502-1	BH-1 (6)	108	118	
890-1502-1 MS	BH-1 (6)	122	114	
890-1502-1 MSD	BH-1 (6)	114	109	

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1502-2	BH-2 (6)	119	131 S1+	
890-1502-3	BH-3 (6)	105	117	
890-1502-4	BH-4 (6)	112	125	
890-1502-5	BH-5 (6)	104	117	
390-1502-6	BH-6 (6)	111	123	
390-1502-7	BH-7 (6)	103	115	
890-1502-8	BH-8 (6)	104	117	
890-1502-9	BH-9 (6)	111	122	
390-1502-10	BH-10 (6)	106	118	
890-1502-11	BH-11 (6)	109	123	
890-1502-12	BH-12 (6)	104	112	
890-1502-13	BH-13 (6)	103	116	
890-1502-14	BH-14 (6)	102	113	
890-1502-15	BH-15 (6)	111	123	
890-1502-16	BH-16 (6)	100	113	
890-1502-17	BH-17 (6)	102	113	
890-1502-18	BH-18 (6)	100	107	
890-1502-19	BH-19 (6)	105	115	
890-1502-20	BH-20 (6)	9 S1-	10 S1-	
890-1502-21	BH-21 (6)	103	123	
890-1502-21 MS	BH-21 (6)	89	94	
890-1502-21 MSD	BH-21 (6)	94	101	
890-1502-22	BH-22 (6)	103	117	
890-1502-23	BH-23 (6)	92	106	
890-1502-24	BH-24 (6)	109	123	
890-1502-25	BH-25 (15)	107	122	
890-1502-26	BH-26 (15)	102	119	
890-1502-27	BH-27 (15)	105	120	
890-1502-28	BH-28 (15)	104	120	
890-1502-29	BH-29 (15)	109	128	
890-1502-30	BH-30 (15)	115	136 S1+	
890-1502-31	BH-31 (15)	105	123	
890-1502-31		123	150 S1+	
	BH-32 (15)			
890-1502-33	BH-33 (15)	112	133 S1+	
890-1502-34	BH-34 (15)	124	152 S1+	
890-1502-35	BH-35 (15)	107	132 S1+	
890-1502-36	BH-36 (15)	95	110	
890-1502-37	BH-37 (15)	95	112	
890-1502-38	BH-38 (15)	95	117	
890-1502-39	BH-39 (15)	94	117	
890-1502-40	BH-40 (15)	91	110	
890-1502-41	BH-41 (15)	96	95	
890-1502-41 MS	BH-41 (15)	95	87	
890-1502-41 MSD	BH-41 (15)	96	87	
890-1502-42	BH-42 (15)	101	105	
890-1502-43	BH-43 (15)	94	93	
890-1502-44	BH-44 (15)	110	116	
890-1502-45	BH-45 (15)	107	112	
890-1502-46	BH-46 (15)	106	107	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

Matrix: Solid				Prep Type: Total/N/
				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1502-48	BH-48 (15)	111	111	
890-1502-49	BH-49 (15)	101	106	
890-1502-50	BH-50 (15)	114	119	
890-1502-51	BH-51 (15)	101	106	
890-1502-52	BH-52 (15)	101	103	
890-1502-53	BH-53 (15)	96	98	
890-1502-54	BH-54 (15)	99	100	
890-1502-55	BH-55 (15)	99	99	
890-1502-56	BH-56 (15)	106	113	
890-1502-57	BH-57 (15)	99	102	
890-1502-58	BH-58 (15)	93	93	
890-1502-59	BH-59 (15)	110	110	
890-1502-60	BH-60 (15)	88	87	
890-1502-61	BH-61 (15)	50 S1-	34 S1-	
890-1502-61 MS	BH-61 (15)	41 S1-	31 S1-	
890-1502-61 MSD	BH-61 (15)	75	61 S1-	
890-1502-62	BH-62 (15)	93	90	
890-1502-63	BH-63 (15)	95	95	
890-1502-64	BH-64 (15)	97	103	
890-1502-65	BH-65 (15)	99	107	
890-1502-66	BH-66 (15)	102	112	
890-1502-67	BH-67 (15)	102	110	
890-1502-68	BH-68 (15)	97	98	
890-1502-69		109	114	
890-1502-70	BH-69 (15) BH-70 (15)	97	103	
890-1502-71	BH-71 (15)	99	107	
890-1502-71	BH-72 (15)	115	128	
890-1502-73	BH-73 (15)	90	91	
890-1502-74	BH-74 (15)	98	102	
890-1502-74	BH-75 (15)	100	102	
890-1502-76	BH-76 (15)	93	96	
890-1502-77	BH-77 (15)	99	105	
890-1502-78	BH-78 (15)	108	112	
890-1502-79	BH-79 (15)	103	103	
890-1502-80	BH-80 (15)	109	122	
890-1502-81	BH-81 (15)	91	101	
890-1502-81 MS	BH-81 (15)	95	99	
890-1502-81 MSD	BH-81 (15)	95	97	
890-1502-82	BH-82 (15)	89	102	
890-1502-83	BH-83 (15)	91	105	
890-1502-84	BH-84 (15)	94	105	
890-1502-85	BH-85 (15)	93	106	
890-1502-86	BH-86 (15)	93	110	
890-1502-87	BH-87 (15)	93	110	
890-1502-88	BH-88 (15)	98	108	
890-1502-89	BH-89 (15)	92	107	
890-1502-90	BH90 (RS) (6)	94	112	
890-1502-91	BH-91 (RS) (6)	92	107	
890-1502-92	SW-1 (0-6)	90	106	
890-1502-93	SW-2 (0-6)	89	106	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Develop Commence Description (Assessment 11 11 11 11
		1CO1	OTPH1	Percent Surrogate Recovery (Acceptance Limits)
₋ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-1502-94	SW-3 (0-6)	89	106	
90-1502-95	SW-4 (0-6)	90	107	
90-1502-96	SW-5 (0-6)	102	122	
90-1502-96 90-1502-97		89	98	
90-1502-97 90-1502-98	SW-6 (0-6)	91	109	
	SW-7 (0-6)			
90-1502-99	SW-8 (0-6)	91	104	
90-1502-100	SW-9 (0-6)	94	112	
90-1502-101	SW-10 (0-6)	100	100	
90-1502-101 MS	SW-10 (0-6)	101	93	
90-1502-101 MSD	SW-10 (0-6)	109	97	
90-1502-102	SW-11 (0-6)	106	104	
90-1502-103	SW-12 (10)	101	98	
90-1502-104	SW-13 (15)	86	83	
90-1502-105	SW-14 (15)	107	106	
90-1502-106	SW-15 (15)	102	100	
90-1502-107	SW-16 (15)	106	105	
90-1502-108	SW-17 (15)	97	97	
90-1502-109	SW-18 (15)	103	103	
90-1502-110	SW-19 (15)	103	103	
90-1502-111	SW-20 (15)	104	105	
90-1502-112	SW-21 (15)	107	107	
90-1502-113	SW-22 (15)	106	108	
90-1502-114	SW-23 (15)	104	101	
90-1502-115	SW-24 (15)	107	106	
90-1502-116	SW-25 (15)	104	105	
90-1502-117	SW-26 (15)	104	103	
90-1502-118	SW-27 (15)	99	97	
90-1502-119	SW-28 (15)	90	83	
90-1502-120	SW-29 (15)	103	99	
90-1502-121	SW-30 (RS) (6)	90	108	
90-1502-121 MS	SW-30 (RS) (6)	100	92	
90-1502-121 MSD	SW-30 (RS) (6)	92	84	
90-1502-121 WSB	SW-31 (RS) (4)	86	93	
		84	83	
90-1502-123	SW-32 (RS) (6)			
90-1502-124	SW-33 (RS) (8)	80	80	
CS 880-11223/2-A	Lab Control Sample	116	109	
CS 880-11255/2-A	Lab Control Sample	98	106	
CS 880-11273/2-A	Lab Control Sample	84	80	
CS 880-11356/2-A	Lab Control Sample	103	100	
CS 880-11364/2-A	Lab Control Sample	81	89	
CS 880-11375/2-A	Lab Control Sample	102	99	
CS 880-11376/2-A	Lab Control Sample	108	88	
CSD 880-11223/3-A	Lab Control Sample Dup	113	106	
CSD 880-11255/3-A	Lab Control Sample Dup	100	108	
CSD 880-11273/3-A	Lab Control Sample Dup	87	85	
CSD 880-11356/3-A	Lab Control Sample Dup	87	84	
CSD 880-11364/3-A	Lab Control Sample Dup	89	97	
.CSD 880-11375/3-A	Lab Control Sample Dup	92	85	
CSD 880-11376/3-A	Lab Control Sample Dup	103	95	
MB 880-11223/1-A	Method Blank	108	113	

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

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)	
MB 880-11255/1-A	Method Blank	98	115	
MB 880-11273/1-A	Method Blank	100	103	
MB 880-11356/1-A	Method Blank	110	109	
MB 880-11364/1-A	Method Blank	99	115	
MB 880-11375/1-A	Method Blank	112	123	
MB 880-11376/1-A	Method Blank	89	94	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11021/5-A

Matrix: Solid Analysis Batch: 11022 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11021

1

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 12:08	•
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 12:08	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 12:08	•
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 08:33	11/01/21 12:08	
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 12:08	•
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 08:33	11/01/21 12:08	•

MB MB

MR MR

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	_	11/01/21 08:33	11/01/21 12:08	1
1,4-Difluorobenzene (Surr)	101		70 - 130		11/01/21 08:33	11/01/21 12:08	1

MDL Unit

Lab Sample ID: MB 880-11075/5-A

Matrix: Solid

Analyte

Analysis Batch: 11206

Client Sample ID: Method Blank Prep Type: Total/NA

Analyzed

Prepared

Prep Batch: 11075

Dil Fac

Benzene	<0.00200 L	J 0.00200	mg/Kg	11/01/21 11:05	11/03/21 00:26	
Toluene	<0.00200 L	J 0.00200	mg/Kg	11/01/21 11:05	11/03/21 00:26	
Ethylbenzene	<0.00200 L	J 0.00200	mg/Kg	11/01/21 11:05	11/03/21 00:26	
m-Xylene & p-Xylene	<0.00400 L	J 0.00400	mg/Kg	11/01/21 11:05	11/03/21 00:26	
o-Xylene	<0.00200 L	J 0.00200	mg/Kg	11/01/21 11:05	11/03/21 00:26	
Xylenes, Total	<0.00400 L	J 0.00400	mg/Kg	11/01/21 11:05	11/03/21 00:26	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/01/21 11:05	11/03/21 00:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/01/21 11:05	11/03/21 00:26	1

Lab Sample ID: LCS 880-11075/1-A

Matrix: Solid

o-Xylene

Analysis Batch: 11206

Client Sample ID: Lab Control Sample

70 - 130

93

Prep Type: Total/NA Prep Batch: 11075

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07732 mg/Kg 77 70 - 130 Toluene 0.100 0.07602 mg/Kg 76 70 - 130 Ethylbenzene 0.100 0.07511 mg/Kg 75 70 - 130 0.200 77 m-Xylene & p-Xylene 0.1537 mg/Kg 70 - 130

0.09253

mg/Kg

0.100

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-11075/2-A

Matrix: Solid

Analysis Batch: 11206

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11075

	Spike	FC2D	LC2D				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09604		mg/Kg		96	70 - 130	22	35

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-11075/2-A **Matrix: Solid**

Analysis Batch: 11206

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 11075

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08281		mg/Kg		83	70 - 130	9	35
Ethylbenzene	0.100	0.08382		mg/Kg		84	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1739		mg/Kg		87	70 - 130	12	35
o-Xylene	0.100	0.09914		mg/Kg		99	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-1502-1 MS

Matrix: Solid

Analysis Batch: 11206

Client Sample ID: BH-1 (6) Prep Type: Total/NA

Prep Batch: 11075

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F1	0.101	0.06514	F1	mg/Kg		65	70 - 130	
Toluene	<0.00199	U F1	0.101	0.05844	F1	mg/Kg		58	70 - 130	
Ethylbenzene	<0.00199	U F1	0.101	0.06080	F1	mg/Kg		60	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.06489	F1	mg/Kg		32	70 - 130	
o-Xylene	<0.00199	U	0.101	0.07557		mg/Kg		74	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 890-1502-1 MSD

Matrix: Solid

Analysis Batch: 11206

Client Sample ID: BH-1 (6)

Prep Type: Total/NA

Prep Batch: 11075

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F1	0.0996	0.07109		mg/Kg		71	70 - 130	9	35
Toluene	< 0.00199	U F1	0.0996	0.06473	F1	mg/Kg		65	70 - 130	10	35
Ethylbenzene	< 0.00199	U F1	0.0996	0.06748	F1	mg/Kg		68	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.07381	F1	mg/Kg		37	70 - 130	13	35
o-Xylene	< 0.00199	U	0.0996	0.08065		mg/Kg		80	70 - 130	7	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: MB 880-11076/5-A

Matrix: Solid

Analysis Batch: 11022

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11076

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 11:07	11/01/21 23:18	1

Eurofins Xenco, Carlsbad

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued) Lab Sample ID: MB 880-11076/5-A

Matrix: Solid

Analysis Batch: 11022

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11076

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg	 11	1/01/21 11:07	11/01/21 23:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	11	1/01/21 11:07	11/01/21 23:18	1

MR MR

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	11/01/21 11:07	11/01/21 23:18	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/01/21 11:07	11/01/21 23:18	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-11076/1-A **Matrix: Solid**

Analysis Batch: 11022

Prep Type: Total/NA

Prep Batch: 11076

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07785		mg/Kg		78	70 - 130	
Toluene	0.100	0.07783		mg/Kg		78	70 - 130	
Ethylbenzene	0.100	0.08142		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	0.200	0.1672		mg/Kg		84	70 - 130	
o-Xylene	0.100	0.08586		mg/Kg		86	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	87	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11076

Lab Sample ID: LCSD 880-11076/2-A Matrix: Solid

Analysis Batch: 11022

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08048		mg/Kg		80	70 - 130	3	35
Toluene	0.100	0.07699		mg/Kg		77	70 - 130	1	35
Ethylbenzene	0.100	0.07972		mg/Kg		80	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1619		mg/Kg		81	70 - 130	3	35
o-Xylene	0.100	0.08493		mg/Kg		85	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Quali	fier Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1.4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-1502-121 MS Client Sample ID: SW-30 (RS) (6)

Matrix: Solid

Analysis Batch: 11022

Prep Type: Total/NA

Prep Batch: 11076

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.0990	0.04100	F1	mg/Kg		41	70 - 130	
Toluene	<0.00200	U F1	0.0990	0.04297	F1	mg/Kg		43	70 - 130	
Ethylbenzene	<0.00200	U F1	0.0990	0.04022	F1	mg/Kg		41	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1	0.198	0.09185	F1	mg/Kg		46	70 - 130	
o-Xylene	<0.00200	U F1	0.0990	0.04676	F1	mg/Kg		47	70 - 130	

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1502-121 MS

Matrix: Solid

Analysis Batch: 11022

Client Sample ID: SW-30 (RS) (6) Prep Type: Total/NA

Prep Batch: 11076

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 122 70 - 130 1,4-Difluorobenzene (Surr) 97 70 - 130

MS MS

Client Sample ID: SW-30 (RS) (6) Lab Sample ID: 890-1502-121 MSD

Matrix: Solid

Analysis Batch: 11022

Analysis Batch: 11221

Prep Type: Total/NA

Prep Batch: 11076

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0996	0.05695	F1	mg/Kg		57	70 - 130	33	35
Toluene	<0.00200	U F1	0.0996	0.05604	F1	mg/Kg		56	70 - 130	26	35
Ethylbenzene	<0.00200	U F1	0.0996	0.05757	F1	mg/Kg		58	70 - 130	35	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1165	F1	mg/Kg		59	70 - 130	24	35
o-Xylene	<0.00200	U F1	0.0996	0.06067	F1	mg/Kg		61	70 - 130	26	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-11109/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 11109

MR MR

	IND	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 17:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 17:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 17:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/02/21 17:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 17:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/02/21 17:47	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/01/21 1	12:05	11/02/21 17:47	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/01/21 1	12:05	11/02/21 17:47	1

Lab Sample ID: LCS 880-11109/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 11221

Prep Type: Total/NA
Prep Batch: 11109

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09326		mg/Kg		93	70 - 130	
Toluene	0.100	0.09333		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.1039		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.2053		mg/Kg		103	70 - 130	
o-Xylene	0.100	0.09913		mg/Kg		99	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	113	70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-11109/1-A **Matrix: Solid**

Analysis Batch: 11221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11109

LCS LCS

%Recovery Qualifier Surrogate Limits 1,4-Difluorobenzene (Surr) 103 70 - 130

Lab Sample ID: LCSD 880-11109/2-A

Matrix: Solid

Analysis Batch: 11221

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11109

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1108		mg/Kg		111	70 - 130	17	35
Toluene	0.100	0.1179		mg/Kg		118	70 - 130	23	35
Ethylbenzene	0.100	0.1173		mg/Kg		117	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2363		mg/Kg		118	70 - 130	14	35
o-Xylene	0.100	0.1143		mg/Kg		114	70 - 130	14	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-1502-21 MS Client Sample ID: BH-21 (6)

Matrix: Solid

Analysis Batch: 11221

Prep Type: Total/NA

Prep Batch: 11109

Result	Qualifier	Added	D 14						
		Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00202	U F1 F2	0.100	0.05197	F1	mg/Kg		51	70 - 130	
<0.00202	U	0.100	0.07531		mg/Kg		74	70 - 130	
<0.00202	U F1	0.100	0.06742	F1	mg/Kg		67	70 - 130	
<0.00403	U F1	0.200	0.1125	F1	mg/Kg		56	70 - 130	
<0.00202	U F1	0.100	0.06405	F1	mg/Kg		64	70 - 130	
	<0.00202 <0.00202 <0.00403	<0.00202 U F1 F2 <0.00202 U <0.00202 U F1 <0.00403 U F1 <0.00202 U F1	<0.00202 U 0.100 <0.00202 U F1 0.100 <0.00403 U F1 0.200	<0.00202	<0.00202 U 0.100 0.07531 <0.00202 U F1 0.100 0.06742 F1 <0.00403 U F1 0.200 0.1125 F1	<0.00202	<0.00202 U 0.100 0.07531 mg/Kg <0.00202 U F1 0.100 0.06742 F1 mg/Kg <0.00403 U F1 0.200 0.1125 F1 mg/Kg	<0.00202	<0.00202 U

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1.4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 890-1502-21 MSD Client Sample ID: BH-21 (6)

Matrix: Solid

Analysis Batch: 11221

Prep Type: Total/NA

Prep Batch: 11109

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1 F2	0.101	0.08364	F2	mg/Kg		82	70 - 130	47	35
Toluene	<0.00202	U	0.101	0.07898		mg/Kg		78	70 - 130	5	35
Ethylbenzene	<0.00202	U F1	0.101	0.06977	F1	mg/Kg		69	70 - 130	3	35
m-Xylene & p-Xylene	<0.00403	U F1	0.202	0.1359	F1	mg/Kg		67	70 - 130	19	35
o-Xylene	<0.00202	U F1	0.101	0.06888	F1	mg/Kg		68	70 - 130	7	35

MSD MSD

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-11111/5-A

Matrix: Solid Analysis Batch: 11259 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 11111

MD MD

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 01:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 01:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 01:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 01:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 01:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 01:52	1

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 58 S1-70 - 130 11/01/21 12:11 11/04/21 01:52 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 189 S1+ 70 - 130 11/01/21 12:11 11/04/21 01:52

Lab Sample ID: LCS 880-11111/1-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA

Analysis Batch: 11259

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1068 mg/Kg 107 70 - 130 Toluene 0.100 0.1000 mg/Kg 100 70 - 130 Ethylbenzene 0.100 0.08895 mg/Kg 89 70 - 130 m-Xylene & p-Xylene 0.200 0.1848 mg/Kg 92 70 - 130 o-Xylene 0.100 0.1111 mg/Kg 111 70 - 130

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 87 70 - 130 1,4-Difluorobenzene (Surr) 223 S1+

Lab Sample ID: LCSD 880-11111/2-A

Matrix: Solid

Analysis Batch: 11259

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 11111

Prep Batch: 11111

%Rec. RPD
Rec Limits RPD Limit
Rec Limits RPD

LCSD LCSD

%Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-1502-41 MS Client Sample ID: BH-41 (15)

Matrix: Solid

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Analysis Batch: 11259									Pre	p Batch: 11111
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F2 F1	0.101	0.01309	F1	mg/Kg		12	70 - 130	
Toluene	<0.00200	U F2 F1	0.101	0.005176	F1	mg/Kg		4	70 - 130	

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1502-41 MS Client Sample ID: BH-41 (15) **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 11259 Prep Batch: 11111 Sample Sample Snike MS MS %Rec.

		-up.o							,0.1001
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00200	U F2 F1	0.101	0.006767	F1	mg/Kg		6	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.202	<0.00403	U F1	mg/Kg		0	70 - 130
o-Xylene	<0.00200	U F2 F1	0.101	0.01517	F1	mg/Kg		14	70 - 130

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 66 S1-1,4-Difluorobenzene (Surr) 179 S1+ 70 - 130

Lab Sample ID: 890-1502-41 MSD Client Sample ID: BH-41 (15) **Matrix: Solid** Prep Type: Total/NA Prep Batch: 11111

Analysis Batch: 11259

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier RPD Limit Analyte babbA Result Qualifier %Rec Limits Unit Benzene <0.00200 U F2 F1 0.0994 0.02353 F2 F1 mg/Kg 23 70 - 130 57 35 Toluene <0.00200 U F2 F1 0.0994 0.01239 F2 F1 mg/Kg 12 70 - 130 82 35 Ethylbenzene <0.00200 U F2 F1 0.0994 0.01841 F2 F1 18 70 - 130 92 35 mg/Kg 0.199 NC m-Xylene & p-Xylene <0.00399 UF1 0.006042 F1 mg/Kg 3 70 - 130 35 0.0994 0.03039 F2 F1 30 70 - 130 o-Xylene <0.00200 U F2 F1 mg/Kg 67

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 70 1,4-Difluorobenzene (Surr) 70 - 130 216 S1+

Lab Sample ID: MB 880-11112/5-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid Analysis Batch: 11221

Prep Batch: 11112 MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 05:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 05:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 05:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:13	11/03/21 05:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 05:19	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		11/01/21 12:13	11/03/21 05:19	1

	MB M	IB			
Surrogate	%Recovery Q	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117	70 - 130	11/01/21 12:13	11/03/21 05:19	1
1.4-Difluorobenzene (Surr)	106	70 - 130	11/01/21 12:13	11/03/21 05:19	1

Lab Sample ID: LCS 880-11112/1-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 11221

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08714		mg/Kg		87	70 - 130	
Toluene	0.100	0.09081		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09455		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1857		mg/Kg		93	70 - 130	

Eurofins Xenco, Carlsbad

Prep Batch: 11112

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-11112/1-A

Matrix: Solid

Analysis Batch: 11221

Spike

LCS LCS

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11112

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-11112/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid
Analysis Batch: 11221
Prep Batch: 11112

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09459		mg/Kg		95	70 - 130	8	35
Toluene	0.100	0.09920		mg/Kg		99	70 - 130	9	35
Ethylbenzene	0.100	0.1011		mg/Kg		101	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1972		mg/Kg		99	70 - 130	6	35
o-Xylene	0.100	0.09839		mg/Kg		98	70 - 130	6	35

	LCSD		
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-1502-61 MS

Client Sample ID: BH-61 (15)

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 11221 Prep Batch: 11112

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F1 F2	0.100	0.02127	F1	mg/Kg		21	70 - 130	
Toluene	< 0.00199	U F1 F2	0.100	0.03376	F1	mg/Kg		32	70 - 130	
Ethylbenzene	< 0.00199	U F1 F2	0.100	0.03579	F1	mg/Kg		36	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.06567	F1	mg/Kg		33	70 - 130	
o-Xylene	< 0.00199	U F1 F2	0.100	0.03476	F1	mg/Kg		34	70 - 130	

	MS			
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	
1,4-Difluorobenzene (Surr)	110		70 - 130	

Lab Sample ID: 890-1502-61 MSD Client Sample ID: BH-61 (15)

Matrix: Solid
Analysis Batch: 11221
Prep Type: Total/NA
Prep Batch: 11112

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F1 F2	0.0998	0.05929	F1 F2	mg/Kg		59	70 - 130	94	35
Toluene	<0.00199	U F1 F2	0.0998	0.06669	F1 F2	mg/Kg		65	70 - 130	66	35
Ethylbenzene	<0.00199	U F1 F2	0.0998	0.07404	F2	mg/Kg		74	70 - 130	70	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1347	F1 F2	mg/Kg		67	70 - 130	69	35
o-Xylene	< 0.00199	U F1 F2	0.0998	0.07123	F2	mg/Kg		71	70 - 130	69	35

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Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1502-61 MSD

Matrix: Solid

Analysis Batch: 11221

Client Sample ID: BH-61 (15)

Prep Type: Total/NA

Prep Batch: 11112

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 134 S1+ 70 - 130 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: MB 880-11113/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 11374

Prep Type: Total/NA

Prep Batch: 11113

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <0.00200 U 0.00200 11/01/21 12:16 11/03/21 17:26 Benzene mg/Kg Toluene <0.00200 U 0.00200 11/01/21 12:16 11/03/21 17:26 mg/Kg <0.00200 U 0.00200 11/01/21 12:16 11/03/21 17:26 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 11/01/21 12:16 11/03/21 17:26 o-Xylene <0.00200 U 0.00200 mg/Kg 11/01/21 12:16 11/03/21 17:26 Xylenes, Total <0.00400 U 0.00400 mg/Kg 11/01/21 12:16 11/03/21 17:26

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117	70 - 130	11/01/21 12:16	11/03/21 17:26	1
1,4-Difluorobenzene (Surr)	107	70 - 130	11/01/21 12:16	11/03/21 17:26	1

Lab Sample ID: LCS 880-11113/1-A

Matrix: Solid

Analysis Batch: 11374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11113

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09035		mg/Kg		90	70 - 130	
Toluene	0.100	0.09580		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.1041		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.1993		mg/Kg		100	70 - 130	
o-Xylene	0.100	0.09761		mg/Kg		98	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: LCSD 880-11113/2-A

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Matrix: Solid

Analysis Batch: 11374

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11113

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09227		mg/Kg		92	70 - 130	2	35
Toluene	0.100	0.09735		mg/Kg		97	70 - 130	2	35
Ethylbenzene	0.100	0.1026		mg/Kg		103	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1995		mg/Kg		100	70 - 130	0	35
o-Xylene	0.100	0.09796		mg/Kg		98	70 - 130	0	35

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 116 70 - 130

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-11113/2-A

Matrix: Solid

Analysis Batch: 11374

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11113

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1,4-Difluorobenzene (Surr) 107 70 - 130

Lab Sample ID: 890-1502-81 MS Client Sample ID: BH-81 (15)

Matrix: Solid

Analysis Batch: 11374

Prep Type: Total/NA

Prep Batch: 11113

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F2 F1	0.0990	0.08474		mg/Kg		85	70 - 130	
Toluene	<0.00199	U F2 F1	0.0990	0.09027		mg/Kg		89	70 - 130	
Ethylbenzene	<0.00199	U F2 F1	0.0990	0.09777		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.1912		mg/Kg		96	70 - 130	
o-Xylene	< 0.00199	U F2 F1	0.0990	0.09409		mg/Kg		95	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-1502-81 MSD Client Sample ID: BH-81 (15)

Matrix: Solid

Analysis Batch: 11374

Prep Type: Total/NA

Prep Batch: 11113

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.100	0.04227	F2 F1	mg/Kg		41	70 - 130	67	35
Toluene	<0.00199	U F2 F1	0.100	0.04380	F2 F1	mg/Kg		42	70 - 130	69	35
Ethylbenzene	<0.00199	U F2 F1	0.100	0.05968	F2 F1	mg/Kg		58	70 - 130	48	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.201	0.1091	F2 F1	mg/Kg		53	70 - 130	55	35
o-Xylene	<0.00199	U F2 F1	0.100	0.04780	F2 F1	mg/Kg		48	70 - 130	65	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1.4-Difluorobenzene (Surr)	86	70 - 130

Lab Sample ID: MB 880-11114/5-A

Matrix: Solid

Analysis Batch: 11374

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 11114

мв мв Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene 0.00200 11/01/21 12:18 11/04/21 05:00 <0.00200 U mg/Kg 11/01/21 12:18 Toluene <0.00200 U 0.00200 mg/Kg 11/04/21 05:00 Ethylbenzene <0.00200 U 0.00200 mg/Kg 11/01/21 12:18 11/04/21 05:00 <0.00400 U 0.00400 11/01/21 12:18 11/04/21 05:00 m-Xylene & p-Xylene mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 11/01/21 12:18 11/04/21 05:00 <0.00400 U 0.00400 11/01/21 12:18 11/04/21 05:00 Xylenes, Total mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/01/21 12:18	11/04/21 05:00	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/01/21 12:18	11/04/21 05:00	1

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Job ID: 890-1502-1 SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-11114/1-A

Matrix: Solid

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Analysis Batch: 11374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 11114

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09032		mg/Kg		90	70 - 130	
Toluene	0.100	0.09084		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09641		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.1881		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09302		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11114

Prep Batch: 11114

Lab Sample ID: LCSD 880-11114/2-A **Matrix: Solid**

Analysis Batch: 11374

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08744		mg/Kg		87	70 - 130	3	35
Toluene	0.100	0.09130		mg/Kg		91	70 - 130	1	35
Ethylbenzene	0.100	0.09282		mg/Kg		93	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1809		mg/Kg		90	70 - 130	4	35
o-Xylene	0.100	0.09153		mg/Kg		92	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: 890-1502-101 MS Client Sample ID: SW-10 (0-6) Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 11374

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	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F2 F1	0.100	0.05871	F1	mg/Kg		58	70 - 130	
Toluene	<0.00200	U F2 F1	0.100	0.06635	F1	mg/Kg		66	70 - 130	
Ethylbenzene	<0.00200	U F2 F1	0.100	0.07485		mg/Kg		75	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.200	0.1433		mg/Kg		72	70 - 130	
o-Xylene	<0.00200	U F2 F1	0.100	0.07000	F1	mg/Kg		69	70 - 130	

MS MS

Surrogate	%Recovery Qualific	er Limits
4-Bromofluorobenzene (Surr)	123	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 890-1502-101 MSD Client Sample ID: SW-10 (0-6)

Matrix: Solid

nalveis Batch: 11374

Analysis Batch: 11374									Prep	Batch:	11114
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F2 F1	0.100	0.04046	F2 F1	mg/Kg		39	70 - 130	37	35
Toluene	<0.00200	U F2 F1	0.100	0.04350	F2 F1	mg/Kg		43	70 - 130	42	35
Ethylbenzene	<0.00200	U F2 F1	0.100	0.04739	F2 F1	mg/Kg		47	70 - 130	45	35

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Prep Type: Total/NA

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1502-101 MSD Client Sample ID: SW-10 (0-6) Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 11374									Prep	Batch:	11114
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.200	0.09484	F2 F1	mg/Kg		47	70 - 130	41	35
o-Xylene	<0.00200	U F2 F1	0.100	0.04771	F2 F1	mg/Kg		47	70 - 130	38	35

MSD MSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 70 - 130 123 1,4-Difluorobenzene (Surr) 101 70 - 130

MB MB

MR MR

мв мв

Lab Sample ID: MB 880-11207/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 11206

Prep Type: Total/NA Prep Batch: 11207

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/21 09:20	11/02/21 13:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/21 09:20	11/02/21 13:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/21 09:20	11/02/21 13:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/02/21 09:20	11/02/21 13:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/21 09:20	11/02/21 13:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/02/21 09:20	11/02/21 13:33	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 107 70 - 130 11/02/21 09:20 11/02/21 13:33 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 71 70 - 130 11/02/21 09:20 11/02/21 13:33

Lab Sample ID: MB 880-11258/5-A

Matrix: Solid

Analysis Batch: 11259

	Client Sample ID: Method Blank
	Prep Type: Total/NA
	Prep Batch: 11258
MB MB	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/21 15:13	11/03/21 12:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/21 15:13	11/03/21 12:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/21 15:13	11/03/21 12:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/02/21 15:13	11/03/21 12:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/21 15:13	11/03/21 12:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/02/21 15:13	11/03/21 12:01	1

	IVID	INID				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130	11/02/21 15:13	11/03/21 12:01	1
1,4-Difluorobenzene (Surr)	182	S1+	70 - 130	11/02/21 15:13	11/03/21 12:01	1

Lab Sample ID: MB 880-11388/5-A

Matrix: Solid

Analysis Batch: 11420

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 11388

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/04/21 08:30	11/04/21 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/04/21 08:30	11/04/21 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/04/21 08:30	11/04/21 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/04/21 08:30	11/04/21 11:26	1

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-11388/5-A

Matrix: Solid

Analysis Batch: 11420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11388

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/04/21 08:30	11/04/21 11:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/04/21 08:30	11/04/21 11:26	1

MR MR

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	11/04/21 08:30	11/04/21 11:26	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/04/21 08:30	11/04/21 11:26	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-11388/1-A

Matrix: Solid

Analysis Batch: 11420

Prep Type: Total/NA

Prep Batch: 11388

ı		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.07875	-	mg/Kg		79	70 - 130	
	Toluene	0.100	0.09099		mg/Kg		91	70 - 130	
	Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130	
	m-Xylene & p-Xylene	0.200	0.1959		mg/Kg		98	70 - 130	
	o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130	
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LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	129	70 - 130
1,4-Difluorobenzene (Surr)	85	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11388

Matrix: Solid Analysis Batch: 11420

Lab Sample ID: LCSD 880-11388/2-A

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07843		mg/Kg		78	70 - 130	0	35
Toluene	0.100	0.07723		mg/Kg		77	70 - 130	16	35
Ethylbenzene	0.100	0.07689		mg/Kg		77	70 - 130	31	35
m-Xylene & p-Xylene	0.200	0.1621		mg/Kg		81	70 - 130	19	35
o-Xylene	0.100	0.08020		mg/Kg		80	70 - 130	24	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 890-1502-53 MS Client Sample ID: BH-53 (15)

Matrix: Solid

Analysis Batch: 11420

Prep Type: Total/NA Prep Batch: 11388

Spike MS MS Sample Sample %Rec. Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits <0.00202 U 0.0994 0.07316 74 Benzene 70 - 130 mg/Kg Toluene <0.00202 U 0.0994 0.07604 mg/Kg 75 70 - 130 0.0994 77 Ethylbenzene <0.00202 U 0.07655 mg/Kg 70 - 130 m-Xylene & p-Xylene <0.00403 U 0.199 0.1626 mg/Kg 82 70 - 130 o-Xylene <0.00202 U 0.0994 0.08042 mg/Kg 81 70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

MS MS

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1502-53 MS

Matrix: Solid

Analysis Batch: 11420

Client Sample ID: BH-53 (15)

Prep Type: Total/NA

Prep Batch: 11388

%Recovery Qualifier Surrogate

Limits 4-Bromofluorobenzene (Surr) 124 70 - 130 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: 890-1502-53 MSD Client Sample ID: BH-53 (15)

Matrix: Solid

Analysis Batch: 11420

Prep Type: Total/NA

Prep Batch: 11388

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0998	0.08660		mg/Kg		87	70 - 130	17	35
Toluene	<0.00202	U	0.0998	0.08136		mg/Kg		80	70 - 130	7	35
Ethylbenzene	<0.00202	U	0.0998	0.07768		mg/Kg		78	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1611		mg/Kg		81	70 - 130	1	35
o-Xylene	<0.00202	U	0.0998	0.08199		mg/Kg		82	70 - 130	2	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-11445/5-A Client Sample ID: Method Blank

Analysis Batch: 11449

Matrix: Solid

Prep Type: Total/NA Prep Batch: 11445

	MD	IND							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/04/21 21:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/04/21 21:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/04/21 21:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/04/21 11:11	11/04/21 21:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/04/21 21:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/04/21 11:11	11/04/21 21:28	1

мв мв

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130	11/04/21 11:11	11/04/21 21:28	1
1,4-Difluorobenzene (Surr)	196	S1+	70 - 130	11/04/21 11:11	11/04/21 21:28	1

Lab Sample ID: LCS 880-11445/1-A

Matrix: Solid

Analysis Batch: 11449

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11445

	Бріке	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1225		mg/Kg		122	70 - 130	
Toluene	0.100	0.1133		mg/Kg		113	70 - 130	
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2176		mg/Kg		109	70 - 130	
o-Xylene	0.100	0.1278		mg/Kg		128	70 - 130	

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 103 70 - 130

Eurofins Xenco, Carlsbad

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Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-11445/1-A

Matrix: Solid

Analysis Batch: 11449

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11445

LCS LCS

Surrogate %Recovery Qualifier Limits 1,4-Difluorobenzene (Surr) 230 S1+ 70 - 130

Lab Sample ID: LCSD 880-11445/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 11449

Prep Type: Total/NA

Prep Batch: 11445

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09174	-	mg/Kg		92	70 - 130	29	35
Toluene	0.100	0.08621		mg/Kg		86	70 - 130	27	35
Ethylbenzene	0.100	0.07899		mg/Kg		79	70 - 130	29	35
m-Xylene & p-Xylene	0.200	0.1558		mg/Kg		78	70 - 130	33	35
o-Xylene	0.100	0.09402		mg/Kg		94	70 - 130	30	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	82	70 - 130
1.4-Difluorobenzene (Surr)	234 S1+	70 - 130

Client Sample ID: Matrix Spike Lab Sample ID: 890-1520-A-1-B MS

Matrix: Solid

Analysis Batch: 11449

Prep Type: Total/NA

Prep Batch: 11445

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.00453	F1	0.0996	0.07184	F1	mg/Kg		68	70 - 130	
Toluene	0.00416	F1 F2	0.0996	0.002115	F1	mg/Kg		-2	70 - 130	
Ethylbenzene	<0.00200	U F1 F2	0.0996	0.06456	F1	mg/Kg		65	70 - 130	
m-Xylene & p-Xylene	< 0.00399	U F1 F2	0.199	0.1288	F1	mg/Kg		64	70 - 130	
o-Xylene	<0.00200	U F1 F2	0.0996	0.08438		mg/Kg		85	70 - 130	

Spike

Added

0.100

0.100

0.100

0.200

0.100

MSD MSD

0.06470 F1

0.03154 F1 F2

0.02033 F1 F2

0.01225 F1 F2

0.01299 F1 F2

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

MS MS

Sample Sample

0.00453 F1

0.00416 F1 F2

<0.00200 U F1 F2

<0.00399 U F1 F2

<0.00200 U F1 F2

Result Qualifier

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 _ 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-1520-A-1-C MSD

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 11449

Client Sample ID: Matrix Spike Duplicate

70 - 130

%Rec

60

27

20

5

13

Prep Type: Total/NA Prep Batch: 11445

%Rec. RPD

Limits **RPD** Limit 70 - 130 35 10 70 - 130 175 35 70 - 130 104 35 70 - 130

165

147

35

35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130
1,4-Difluorobenzene (Surr)	204	S1+	70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

MD MD

Lab Sample ID: MB 880-11449/8

Matrix: Solid

Analysis Batch: 11449

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			11/04/21 15:47	1
Toluene	<0.00200	U	0.00200		mg/Kg			11/04/21 15:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			11/04/21 15:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			11/04/21 15:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			11/04/21 15:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			11/04/21 15:47	1

MB MB Qualifier %Recovery Limits Surrogate 63 S1-70 - 130 4-Bromofluorobenzene (Surr) 187 S1+ 70 - 130 1,4-Difluorobenzene (Surr)

Prepared Dil Fac Analyzed 11/04/21 15:47 11/04/21 15:47

Lab Sample ID: LCS 880-11449/3

Matrix: Solid

Analysis Batch: 11449

Client Sample ID: Lab Control Sample Prep Type: Total/NA

LCS LCS %Rec. Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1209 mg/Kg 121 70 - 130 Toluene 0.100 0.1145 mg/Kg 114 70 - 130 Ethylbenzene 0.100 0.1064 mg/Kg 106 70 - 130 m-Xylene & p-Xylene 0.200 0.2177 mg/Kg 109 70 - 130 0.100 o-Xylene 0.1244 mg/Kg 124 70 - 130

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 94 190 S1+ 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: LCSD 880-11449/4

Matrix: Solid

Analysis Batch: 11449

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

	Spike	LCSD	LCSD			%Rec.		RPD
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1235	mg/Kg		123	70 - 130	2	35
Toluene	0.100	0.1165	mg/Kg		117	70 - 130	2	35
Ethylbenzene	0.100	0.1076	mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2185	mg/Kg		109	70 - 130	0	35
o-Xylene	0.100	0.1273	mg/Kg		127	70 - 130	2	35

LCSD LCSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 95 70 - 130 1,4-Difluorobenzene (Surr) 198 S1+ 70 - 130

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

MD MD

Lab Sample ID: MB 880-11223/1-A

Matrix: Solid Analysis Batch: 11317 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11223

	INID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 10:40	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 10:40	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 10:40	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				11/02/21 11:44	11/03/21 10:40	1
o-Terphenyl	113		70 - 130				11/02/21 11:44	11/03/21 10:40	1

Lab Sample ID: LCS 880-11223/2-A

Matrix: Solid Analysis Batch: 11317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 11223

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1194 119 70 - 130 mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 1003 mg/Kg 100 70 - 130C10-C28)

Limits

70 - 130

70 - 130

LCS LCS %Recovery Qualifier Surrogate 1-Chlorooctane 116

109

Lab Sample ID: LCSD 880-11223/3-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 11317

Client	Sample	ID:	Lab	Contro	I Sai	mple	Dup
				Dron T	ivno:	Tota	I/NI A

Prep Type: Total/NA Prep Batch: 11223

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier RPD Limit Unit %Rec Limits Gasoline Range Organics 1000 1154 mg/Kg 115 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 986.8 mg/Kg 99 70 - 130 20 C10-C28)

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 113 106 70 - 130 o-Terphenyl

Lab Sample ID: 890-1502-1 MS

Matrix: Solid

Analysis Batch: 11317

Client Sample ID: BH-1 (6) Prep Type: Total/NA

Prep Batch: 11223

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1 F2	997	1550	F1	mg/Kg		155	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	1181		mg/Kg		116	70 - 130	
C10-C28)										

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Limits

70 - 130

70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MS MS %Recovery Qualifier

122

114

Lab Sample ID: 890-1502-1 MS

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 11317

Client Sample ID: BH-1 (6) Prep Type: Total/NA

Prep Batch: 11223

Lab Sample ID: 890-1502-1 MSD

Matrix: Solid

Analysis Batch: 11317

Client Sample ID: BH-1 (6) Prep Type: Total/NA

Prep Batch: 11223

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U F1 F2 1000 1120 F2 112 70 - 13032 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1198 <49.9 U mg/Kg 117 70 - 13020 C10-C28)

MSD MSD

%Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 114 109 70 - 130 o-Terphenyl

Lab Sample ID: MB 880-11255/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 11321

Prep Type: Total/NA

Prep Batch: 11255

MB MB MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/02/21 14:45 11/03/21 10:22 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 11/02/21 14:45 11/03/21 10:22 C10-C28) <50.0 U 50.0 OII Range Organics (Over C28-C36) 11/02/21 14:45 11/03/21 10:22 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	11/02/21 14:45	11/03/21 10:22	1
o-Terphenyl	115		70 - 130	11/02/21 14:45	11/03/21 10:22	1

Lab Sample ID: LCS 880-11255/2-A

Matrix: Solid

Analysis Batch: 11321

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11255

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits D 1000 Gasoline Range Organics 942.0 94 70 - 130 mg/Kg (GRO)-C6-C10 1000 1089 109 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	106		70 - 130

Prep Type: Total/NA

Client Sample ID: BH-21 (6)

Client Sample ID: BH-21 (6) Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 11255

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCSD LCSD

Lab Sample ID: LCSD 880-11255/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 11321							Prep	Batch:	11255
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1055		mg/Kg		105	70 - 130	11	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1037		mg/Kg		104	70 - 130	5	20
C10-C28)									

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 890-1502-21 MS

Matrix: Solid

Analysis Batch: 11321

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	997	1011		mg/Kg		101	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	847.1		mg/Kg		85	70 - 130	
C10-C28)										

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-1502-21 MSD

Matrix: Solid

Analysis Batch: 11321									Prep	Batch:	Batch: 11255	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1099		mg/Kg		110	70 - 130	8	20	
Diesel Range Organics (Over	<49.9	U	1000	943.3		mg/Kg		94	70 - 130	11	20	

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: MB 880-11273/1-A

Matrix: Solid

Analysis Batch: 11323

Client Sam	ple ID: Method Blank
	Prep Type: Total/NA

Prep Batch: 11273

d Dil Fac
:22 1
:22 1
:22 1
0

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-11273/1-A

Matrix: Solid

Analysis Batch: 11323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11273

MB MB

Surrogate	%Recovery	Qualifier	Limits	_	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130		11/02/21 16:07	11/03/21 10:22	1
o-Terphenyl	103		70 - 130		11/02/21 16:07	11/03/21 10:22	1

Lab Sample ID: LCS 880-11273/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 11323

Prep Type: Total/NA

Prep Batch: 11273

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	883.1		mg/Kg		88	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	916.4		mg/Kg		92	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Q	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: LCSD 880-11273/3-A Client Sample ID: Lab Control Sample Dup

LCSD LCSD

Matrix: Solid

Analysis Batch: 11323

Prep Type: Total/NA

Prep Batch: 11273

	Opino	LOOD	LUUD				/ortco.		IXI D
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	879.9		mg/Kg		88	70 - 130	0	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1024		mg/Kg		102	70 - 130	11	20
C10-C28)									

Snike

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-1502-41 MS Client Sample ID: BH-41 (15) **Matrix: Solid**

Prep Type: Total/NA

Analysis Batch: 11323

Prep Batch: 11273 Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Unit %Rec Limits <49.9 U 997 1108 111 70 - 130

Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 997 897.0 mg/Kg 70 - 130

C10-C28)

Analyte

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	87		70 - 130

Client Sample ID: BH-41 (15)

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1502-41 MSD

Matrix: Solid

Analysis Batch: 11323

Prep Type: Total/NA Prep Batch: 11273

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	1000	1109		mg/Kg		111	70 - 130	0	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	1000	910.8		mg/Kg		91	70 - 130	2	20
C10-C28)											

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 96 o-Terphenyl 87 70 - 130

Lab Sample ID: MB 880-11356/1-A Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 11323** Prep Batch: 11356

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 19:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 19:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 19:59	1

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1-Chlorooctane 110 70 - 130 11/03/21 10:38 11/03/21 19:59 o-Terphenyl 109 70 - 130 11/03/21 10:38 11/03/21 19:59

Lab Sample ID: LCS 880-11356/2-A

Matrix: Solid

						Prep	Batch: 11356
Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
1000	905.5		mg/Kg		91	70 - 130	
1000	1094		mg/Kg		109	70 - 130	
	Added 1000	Added Result 1000 905.5	Added Result Qualifier 1000 905.5	Added Result Qualifier Unit 1000 905.5 mg/Kg	Added Result Qualifier Unit D 1000 905.5 mg/Kg	Added Result Qualifier Unit D %Rec 1000 905.5 mg/Kg 91	Spike LCS LCS %Rec. Added Result Qualifier Unit D %Rec Limits 1000 905.5 mg/Kg 91 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-11356/3-A

Matrix: Solid

Analysis Batch: 11323							Prep Batch: 11356		
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1023		mg/Kg		102	70 - 130	12	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	960.5		mg/Kg		96	70 - 130	13	20
C10-C28)									

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-11356/3-A

Matrix: Solid

Analysis Batch: 11323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11356

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 87 70 - 130 o-Terphenyl 84 70 - 130

Lab Sample ID: 890-1502-61 MS Client Sample ID: BH-61 (15)

C10-C28)

Matrix: Solid Prep Type: Total/NA Analysis Batch: 11323 Prep Batch: 11356

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 482.0 F1 Gasoline Range Organics <49.9 U F1 F2 997 48 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U F1 F2 997 328.9 F1 mg/Kg 31 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	41	S1-	70 - 130
o-Terphenyl	31	S1-	70 - 130

Lab Sample ID: 890-1502-61 MSD

Matrix: Solid

Analysis Batch: 11323

Client Sample ID: BH-61 (15) Prep Type: Total/NA

Prep Batch: 11356

Sample Sample Spike MSD MSD %Rec. Result Qualifier Analyte Result Qualifier Added Unit D %Rec Limits RPD Limit Gasoline Range Organics <49.9 U F1 F2 1000 918.0 F2 mg/Kg 92 70 - 130 62 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U F1 F2 1000 633.8 F1 F2 mg/Kg 61 70 - 130 63 20

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 75 61 S1-70 - 130 o-Terphenyl

Lab Sample ID: MB 880-11364/1-A Client Sample ID: Method Blank

Analysis Batch: 11416

Matrix: Solid Prep Type: Total/NA Prep Batch: 11364 мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 10:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 10:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 10:00	1
	MB	MB							

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99	70 - 130	11/03/21 11:37	11/04/21 10:00	1
o-Terphenyl	115	70 - 130	11/03/21 11:37	11/04/21 10:00	1

o-Terphenyl

QC Sample Results

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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Lab Sample ID: LCS 880-11364/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 11416 Prep Batch: 11364 100 100 Chiles

	Бріке	LUS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	840.1		mg/Kg		84	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	883.5		mg/Kg		88	70 - 130	
C10-C28)								

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 81

Lab Sample ID: LCSD 880-11364/3-A Client Sample ID: Lab Control Sample Dup

70 - 130

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11416** Prep Batch: 11364 Spike LCSD LCSD %Rec. RPD

Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 Gasoline Range Organics 887.3 mg/Kg 89 70 - 130 5 (GRO)-C6-C10 Diesel Range Organics (Over 1000 925.6 mg/Kg 93 70 - 130 5 20 C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 89 70 - 130 o-Terphenyl 97 70 - 130

Lab Sample ID: 890-1502-81 MS Client Sample ID: BH-81 (15) **Matrix: Solid**

Prep Type: Total/NA **Analysis Batch: 11416** Prep Batch: 11364

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <49.9 U 997 100 70 - 130 Gasoline Range Organics 995.4 mg/Kg (GRO)-C6-C10 997 818.8 80 70 - 130 Diesel Range Organics (Over <49.9 U mg/Kg C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 95 70 - 130 99 o-Terphenyl 70 - 130

Lab Sample ID: 890-1502-81 MSD Client Sample ID: BH-81 (15)

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11416** Prep Batch: 11364

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	985.1		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	815.8		mg/Kg		79	70 - 130	0	20

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 95

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1502-81 MSD

Lab Sample ID: MB 880-11375/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 11416

Client Sample ID: BH-81 (15)

Prep Type: Total/NA

Prep Batch: 11364

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 97 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11375

Analysis Batch: 11418

мв мв Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/03/21 13:15 11/04/21 10:00 (GRO)-C6-C10 50.0 11/04/21 10:00 Diesel Range Organics (Over <50.0 U mg/Kg 11/03/21 13:15 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/03/21 13:15 11/04/21 10:00

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	11/03/21 13:1:	11/04/21 10:00	1
o-Terphenyl	123		70 - 130	11/03/21 13:1:	5 11/04/21 10:00	1

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 11418

Lab Sample ID: LCS 880-11375/2-A

Prep Type: Total/NA Prep Batch: 11375 Cnika 100 100

	Spike	LUS	LUS				/orec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	976.2		mg/Kg		98	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1075		mg/Kg		107	70 - 130	
C40 C20\								

C10-C28)

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-11375/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 11418

Prep Type: Total/NA

Prep Batch: 11375

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	747.4	*1	mg/Kg		75	70 - 130	27	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	959.3		mg/Kg		96	70 - 130	11	20	
C10-C28)										

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	85		70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1502-101 MS

Analysis Batch: 11418

Matrix: Solid

Client Sample ID: SW-10 (0-6) Prep Type: Total/NA

Prep Batch: 11375

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U *1	997	925.0		mg/Kg		91	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	908.6		mg/Kg		88	70 - 130	
C10-C28)										

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 101 70 - 130 o-Terphenyl 93

Client Sample ID: SW-10 (0-6) Lab Sample ID: 890-1502-101 MSD

Matrix: Solid

Analysis Batch: 11418

Prep Type: Total/NA

Prep Batch: 11375

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	1000	1063		mg/Kg		105	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	979.4		mg/Kg		94	70 - 130	8	20

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	109	70 - 130
o-Terphenyl	97	70 - 130

Lab Sample ID: MB 880-11376/1-A

Matrix: Solid

Analysis Batch: 11414

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11376

-	МВ	MB						-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/21 13:58	11/04/21 09:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 13:58	11/04/21 09:53	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 13:58	11/04/21 09:53	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	11/03/21 13:58	11/04/21 09:53	1
o-Terphenyl	94		70 - 130	11/03/21 13:58	11/04/21 09:53	1

Lab Sample ID: LCS 880-11376/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 11414

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	Prep Type: Total/NA
	Prep Batch: 11376
	9/ Pag

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	977.8		mg/Kg		98	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	838.1		mg/Kg		84	70 - 130	
C10-C28)								

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-11376/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 11414

Prep Type: Total/NA

Prep Batch: 11376

1-Chlorooctane 108 70 - 130 o-Terphenyl 88 70 - 130

Lab Sample ID: LCSD 880-11376/3-A Client Sample ID: Lab Control Sample Dup

Limits

Matrix: Solid

Analysis Batch: 11414

Prep Type: Total/NA

Prep Batch: 11376

%Rec. RPD Limits **RPD** Limit

Spike LCSD LCSD Analyte Added Result Qualifier Unit D %Rec 1000 965.5 97 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 913.0 91 mg/Kg 70 - 1309 20 C10-C28)

Surrogate

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-1502-121 MS Client Sample ID: SW-30 (RS) (6)

Matrix: Solid

Analysis Batch: 11414

Prep Type: Total/NA

Prep Batch: 11376

Sample Sample Spike MS MS Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 997 1036 mg/Kg 101 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 997 863.0 mg/Kg 84 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 100 o-Terphenyl 92 70 - 130

Lab Sample ID: 890-1502-121 MSD Client Sample ID: SW-30 (RS) (6)

Matrix: Solid

Analysis Batch: 11414

Prep Type: Total/NA

Prep Batch: 11376

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U 1000 954.6 93 Gasoline Range Organics <49.9 mg/Kg 70 - 130 8 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 1000 789.2 mg/Kg 77 70 - 130 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	84		70 - 130

Job ID: 890-1502-1

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

RPD

Prep Type: Soluble

Prep Type: Soluble

RPD

Prep Type: Soluble

Prep Type: Soluble

Dil Fac

Client Sample ID: Method Blank

Analyzed

11/06/21 05:15

Client Sample ID: Lab Control Sample

%Rec.

Limits

90 - 110

%Rec.

Limits

90 - 110

%Rec.

Limits

90 - 110

Client Sample ID: Matrix Spike Duplicate

%Rec.

Limits

90 - 110

Client Sample ID: Method Blank

Analyzed

11/07/21 01:48

Client Sample ID: Lab Control Sample

%Rec.

Limits

90 - 110

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample Dup

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

RL

5.00

Spike

Added

Spike

Added

Spike

Added

Spike

Added

248

Spike Added

250

248

Sample Sample

Sample Sample

987 F1

Result Qualifier

мв мв

987

Result Qualifier

250

250

MDL Unit

Qualifier

Qualifier

LCS LCS

LCSD LCSD

MS MS

MSD MSD

1194 F1

Result Qualifier

MDL Unit

mg/Kg

1189 F1

Result Qualifier

Result

266.7

Result

267.5

mg/Kg

Unit

Unit

Unit

Unit

mg/Kg

D

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

%Rec

%Rec

%Rec

%Rec

Prepared

%Rec

92

84

107

107

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11227/1-A

Matrix: Solid

Analysis Batch: 11379

MB MB

Analyte Result Qualifier Chloride <5.00 U

Lab Sample ID: LCS 880-11227/2-A

Analysis Batch: 11379

Analyte

Lab Sample ID: LCSD 880-11227/3-A

Matrix: Solid

Matrix: Solid

Chloride

Analysis Batch: 11379

Analyte

Chloride Lab Sample ID: 890-1499-A-1-H MS

Matrix: Solid

Analyte

Chloride

Analyte

Analysis Batch: 11379

Chloride

Lab Sample ID: 890-1499-A-1-I MSD

Matrix: Solid

Analysis Batch: 11379

Analyte

Lab Sample ID: MB 880-11233/1-A

Matrix: Solid

Analysis Batch: 11381

Result

Analyte Qualifier Chloride <5.00

Lab Sample ID: LCS 880-11233/2-A

Matrix: Solid

Analysis Batch: 11381

Chloride Lab Sample ID: LCSD 880-11233/3-A

Matrix: Solid

Analysis Batch: 11381

Analyte Chloride

Spike

Added Result 250 233.0

RL

5.00

LCS LCS

229.5

Result Qualifier

LCSD LCSD Qualifier

Unit mg/Kg

Unit

mg/Kg

%Rec. %Rec Limits 93 90 - 110

RPD Limit 20

Prep Type: Soluble

Eurofins Xenco, Carlsbad

RPD

Limit

RPD

Limit

Dil Fac

RPD

Client Sample ID: SW-1 (0-6)

Client Sample ID: SW-1 (0-6)

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: BH-4 (6)

Client Sample ID: BH-4 (6)

Client Sample ID: SW-20 (15)

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1502-92 MS

Matrix: Solid

Analysis Batch: 11381

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1430		1250	2745		mg/Kg		105	90 - 110	

Lab Sample ID: 890-1502-92 MSD

Matrix: Solid

Analysis Batch: 11381

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1430		1250	2746		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-11236/1-A

Matrix: Solid

Analysis Batch: 11452

MB MB

Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			11/08/21 08:34	1

Lab Sample ID: LCS 880-11236/2-A

Matrix: Solid

Analysis Batch: 11452

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	249.1		mg/Kg	_	100	90 - 110	

Lab Sample ID: LCSD 880-11236/3-A

Matrix: Solid

Analysis Batch: 11452

	Spike	LCSD	LCSD				70Rec.		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	249.5		mg/Kg		100	90 - 110	0	20	

Lab Sample ID: 890-1502-4 MS

Matrix: Solid

Analysis Batch: 11452

-	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	48.0		253	282.3		ma/Ka	_	92	90 110	 	

Lab Sample ID: 890-1502-4 MSD

Matrix: Solid

Analysis Batch: 11452

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	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	48.9		253	277.9		mg/Kg		91	90 - 110	2	20

Lab Sample ID: 890-1502-111 MS

Released to Imaging: 9/1/2023 3:11:42 PM

Matrix: Solid

Analysis Batch: 11/52

Analysis Batch: 11452										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1150		248	1264	4	mg/Kg		48	90 - 110	

Eurofins Xenco, Carlsbad

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Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1502-111 MSD Client Sample ID: SW-20 (15) **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11452

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 1150 248 1261 4 mg/Kg 90 - 110 20

Lab Sample ID: MB 880-11237/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11453

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 11/07/21 05:07

мв мв

Lab Sample ID: LCS 880-11237/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11453

LCS LCS %Rec. Spike Analyte Added Result Qualifier Unit %Rec Limits Chloride 236.9 250 mg/Kg 90 - 110

Lab Sample ID: LCSD 880-11237/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11453

LCSD LCSD RPD Spike %Rec. Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 241.4 90 - 110 20 mg/Kg

Lab Sample ID: 890-1502-5 MS Client Sample ID: BH-5 (6) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11453

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 123 249 353.6 mg/Kg 93 90 - 110

Lab Sample ID: 890-1502-5 MSD Client Sample ID: BH-5 (6) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11453

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 123 249 352 1 mg/Kg 90 - 110

Lab Sample ID: 890-1502-15 MS Client Sample ID: BH-15 (6) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11453

MS MS %Rec. Sample Sample Spike Result Qualifier Added Analyte Result Qualifier Limits Unit D %Rec 1250 Chloride 4220 F1 5802 F1 mg/Kg 126 90 - 110

Lab Sample ID: 890-1502-15 MSD Client Sample ID: BH-15 (6) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11453

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	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	4220	F1	1250	5826	F1	mg/Kg		128	90 - 110	0	20

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

%Rec.

Limits

90 - 110

%Rec.

Limits

90 - 110

Client Sample ID: BH-25 (15)

Client Sample ID: BH-25 (15)

Client Sample ID: BH-35 (15)

Client Sample ID: BH-35 (15)

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

RPD

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11238/1-A

Matrix: Solid

Analysis Batch: 11454

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

MB MB

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 11/07/21 09:27

250

Spike

LCS LCS

LCSD LCSD

Qualifier

Unit

mg/Kg

D

D

%Rec

%Rec

95

Result

238.0

Lab Sample ID: LCS 880-11238/2-A **Matrix: Solid**

Analysis Batch: 11454

Chloride

Spike Added Analyte

Lab Sample ID: LCSD 880-11238/3-A

Matrix: Solid

Analysis Batch: 11454

Analyte Added Result Qualifier Unit Chloride 250 234.9 mg/Kg

Lab Sample ID: 890-1502-25 MS **Matrix: Solid**

Analysis Batch: 11454

Sample Sample MS MS Spike %Rec. Result Qualifier Added Result Qualifier %Rec Analyte Unit Limits Chloride 447 F1 250 648.9 F1 81 90 - 110 mg/Kg

Lab Sample ID: 890-1502-25 MSD

Matrix: Solid

Analysis Batch: 11454

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 447 F1 656.3 F1 Chloride 250 mg/Kg 84 90 - 110

Lab Sample ID: 890-1502-35 MS

Matrix: Solid

Analysis Batch: 11454

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 333 F1 253 539.3 F1 mg/Kg 90 - 110

Lab Sample ID: 890-1502-35 MSD

Matrix: Solid

Analysis Batch: 11454

MSD MSD %Rec. RPD Sample Sample Spike Added Result Qualifier Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 333 F1 253 539.2 F1 mg/Kg 82 90 - 110

Lab Sample ID: MB 880-11240/1-A

Matrix: Solid

Analysis Batch: 11455

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 5.00 <5.00 mg/Kg 11/08/21 04:07

Eurofins Xenco, Carlsbad

RPD

Limit

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-11240/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11455

Spike LCS LCS %Rec. Analyte Added Result Qualifier %Rec Limits Unit Chloride 250 232.0 mg/Kg 93 90 - 110

Lab Sample ID: LCSD 880-11240/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11455

Spike LCSD LCSD %Rec. RPD Added Limits Limit Analyte Result Qualifier Unit D %Rec RPD Chloride 250 233.4 mg/Kg 93 90 - 110

Lab Sample ID: 890-1502-45 MS Client Sample ID: BH-45 (15) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11455

MS MS %Rec. Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride F1 284 248 510.8 mg/Kg 90 - 110

Lab Sample ID: 890-1502-45 MSD Client Sample ID: BH-45 (15) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11455

Sample Sample MSD MSD RPD Spike %Rec. Result Qualifier Result Qualifier Added %Rec RPD Limit Analyte Unit Limits Chloride 284 248 499.4 F1 87 90 - 110 20 mg/Kg

Lab Sample ID: 890-1502-55 MS Client Sample ID: BH-55 (15) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11455

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 4680 F1 1250 5790 F1 Chloride mg/Kg 89 90 - 110

Lab Sample ID: 890-1502-55 MSD Client Sample ID: BH-55 (15) **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11455

Sample Spike MSD MSD %Rec. RPD Sample Result Qualifier Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 4680 F1 1250 5826 mg/Kg 90 - 110

Lab Sample ID: MB 880-11242/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 11456

мв мв

Dil Fac Analyte Result Qualifier RL MDL Unit Prepared Analyzed Chloride <5.00 5.00 mg/Kg 11/08/21 08:35

Lab Sample ID: LCS 880-11242/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11456

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	236.3		mg/Kg		95	90 - 110	

Eurofins Xenco, Carlsbad

Prep Type: Soluble

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-11242/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11456

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Chloride 250 237.4 mg/Kg 95 90 - 110 20

Lab Sample ID: 890-1502-65 MS Client Sample ID: BH-65 (15)

Matrix: Solid Prep Type: Soluble

Analysis Batch: 11456

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 823 F1 250 1040 F1 mg/Kg 87 90 - 110

Lab Sample ID: 890-1502-65 MSD Client Sample ID: BH-65 (15)

Matrix: Solid Prep Type: Soluble

Analysis Batch: 11456

MSD MSD %Rec. RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 823 F1 250 1044 F1 mg/Kg 90 - 110

Lab Sample ID: 890-1502-75 MS Client Sample ID: BH-75 (15) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11456

MS MS Sample Sample Spike %Rec. Result Qualifier Result Qualifier Added %Rec Analyte Unit Limits Chloride 982 249 1200 F1 90 - 110 mg/Kg

Lab Sample ID: 890-1502-75 MSD Client Sample ID: BH-75 (15) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11456

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 982 F1 1186 F1 Chloride 249 mg/Kg 82 90 - 110

Lab Sample ID: MB 880-11243/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11705

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 11/09/21 12:29

Lab Sample ID: LCS 880-11243/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 11705

LCS LCS %Rec. Spike Added Result Qualifier Limits Analyte Unit %Rec 250

Chloride 251.9 mg/Kg 101 90 - 110 Lab Sample ID: LCSD 880-11243/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Analysis Batch: 11705

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 253.1 mg/Kg 101 90 - 110 20

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Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1502-85 MS

Client Sample ID: BH-85 (15)

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 11705

Sample Sample Spike MS MS %Rec. Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Chloride 656 F1 250 870.1 F1 mg/Kg 86 90 - 110

Lab Sample ID: 890-1502-85 MSD

Client Sample ID: BH-85 (15)

Matrix: Solid Prep Type: Soluble

Analysis Batch: 11705

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Limits Limit Analyte Unit D %Rec RPD Chloride 656 F1 250 878.2 F1 mg/Kg 89 90 - 110

Lab Sample ID: 890-1502-124 MS Client Sample ID: SW-33 (RS) (8)

Matrix: Solid Prep Type: Soluble

Analysis Batch: 11705

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 831 F1 252 1043 F1 90 - 110 mg/Kg

Lab Sample ID: 890-1502-124 MSD Client Sample ID: SW-33 (RS) (8)

Matrix: Solid

Analysis Batch: 11705

Spike MSD MSD RPD Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits 252 Chloride 831 F1 1043 F1 84 90 - 110 20 mg/Kg

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

GC VOA

Prep Batch: 11021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11021/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 11022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	8021B	11076
890-1502-122	SW-31 (RS) (4)	Total/NA	Solid	8021B	11076
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	8021B	11076
890-1502-124	SW-33 (RS) (8)	Total/NA	Solid	8021B	11076
MB 880-11021/5-A	Method Blank	Total/NA	Solid	8021B	11021
MB 880-11076/5-A	Method Blank	Total/NA	Solid	8021B	11076
LCS 880-11076/1-A	Lab Control Sample	Total/NA	Solid	8021B	11076
LCSD 880-11076/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11076
890-1502-121 MS	SW-30 (RS) (6)	Total/NA	Solid	8021B	11076
890-1502-121 MSD	SW-30 (RS) (6)	Total/NA	Solid	8021B	11076

Prep Batch: 11075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-1	BH-1 (6)	Total/NA	Solid	5035	
890-1502-2	BH-2 (6)	Total/NA	Solid	5035	
890-1502-3	BH-3 (6)	Total/NA	Solid	5035	
890-1502-4	BH-4 (6)	Total/NA	Solid	5035	
890-1502-5	BH-5 (6)	Total/NA	Solid	5035	
890-1502-6	BH-6 (6)	Total/NA	Solid	5035	
890-1502-7	BH-7 (6)	Total/NA	Solid	5035	
890-1502-8	BH-8 (6)	Total/NA	Solid	5035	
890-1502-9	BH-9 (6)	Total/NA	Solid	5035	
890-1502-10	BH-10 (6)	Total/NA	Solid	5035	
890-1502-11	BH-11 (6)	Total/NA	Solid	5035	
890-1502-12	BH-12 (6)	Total/NA	Solid	5035	
890-1502-13	BH-13 (6)	Total/NA	Solid	5035	
890-1502-14	BH-14 (6)	Total/NA	Solid	5035	
890-1502-15	BH-15 (6)	Total/NA	Solid	5035	
890-1502-16	BH-16 (6)	Total/NA	Solid	5035	
890-1502-17	BH-17 (6)	Total/NA	Solid	5035	
890-1502-18	BH-18 (6)	Total/NA	Solid	5035	
890-1502-19	BH-19 (6)	Total/NA	Solid	5035	
890-1502-20	BH-20 (6)	Total/NA	Solid	5035	
MB 880-11075/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11075/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11075/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-1 MS	BH-1 (6)	Total/NA	Solid	5035	
890-1502-1 MSD	BH-1 (6)	Total/NA	Solid	5035	

Prep Batch: 11076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	5035	
890-1502-122	SW-31 (RS) (4)	Total/NA	Solid	5035	
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	5035	
890-1502-124	SW-33 (RS) (8)	Total/NA	Solid	5035	
MB 880-11076/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11076/1-A	Lab Control Sample	Total/NA	Solid	5035	

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC VOA (Continued)

Prep Batch: 11076 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-11076/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-121 MS	SW-30 (RS) (6)	Total/NA	Solid	5035	
890-1502-121 MSD	SW-30 (RS) (6)	Total/NA	Solid	5035	

Prep Batch: 11109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-21	BH-21 (6)	Total/NA	Solid	5035	
890-1502-22	BH-22 (6)	Total/NA	Solid	5035	
890-1502-23	BH-23 (6)	Total/NA	Solid	5035	
890-1502-24	BH-24 (6)	Total/NA	Solid	5035	
890-1502-25	BH-25 (15)	Total/NA	Solid	5035	
890-1502-26	BH-26 (15)	Total/NA	Solid	5035	
890-1502-27	BH-27 (15)	Total/NA	Solid	5035	
890-1502-28	BH-28 (15)	Total/NA	Solid	5035	
890-1502-29	BH-29 (15)	Total/NA	Solid	5035	
890-1502-30	BH-30 (15)	Total/NA	Solid	5035	
890-1502-31	BH-31 (15)	Total/NA	Solid	5035	
890-1502-32	BH-32 (15)	Total/NA	Solid	5035	
890-1502-33	BH-33 (15)	Total/NA	Solid	5035	
890-1502-34	BH-34 (15)	Total/NA	Solid	5035	
890-1502-35	BH-35 (15)	Total/NA	Solid	5035	
890-1502-36	BH-36 (15)	Total/NA	Solid	5035	
890-1502-37	BH-37 (15)	Total/NA	Solid	5035	
890-1502-38	BH-38 (15)	Total/NA	Solid	5035	
890-1502-39	BH-39 (15)	Total/NA	Solid	5035	
890-1502-40	BH-40 (15)	Total/NA	Solid	5035	
MB 880-11109/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11109/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11109/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-21 MS	BH-21 (6)	Total/NA	Solid	5035	
890-1502-21 MSD	BH-21 (6)	Total/NA	Solid	5035	

Prep Batch: 11111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-41	BH-41 (15)	Total/NA	Solid	5035	
890-1502-42	BH-42 (15)	Total/NA	Solid	5035	
890-1502-43	BH-43 (15)	Total/NA	Solid	5035	
890-1502-44	BH-44 (15)	Total/NA	Solid	5035	
890-1502-45	BH-45 (15)	Total/NA	Solid	5035	
890-1502-46	BH-46 (15)	Total/NA	Solid	5035	
890-1502-47	BH-47 (15)	Total/NA	Solid	5035	
890-1502-48	BH-48 (15)	Total/NA	Solid	5035	
890-1502-49	BH-49 (15)	Total/NA	Solid	5035	
890-1502-50	BH-50 (15)	Total/NA	Solid	5035	
890-1502-51	BH-51 (15)	Total/NA	Solid	5035	
890-1502-52	BH-52 (15)	Total/NA	Solid	5035	
890-1502-54	BH-54 (15)	Total/NA	Solid	5035	
890-1502-55	BH-55 (15)	Total/NA	Solid	5035	
890-1502-56	BH-56 (15)	Total/NA	Solid	5035	
MB 880-11111/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11111/1-A	Lab Control Sample	Total/NA	Solid	5035	

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Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC VOA (Continued)

Prep Batch: 11111 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-11111/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-41 MS	BH-41 (15)	Total/NA	Solid	5035	
890-1502-41 MSD	BH-41 (15)	Total/NA	Solid	5035	

Prep Batch: 11112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-61	BH-61 (15)	Total/NA	Solid	5035	
890-1502-62	BH-62 (15)	Total/NA	Solid	5035	
890-1502-63	BH-63 (15)	Total/NA	Solid	5035	
890-1502-64	BH-64 (15)	Total/NA	Solid	5035	
890-1502-65	BH-65 (15)	Total/NA	Solid	5035	
890-1502-66	BH-66 (15)	Total/NA	Solid	5035	
890-1502-67	BH-67 (15)	Total/NA	Solid	5035	
890-1502-68	BH-68 (15)	Total/NA	Solid	5035	
890-1502-69	BH-69 (15)	Total/NA	Solid	5035	
890-1502-70	BH-70 (15)	Total/NA	Solid	5035	
890-1502-71	BH-71 (15)	Total/NA	Solid	5035	
890-1502-72	BH-72 (15)	Total/NA	Solid	5035	
890-1502-73	BH-73 (15)	Total/NA	Solid	5035	
890-1502-74	BH-74 (15)	Total/NA	Solid	5035	
890-1502-75	BH-75 (15)	Total/NA	Solid	5035	
890-1502-76	BH-76 (15)	Total/NA	Solid	5035	
890-1502-77	BH-77 (15)	Total/NA	Solid	5035	
890-1502-78	BH-78 (15)	Total/NA	Solid	5035	
890-1502-79	BH-79 (15)	Total/NA	Solid	5035	
890-1502-80	BH-80 (15)	Total/NA	Solid	5035	
MB 880-11112/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11112/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11112/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-61 MS	BH-61 (15)	Total/NA	Solid	5035	
890-1502-61 MSD	BH-61 (15)	Total/NA	Solid	5035	

Prep Batch: 11113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-81	BH-81 (15)	Total/NA	Solid	5035	_
890-1502-82	BH-82 (15)	Total/NA	Solid	5035	
890-1502-83	BH-83 (15)	Total/NA	Solid	5035	
890-1502-84	BH-84 (15)	Total/NA	Solid	5035	
890-1502-85	BH-85 (15)	Total/NA	Solid	5035	
890-1502-86	BH-86 (15)	Total/NA	Solid	5035	
890-1502-87	BH-87 (15)	Total/NA	Solid	5035	
390-1502-88	BH-88 (15)	Total/NA	Solid	5035	
890-1502-89	BH-89 (15)	Total/NA	Solid	5035	
390-1502-90	BH90 (RS) (6)	Total/NA	Solid	5035	
390-1502-91	BH-91 (RS) (6)	Total/NA	Solid	5035	
390-1502-92	SW-1 (0-6)	Total/NA	Solid	5035	
390-1502-93	SW-2 (0-6)	Total/NA	Solid	5035	
390-1502-94	SW-3 (0-6)	Total/NA	Solid	5035	
390-1502-95	SW-4 (0-6)	Total/NA	Solid	5035	
390-1502-96	SW-5 (0-6)	Total/NA	Solid	5035	
890-1502-97	SW-6 (0-6)	Total/NA	Solid	5035	

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Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC VOA (Continued)

Prep Batch: 11113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-98	SW-7 (0-6)	Total/NA	Solid	5035	
890-1502-99	SW-8 (0-6)	Total/NA	Solid	5035	
890-1502-100	SW-9 (0-6)	Total/NA	Solid	5035	
MB 880-11113/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11113/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11113/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-81 MS	BH-81 (15)	Total/NA	Solid	5035	
890-1502-81 MSD	BH-81 (15)	Total/NA	Solid	5035	

Prep Batch: 11114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-101	SW-10 (0-6)	Total/NA	Solid	5035	
890-1502-102	SW-11 (0-6)	Total/NA	Solid	5035	
890-1502-103	SW-12 (10)	Total/NA	Solid	5035	
890-1502-104	SW-13 (15)	Total/NA	Solid	5035	
890-1502-105	SW-14 (15)	Total/NA	Solid	5035	
890-1502-106	SW-15 (15)	Total/NA	Solid	5035	
890-1502-107	SW-16 (15)	Total/NA	Solid	5035	
890-1502-108	SW-17 (15)	Total/NA	Solid	5035	
890-1502-109	SW-18 (15)	Total/NA	Solid	5035	
890-1502-110	SW-19 (15)	Total/NA	Solid	5035	
890-1502-111	SW-20 (15)	Total/NA	Solid	5035	
890-1502-112	SW-21 (15)	Total/NA	Solid	5035	
890-1502-113	SW-22 (15)	Total/NA	Solid	5035	
890-1502-114	SW-23 (15)	Total/NA	Solid	5035	
890-1502-115	SW-24 (15)	Total/NA	Solid	5035	
890-1502-116	SW-25 (15)	Total/NA	Solid	5035	
890-1502-117	SW-26 (15)	Total/NA	Solid	5035	
890-1502-118	SW-27 (15)	Total/NA	Solid	5035	
890-1502-119	SW-28 (15)	Total/NA	Solid	5035	
MB 880-11114/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11114/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11114/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-101 MS	SW-10 (0-6)	Total/NA	Solid	5035	
890-1502-101 MSD	SW-10 (0-6)	Total/NA	Solid	5035	

Analysis Batch: 11206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-1	BH-1 (6)	Total/NA	Solid	8021B	11075
890-1502-2	BH-2 (6)	Total/NA	Solid	8021B	11075
890-1502-3	BH-3 (6)	Total/NA	Solid	8021B	11075
890-1502-4	BH-4 (6)	Total/NA	Solid	8021B	11075
890-1502-5	BH-5 (6)	Total/NA	Solid	8021B	11075
890-1502-6	BH-6 (6)	Total/NA	Solid	8021B	11075
890-1502-7	BH-7 (6)	Total/NA	Solid	8021B	11075
890-1502-8	BH-8 (6)	Total/NA	Solid	8021B	11075
890-1502-9	BH-9 (6)	Total/NA	Solid	8021B	11075
890-1502-10	BH-10 (6)	Total/NA	Solid	8021B	11075
890-1502-11	BH-11 (6)	Total/NA	Solid	8021B	11075
890-1502-12	BH-12 (6)	Total/NA	Solid	8021B	11075
890-1502-13	BH-13 (6)	Total/NA	Solid	8021B	11075

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC VOA (Continued)

Analysis Batch: 11206 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-14	BH-14 (6)	Total/NA	Solid	8021B	11075
890-1502-15	BH-15 (6)	Total/NA	Solid	8021B	11075
890-1502-16	BH-16 (6)	Total/NA	Solid	8021B	11075
890-1502-17	BH-17 (6)	Total/NA	Solid	8021B	11075
890-1502-18	BH-18 (6)	Total/NA	Solid	8021B	11075
890-1502-19	BH-19 (6)	Total/NA	Solid	8021B	11075
890-1502-20	BH-20 (6)	Total/NA	Solid	8021B	11075
MB 880-11075/5-A	Method Blank	Total/NA	Solid	8021B	11075
MB 880-11207/5-A	Method Blank	Total/NA	Solid	8021B	11207
LCS 880-11075/1-A	Lab Control Sample	Total/NA	Solid	8021B	11075
LCSD 880-11075/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11075
890-1502-1 MS	BH-1 (6)	Total/NA	Solid	8021B	11075
890-1502-1 MSD	BH-1 (6)	Total/NA	Solid	8021B	11075

Prep Batch: 11207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11207/5-A	Method Blank	Total/NA	Solid	5035	_

Analysis Batch: 11221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
390-1502-21	BH-21 (6)	Total/NA	Solid	8021B	1110
890-1502-22	BH-22 (6)	Total/NA	Solid	8021B	1110
390-1502-23	BH-23 (6)	Total/NA	Solid	8021B	1110
390-1502-24	BH-24 (6)	Total/NA	Solid	8021B	1110
390-1502-25	BH-25 (15)	Total/NA	Solid	8021B	1110
390-1502-26	BH-26 (15)	Total/NA	Solid	8021B	1110
390-1502-27	BH-27 (15)	Total/NA	Solid	8021B	1110
390-1502-28	BH-28 (15)	Total/NA	Solid	8021B	1110
390-1502-29	BH-29 (15)	Total/NA	Solid	8021B	1110
390-1502-30	BH-30 (15)	Total/NA	Solid	8021B	1110
90-1502-31	BH-31 (15)	Total/NA	Solid	8021B	1110
390-1502-32	BH-32 (15)	Total/NA	Solid	8021B	1110
90-1502-33	BH-33 (15)	Total/NA	Solid	8021B	1110
90-1502-34	BH-34 (15)	Total/NA	Solid	8021B	1110
90-1502-35	BH-35 (15)	Total/NA	Solid	8021B	1110
90-1502-36	BH-36 (15)	Total/NA	Solid	8021B	1110
90-1502-37	BH-37 (15)	Total/NA	Solid	8021B	1110
90-1502-38	BH-38 (15)	Total/NA	Solid	8021B	1110
390-1502-39	BH-39 (15)	Total/NA	Solid	8021B	1110
90-1502-40	BH-40 (15)	Total/NA	Solid	8021B	1110
90-1502-61	BH-61 (15)	Total/NA	Solid	8021B	1111
90-1502-62	BH-62 (15)	Total/NA	Solid	8021B	1111
90-1502-63	BH-63 (15)	Total/NA	Solid	8021B	1111
90-1502-64	BH-64 (15)	Total/NA	Solid	8021B	1111
90-1502-65	BH-65 (15)	Total/NA	Solid	8021B	1111
90-1502-66	BH-66 (15)	Total/NA	Solid	8021B	1111
90-1502-67	BH-67 (15)	Total/NA	Solid	8021B	1111
90-1502-68	BH-68 (15)	Total/NA	Solid	8021B	1111
90-1502-69	BH-69 (15)	Total/NA	Solid	8021B	1111
90-1502-70	BH-70 (15)	Total/NA	Solid	8021B	1111
390-1502-71	BH-71 (15)	Total/NA	Solid	8021B	1111

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Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC VOA (Continued)

Analysis Batch: 11221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-72	BH-72 (15)	Total/NA	Solid	8021B	11112
890-1502-73	BH-73 (15)	Total/NA	Solid	8021B	11112
890-1502-74	BH-74 (15)	Total/NA	Solid	8021B	11112
890-1502-75	BH-75 (15)	Total/NA	Solid	8021B	11112
890-1502-76	BH-76 (15)	Total/NA	Solid	8021B	11112
890-1502-77	BH-77 (15)	Total/NA	Solid	8021B	11112
890-1502-78	BH-78 (15)	Total/NA	Solid	8021B	11112
890-1502-79	BH-79 (15)	Total/NA	Solid	8021B	11112
890-1502-80	BH-80 (15)	Total/NA	Solid	8021B	11112
MB 880-11109/5-A	Method Blank	Total/NA	Solid	8021B	11109
MB 880-11112/5-A	Method Blank	Total/NA	Solid	8021B	11112
LCS 880-11109/1-A	Lab Control Sample	Total/NA	Solid	8021B	11109
LCS 880-11112/1-A	Lab Control Sample	Total/NA	Solid	8021B	11112
LCSD 880-11109/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11109
LCSD 880-11112/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11112
890-1502-21 MS	BH-21 (6)	Total/NA	Solid	8021B	11109
890-1502-21 MSD	BH-21 (6)	Total/NA	Solid	8021B	11109
890-1502-61 MS	BH-61 (15)	Total/NA	Solid	8021B	11112
890-1502-61 MSD	BH-61 (15)	Total/NA	Solid	8021B	11112

Prep Batch: 11258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11258/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 11259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-41	BH-41 (15)	Total/NA	Solid	8021B	1111
890-1502-42	BH-42 (15)	Total/NA	Solid	8021B	11111
890-1502-43	BH-43 (15)	Total/NA	Solid	8021B	11111
890-1502-44	BH-44 (15)	Total/NA	Solid	8021B	11111
890-1502-45	BH-45 (15)	Total/NA	Solid	8021B	11111
890-1502-46	BH-46 (15)	Total/NA	Solid	8021B	11111
890-1502-47	BH-47 (15)	Total/NA	Solid	8021B	11111
890-1502-48	BH-48 (15)	Total/NA	Solid	8021B	11111
890-1502-49	BH-49 (15)	Total/NA	Solid	8021B	11111
390-1502-50	BH-50 (15)	Total/NA	Solid	8021B	11111
390-1502-51	BH-51 (15)	Total/NA	Solid	8021B	11111
390-1502-52	BH-52 (15)	Total/NA	Solid	8021B	11111
890-1502-54	BH-54 (15)	Total/NA	Solid	8021B	11111
390-1502-55	BH-55 (15)	Total/NA	Solid	8021B	11111
390-1502-56	BH-56 (15)	Total/NA	Solid	8021B	11111
MB 880-11111/5-A	Method Blank	Total/NA	Solid	8021B	11111
MB 880-11258/5-A	Method Blank	Total/NA	Solid	8021B	11258
LCS 880-11111/1-A	Lab Control Sample	Total/NA	Solid	8021B	11111
LCSD 880-11111/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11111
390-1502-41 MS	BH-41 (15)	Total/NA	Solid	8021B	11111
890-1502-41 MSD	BH-41 (15)	Total/NA	Solid	8021B	1111

Analysis Batch: 11374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch					
890-1502-81	BH-81 (15)	Total/NA	Solid	8021B	11113					

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC VOA (Continued)

Analysis Batch: 11374 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
890-1502-82	BH-82 (15)	Total/NA	Solid	8021B	1111
890-1502-83	BH-83 (15)	Total/NA	Solid	8021B	1111
890-1502-84	BH-84 (15)	Total/NA	Solid	8021B	1111
890-1502-85	BH-85 (15)	Total/NA	Solid	8021B	1111
890-1502-86	BH-86 (15)	Total/NA	Solid	8021B	1111
890-1502-87	BH-87 (15)	Total/NA	Solid	8021B	1111
890-1502-88	BH-88 (15)	Total/NA	Solid	8021B	1111
890-1502-89	BH-89 (15)	Total/NA	Solid	8021B	1111
890-1502-90	BH90 (RS) (6)	Total/NA	Solid	8021B	1111
890-1502-91	BH-91 (RS) (6)	Total/NA	Solid	8021B	1111
890-1502-92	SW-1 (0-6)	Total/NA	Solid	8021B	1111
890-1502-93	SW-2 (0-6)	Total/NA	Solid	8021B	1111
890-1502-94	SW-3 (0-6)	Total/NA	Solid	8021B	1111
890-1502-95	SW-4 (0-6)	Total/NA	Solid	8021B	1111
890-1502-96	SW-5 (0-6)	Total/NA	Solid	8021B	1111
890-1502-97	SW-6 (0-6)	Total/NA	Solid	8021B	1111
890-1502-98	SW-7 (0-6)	Total/NA	Solid	8021B	1111
890-1502-99	SW-8 (0-6)	Total/NA	Solid	8021B	111
890-1502-100	SW-9 (0-6)	Total/NA	Solid	8021B	1111
890-1502-101	SW-10 (0-6)	Total/NA	Solid	8021B	111
890-1502-102	SW-11 (0-6)	Total/NA	Solid	8021B	111
890-1502-103	SW-12 (10)	Total/NA	Solid	8021B	111
890-1502-104	SW-13 (15)	Total/NA	Solid	8021B	1111
890-1502-105	SW-14 (15)	Total/NA	Solid	8021B	111
890-1502-106	SW-15 (15)	Total/NA	Solid	8021B	1111
890-1502-107	SW-16 (15)	Total/NA	Solid	8021B	111
890-1502-108	SW-17 (15)	Total/NA	Solid	8021B	111
890-1502-109	SW-18 (15)	Total/NA	Solid	8021B	111
890-1502-110	SW-19 (15)	Total/NA	Solid	8021B	111
890-1502-111	SW-20 (15)	Total/NA	Solid	8021B	111
890-1502-112	SW-21 (15)	Total/NA	Solid	8021B	111 ⁻
890-1502-113	SW-22 (15)	Total/NA	Solid	8021B	111 ⁻
890-1502-114	SW-23 (15)	Total/NA	Solid	8021B	111
890-1502-115	SW-24 (15)	Total/NA	Solid	8021B	111
890-1502-116	SW-25 (15)	Total/NA	Solid	8021B	111 ⁻
890-1502-117	SW-26 (15)	Total/NA	Solid	8021B	1111
890-1502-118	SW-27 (15)	Total/NA	Solid	8021B	111
890-1502-119	SW-28 (15)	Total/NA	Solid	8021B	111
MB 880-11113/5-A	Method Blank	Total/NA	Solid	8021B	111
MB 880-11114/5-A	Method Blank	Total/NA	Solid	8021B	111
LCS 880-11113/1-A	Lab Control Sample	Total/NA	Solid	8021B	111
LCS 880-11114/1-A	Lab Control Sample	Total/NA	Solid	8021B	111
LCSD 880-11113/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111
LCSD 880-11114/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111
890-1502-81 MS	BH-81 (15)	Total/NA	Solid	8021B	111
890-1502-81 MSD	BH-81 (15)	Total/NA	Solid	8021B	111
890-1502-101 MS	SW-10 (0-6)	Total/NA	Solid	8021B	111
890-1502-101 MSD	SW-10 (0-6)	Total/NA	Solid	8021B	111:

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Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC VOA

Prep Batch: 11388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-53	BH-53 (15)	Total/NA	Solid	5035	
MB 880-11388/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11388/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11388/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-53 MS	BH-53 (15)	Total/NA	Solid	5035	
890-1502-53 MSD	BH-53 (15)	Total/NA	Solid	5035	

Analysis Batch: 11420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-53	BH-53 (15)	Total/NA	Solid	8021B	11388
MB 880-11388/5-A	Method Blank	Total/NA	Solid	8021B	11388
LCS 880-11388/1-A	Lab Control Sample	Total/NA	Solid	8021B	11388
LCSD 880-11388/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11388
890-1502-53 MS	BH-53 (15)	Total/NA	Solid	8021B	11388
890-1502-53 MSD	BH-53 (15)	Total/NA	Solid	8021B	11388

Prep Batch: 11445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-57	BH-57 (15)	Total/NA	Solid	5035	<u> </u>
890-1502-58	BH-58 (15)	Total/NA	Solid	5035	
890-1502-59	BH-59 (15)	Total/NA	Solid	5035	
890-1502-60	BH-60 (15)	Total/NA	Solid	5035	
890-1502-120	SW-29 (15)	Total/NA	Solid	5035	
MB 880-11445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1520-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1520-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 11449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-57	BH-57 (15)	Total/NA	Solid	8021B	11445
890-1502-58	BH-58 (15)	Total/NA	Solid	8021B	11445
890-1502-59	BH-59 (15)	Total/NA	Solid	8021B	11445
890-1502-60	BH-60 (15)	Total/NA	Solid	8021B	11445
890-1502-120	SW-29 (15)	Total/NA	Solid	8021B	11445
MB 880-11445/5-A	Method Blank	Total/NA	Solid	8021B	11445
MB 880-11449/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-11445/1-A	Lab Control Sample	Total/NA	Solid	8021B	11445
LCS 880-11449/3	Lab Control Sample	Total/NA	Solid	8021B	
LCSD 880-11445/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11445
LCSD 880-11449/4	Lab Control Sample Dup	Total/NA	Solid	8021B	
890-1520-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	11445
890-1520-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11445

Analysis Batch: 11768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-1	BH-1 (6)	Total/NA	Solid	Total BTEX	
890-1502-2	BH-2 (6)	Total/NA	Solid	Total BTEX	
890-1502-3	BH-3 (6)	Total/NA	Solid	Total BTEX	
890-1502-4	BH-4 (6)	Total/NA	Solid	Total BTEX	

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Analysis Batch: 11768 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-1502-5	BH-5 (6)	Total/NA	Solid	Total BTEX	
390-1502-6	BH-6 (6)	Total/NA	Solid	Total BTEX	
890-1502-7	BH-7 (6)	Total/NA	Solid	Total BTEX	
390-1502-8	BH-8 (6)	Total/NA	Solid	Total BTEX	
390-1502-9	BH-9 (6)	Total/NA	Solid	Total BTEX	
390-1502-10	BH-10 (6)	Total/NA	Solid	Total BTEX	
390-1502-11	BH-11 (6)	Total/NA	Solid	Total BTEX	
390-1502-12	BH-12 (6)	Total/NA	Solid	Total BTEX	
390-1502-13	BH-13 (6)	Total/NA	Solid	Total BTEX	
890-1502-14	BH-14 (6)	Total/NA	Solid	Total BTEX	
390-1502-15	BH-15 (6)	Total/NA	Solid	Total BTEX	
390-1502-16	BH-16 (6)	Total/NA	Solid	Total BTEX	
390-1502-17	BH-17 (6)	Total/NA	Solid	Total BTEX	
390-1502-18	BH-18 (6)	Total/NA	Solid	Total BTEX	
390-1502-19	BH-19 (6)	Total/NA	Solid	Total BTEX	
890-1502-20	BH-20 (6)	Total/NA	Solid	Total BTEX	
890-1502-21	BH-21 (6)	Total/NA	Solid	Total BTEX	
890-1502-22	BH-22 (6)	Total/NA	Solid	Total BTEX	
890-1502-23	BH-23 (6)	Total/NA	Solid	Total BTEX	
890-1502-24	BH-24 (6)	Total/NA	Solid	Total BTEX	
890-1502-25	BH-25 (15)	Total/NA	Solid	Total BTEX	
890-1502-26	BH-26 (15)	Total/NA	Solid	Total BTEX	
		Total/NA			
890-1502-27	BH-27 (15)		Solid	Total BTEX	
890-1502-28	BH-28 (15)	Total/NA	Solid	Total BTEX	
390-1502-29	BH-29 (15)	Total/NA	Solid	Total BTEX	
890-1502-30	BH-30 (15)	Total/NA	Solid	Total BTEX	
390-1502-31	BH-31 (15)	Total/NA	Solid	Total BTEX	
390-1502-32	BH-32 (15)	Total/NA	Solid	Total BTEX	
390-1502-33	BH-33 (15)	Total/NA	Solid	Total BTEX	
390-1502-34	BH-34 (15)	Total/NA	Solid	Total BTEX	
390-1502-35	BH-35 (15)	Total/NA	Solid	Total BTEX	
390-1502-36	BH-36 (15)	Total/NA	Solid	Total BTEX	
390-1502-37	BH-37 (15)	Total/NA	Solid	Total BTEX	
390-1502-38	BH-38 (15)	Total/NA	Solid	Total BTEX	
890-1502-39	BH-39 (15)	Total/NA	Solid	Total BTEX	
890-1502-40	BH-40 (15)	Total/NA	Solid	Total BTEX	
390-1502-41	BH-41 (15)	Total/NA	Solid	Total BTEX	
390-1502-42	BH-42 (15)	Total/NA	Solid	Total BTEX	
890-1502-43	BH-43 (15)	Total/NA	Solid	Total BTEX	
890-1502-44	BH-44 (15)	Total/NA	Solid	Total BTEX	
890-1502-45	BH-45 (15)	Total/NA	Solid	Total BTEX	
890-1502-46	BH-46 (15)	Total/NA	Solid	Total BTEX	
890-1502-47	BH-47 (15)	Total/NA	Solid	Total BTEX	
890-1502-48	BH-48 (15)	Total/NA	Solid	Total BTEX	
890-1502-49	BH-49 (15)	Total/NA	Solid	Total BTEX	
890-1502-50	BH-50 (15)	Total/NA	Solid	Total BTEX	
890-1502-51	BH-51 (15)	Total/NA	Solid	Total BTEX	
890-1502-52	BH-52 (15)	Total/NA	Solid	Total BTEX	
390-1502-53	BH-53 (15)	Total/NA	Solid	Total BTEX	
890-1502-54	BH-54 (15)	Total/NA	Solid	Total BTEX	
890-1502-55	BH-55 (15)	Total/NA	Solid	Total BTEX	

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GC VOA (Continued)

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC VOA (Continued)

Analysis Batch: 11768 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-56	BH-56 (15)	Total/NA	Solid	Total BTEX	
390-1502-57	BH-57 (15)	Total/NA	Solid	Total BTEX	
390-1502-58	BH-58 (15)	Total/NA	Solid	Total BTEX	
390-1502-59	BH-59 (15)	Total/NA	Solid	Total BTEX	
390-1502-60	BH-60 (15)	Total/NA	Solid	Total BTEX	
390-1502-61	BH-61 (15)	Total/NA	Solid	Total BTEX	
390-1502-62	BH-62 (15)	Total/NA	Solid	Total BTEX	
390-1502-63	BH-63 (15)	Total/NA	Solid	Total BTEX	
390-1502-64	BH-64 (15)	Total/NA	Solid	Total BTEX	
390-1502-65	BH-65 (15)	Total/NA	Solid	Total BTEX	
390-1502-66	BH-66 (15)	Total/NA	Solid	Total BTEX	
390-1502-67	BH-67 (15)	Total/NA	Solid	Total BTEX	
390-1502-68	BH-68 (15)	Total/NA	Solid	Total BTEX	
390-1502-69	BH-69 (15)	Total/NA	Solid	Total BTEX	
390-1502-70	BH-70 (15)	Total/NA	Solid	Total BTEX	
390-1502-71	BH-71 (15)	Total/NA	Solid	Total BTEX	
390-1502-72	BH-72 (15)	Total/NA	Solid	Total BTEX	
390-1502-73	BH-73 (15)	Total/NA	Solid	Total BTEX	
390-1502-74	BH-74 (15)	Total/NA	Solid	Total BTEX	
390-1502-75	BH-75 (15)	Total/NA	Solid	Total BTEX	
390-1502-76	BH-76 (15)	Total/NA	Solid	Total BTEX	
390-1502-77	BH-77 (15)	Total/NA	Solid	Total BTEX	
390-1502-78	BH-78 (15)	Total/NA	Solid	Total BTEX	
390-1502-78		Total/NA	Solid	Total BTEX	
390-1502-79 390-1502-80	BH-79 (15) BH-80 (15)	Total/NA	Solid	Total BTEX	
		Total/NA	Solid		
890-1502-81	BH-81 (15)			Total BTEX	
390-1502-82	BH-82 (15)	Total/NA	Solid	Total BTEX	
890-1502-83	BH-83 (15)	Total/NA	Solid	Total BTEX	
390-1502-84	BH-84 (15)	Total/NA	Solid	Total BTEX	
390-1502-85	BH-85 (15)	Total/NA	Solid	Total BTEX	
390-1502-86	BH-86 (15)	Total/NA	Solid	Total BTEX	
390-1502-87	BH-87 (15)	Total/NA	Solid	Total BTEX	
390-1502-88	BH-88 (15)	Total/NA	Solid	Total BTEX	
390-1502-89	BH-89 (15)	Total/NA	Solid	Total BTEX	
390-1502-90	BH90 (RS) (6)	Total/NA	Solid	Total BTEX	
390-1502-91	BH-91 (RS) (6)	Total/NA	Solid	Total BTEX	
390-1502-92	SW-1 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-93	SW-2 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-94	SW-3 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-95	SW-4 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-96	SW-5 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-97	SW-6 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-98	SW-7 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-99	SW-8 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-100	SW-9 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-101	SW-10 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-102	SW-11 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-103	SW-12 (10)	Total/NA	Solid	Total BTEX	
390-1502-104	SW-13 (15)	Total/NA	Solid	Total BTEX	
890-1502-105	SW-14 (15)	Total/NA	Solid	Total BTEX	
890-1502-106	SW-15 (15)	Total/NA	Solid	Total BTEX	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC VOA (Continued)

Analysis Batch: 11768 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1502-107	SW-16 (15)	Total/NA	Solid	Total BTEX	
890-1502-108	SW-17 (15)	Total/NA	Solid	Total BTEX	
890-1502-109	SW-18 (15)	Total/NA	Solid	Total BTEX	
890-1502-110	SW-19 (15)	Total/NA	Solid	Total BTEX	
890-1502-111	SW-20 (15)	Total/NA	Solid	Total BTEX	
890-1502-112	SW-21 (15)	Total/NA	Solid	Total BTEX	
890-1502-113	SW-22 (15)	Total/NA	Solid	Total BTEX	
890-1502-114	SW-23 (15)	Total/NA	Solid	Total BTEX	
890-1502-115	SW-24 (15)	Total/NA	Solid	Total BTEX	
890-1502-116	SW-25 (15)	Total/NA	Solid	Total BTEX	
890-1502-117	SW-26 (15)	Total/NA	Solid	Total BTEX	
890-1502-118	SW-27 (15)	Total/NA	Solid	Total BTEX	
890-1502-119	SW-28 (15)	Total/NA	Solid	Total BTEX	
890-1502-120	SW-29 (15)	Total/NA	Solid	Total BTEX	
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	Total BTEX	
890-1502-122	SW-31 (RS) (4)	Total/NA	Solid	Total BTEX	
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	Total BTEX	
890-1502-124	SW-33 (RS) (8)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 11223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-1	BH-1 (6)	Total/NA	Solid	8015NM Prep	
890-1502-2	BH-2 (6)	Total/NA	Solid	8015NM Prep	
890-1502-3	BH-3 (6)	Total/NA	Solid	8015NM Prep	
890-1502-4	BH-4 (6)	Total/NA	Solid	8015NM Prep	
890-1502-5	BH-5 (6)	Total/NA	Solid	8015NM Prep	
890-1502-6	BH-6 (6)	Total/NA	Solid	8015NM Prep	
390-1502-7	BH-7 (6)	Total/NA	Solid	8015NM Prep	
390-1502-8	BH-8 (6)	Total/NA	Solid	8015NM Prep	
390-1502-9	BH-9 (6)	Total/NA	Solid	8015NM Prep	
390-1502-10	BH-10 (6)	Total/NA	Solid	8015NM Prep	
390-1502-11	BH-11 (6)	Total/NA	Solid	8015NM Prep	
390-1502-12	BH-12 (6)	Total/NA	Solid	8015NM Prep	
890-1502-13	BH-13 (6)	Total/NA	Solid	8015NM Prep	
390-1502-14	BH-14 (6)	Total/NA	Solid	8015NM Prep	
390-1502-15	BH-15 (6)	Total/NA	Solid	8015NM Prep	
390-1502-16	BH-16 (6)	Total/NA	Solid	8015NM Prep	
390-1502-17	BH-17 (6)	Total/NA	Solid	8015NM Prep	
390-1502-18	BH-18 (6)	Total/NA	Solid	8015NM Prep	
390-1502-19	BH-19 (6)	Total/NA	Solid	8015NM Prep	
390-1502-20	BH-20 (6)	Total/NA	Solid	8015NM Prep	
MB 880-11223/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
CS 880-11223/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
CSD 880-11223/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
390-1502-1 MS	BH-1 (6)	Total/NA	Solid	8015NM Prep	
390-1502-1 MSD	BH-1 (6)	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1
SDG: 212C-MD-02230

GC Semi VOA

Prep Batch: 11255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1502-21	BH-21 (6)	Total/NA	Solid	8015NM Prep	
890-1502-22	BH-22 (6)	Total/NA	Solid	8015NM Prep	
890-1502-23	BH-23 (6)	Total/NA	Solid	8015NM Prep	
890-1502-24	BH-24 (6)	Total/NA	Solid	8015NM Prep	
890-1502-25	BH-25 (15)	Total/NA	Solid	8015NM Prep	
890-1502-26	BH-26 (15)	Total/NA	Solid	8015NM Prep	
890-1502-27	BH-27 (15)	Total/NA	Solid	8015NM Prep	
890-1502-28	BH-28 (15)	Total/NA	Solid	8015NM Prep	
890-1502-29	BH-29 (15)	Total/NA	Solid	8015NM Prep	
890-1502-30	BH-30 (15)	Total/NA	Solid	8015NM Prep	
890-1502-31	BH-31 (15)	Total/NA	Solid	8015NM Prep	
890-1502-32	BH-32 (15)	Total/NA	Solid	8015NM Prep	
890-1502-33	BH-33 (15)	Total/NA	Solid	8015NM Prep	
890-1502-34	BH-34 (15)	Total/NA	Solid	8015NM Prep	
890-1502-35	BH-35 (15)	Total/NA	Solid	8015NM Prep	
890-1502-36	BH-36 (15)	Total/NA	Solid	8015NM Prep	
890-1502-37	BH-37 (15)	Total/NA	Solid	8015NM Prep	
890-1502-38	BH-38 (15)	Total/NA	Solid	8015NM Prep	
890-1502-39	BH-39 (15)	Total/NA	Solid	8015NM Prep	
890-1502-40	BH-40 (15)	Total/NA	Solid	8015NM Prep	
MB 880-11255/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11255/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11255/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1502-21 MS	BH-21 (6)	Total/NA	Solid	8015NM Prep	
890-1502-21 MSD	BH-21 (6)	Total/NA	Solid	8015NM Prep	

Prep Batch: 11273

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1502-41	BH-41 (15)	Total/NA	Solid	8015NM Prep	
890-1502-42	BH-42 (15)	Total/NA	Solid	8015NM Prep	
890-1502-43	BH-43 (15)	Total/NA	Solid	8015NM Prep	
890-1502-44	BH-44 (15)	Total/NA	Solid	8015NM Prep	
890-1502-45	BH-45 (15)	Total/NA	Solid	8015NM Prep	
890-1502-46	BH-46 (15)	Total/NA	Solid	8015NM Prep	
890-1502-47	BH-47 (15)	Total/NA	Solid	8015NM Prep	
890-1502-48	BH-48 (15)	Total/NA	Solid	8015NM Prep	
890-1502-49	BH-49 (15)	Total/NA	Solid	8015NM Prep	
390-1502-50	BH-50 (15)	Total/NA	Solid	8015NM Prep	
390-1502-51	BH-51 (15)	Total/NA	Solid	8015NM Prep	
890-1502-52	BH-52 (15)	Total/NA	Solid	8015NM Prep	
390-1502-53	BH-53 (15)	Total/NA	Solid	8015NM Prep	
390-1502-54	BH-54 (15)	Total/NA	Solid	8015NM Prep	
890-1502-55	BH-55 (15)	Total/NA	Solid	8015NM Prep	
890-1502-56	BH-56 (15)	Total/NA	Solid	8015NM Prep	
390-1502-57	BH-57 (15)	Total/NA	Solid	8015NM Prep	
390-1502-58	BH-58 (15)	Total/NA	Solid	8015NM Prep	
390-1502-59	BH-59 (15)	Total/NA	Solid	8015NM Prep	
390-1502-60	BH-60 (15)	Total/NA	Solid	8015NM Prep	
MB 880-11273/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
_CS 880-11273/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11273/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

GC Semi VOA (Continued)

Prep Batch: 11273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-41 MS	BH-41 (15)	Total/NA	Solid	8015NM Prep	
890-1502-41 MSD	BH-41 (15)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-1	BH-1 (6)	Total/NA	Solid	8015B NM	11223
890-1502-2	BH-2 (6)	Total/NA	Solid	8015B NM	11223
890-1502-3	BH-3 (6)	Total/NA	Solid	8015B NM	11223
890-1502-4	BH-4 (6)	Total/NA	Solid	8015B NM	11223
890-1502-5	BH-5 (6)	Total/NA	Solid	8015B NM	11223
890-1502-6	BH-6 (6)	Total/NA	Solid	8015B NM	11223
890-1502-7	BH-7 (6)	Total/NA	Solid	8015B NM	11223
890-1502-8	BH-8 (6)	Total/NA	Solid	8015B NM	11223
890-1502-9	BH-9 (6)	Total/NA	Solid	8015B NM	11223
890-1502-10	BH-10 (6)	Total/NA	Solid	8015B NM	11223
890-1502-11	BH-11 (6)	Total/NA	Solid	8015B NM	11223
890-1502-12	BH-12 (6)	Total/NA	Solid	8015B NM	11223
890-1502-13	BH-13 (6)	Total/NA	Solid	8015B NM	11223
890-1502-14	BH-14 (6)	Total/NA	Solid	8015B NM	11223
890-1502-15	BH-15 (6)	Total/NA	Solid	8015B NM	11223
890-1502-16	BH-16 (6)	Total/NA	Solid	8015B NM	11223
890-1502-17	BH-17 (6)	Total/NA	Solid	8015B NM	11223
890-1502-18	BH-18 (6)	Total/NA	Solid	8015B NM	11223
890-1502-19	BH-19 (6)	Total/NA	Solid	8015B NM	11223
890-1502-20	BH-20 (6)	Total/NA	Solid	8015B NM	11223
MB 880-11223/1-A	Method Blank	Total/NA	Solid	8015B NM	11223
LCS 880-11223/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11223
LCSD 880-11223/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11223
890-1502-1 MS	BH-1 (6)	Total/NA	Solid	8015B NM	11223
890-1502-1 MSD	BH-1 (6)	Total/NA	Solid	8015B NM	11223

Analysis Batch: 11321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-21	BH-21 (6)	Total/NA	Solid	8015B NM	1125
890-1502-22	BH-22 (6)	Total/NA	Solid	8015B NM	1125
890-1502-23	BH-23 (6)	Total/NA	Solid	8015B NM	1125
890-1502-24	BH-24 (6)	Total/NA	Solid	8015B NM	1125
890-1502-25	BH-25 (15)	Total/NA	Solid	8015B NM	1125
890-1502-26	BH-26 (15)	Total/NA	Solid	8015B NM	1125
890-1502-27	BH-27 (15)	Total/NA	Solid	8015B NM	1125
890-1502-28	BH-28 (15)	Total/NA	Solid	8015B NM	1125
890-1502-29	BH-29 (15)	Total/NA	Solid	8015B NM	1125
890-1502-30	BH-30 (15)	Total/NA	Solid	8015B NM	1125
890-1502-31	BH-31 (15)	Total/NA	Solid	8015B NM	1125
890-1502-32	BH-32 (15)	Total/NA	Solid	8015B NM	1125
890-1502-33	BH-33 (15)	Total/NA	Solid	8015B NM	1125
890-1502-34	BH-34 (15)	Total/NA	Solid	8015B NM	1125
890-1502-35	BH-35 (15)	Total/NA	Solid	8015B NM	1125
890-1502-36	BH-36 (15)	Total/NA	Solid	8015B NM	1125
890-1502-37	BH-37 (15)	Total/NA	Solid	8015B NM	1125
890-1502-38	BH-38 (15)	Total/NA	Solid	8015B NM	1125

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Analysis Batch: 11321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-39	BH-39 (15)	Total/NA	Solid	8015B NM	11255
890-1502-40	BH-40 (15)	Total/NA	Solid	8015B NM	11255
MB 880-11255/1-A	Method Blank	Total/NA	Solid	8015B NM	11255
LCS 880-11255/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11255
LCSD 880-11255/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11255
890-1502-21 MS	BH-21 (6)	Total/NA	Solid	8015B NM	11255
890-1502-21 MSD	BH-21 (6)	Total/NA	Solid	8015B NM	11255

Analysis Batch: 11323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
390-1502-41	BH-41 (15)	Total/NA	Solid	8015B NM	1127
390-1502-42	BH-42 (15)	Total/NA	Solid	8015B NM	1127
390-1502-43	BH-43 (15)	Total/NA	Solid	8015B NM	1127
390-1502-44	BH-44 (15)	Total/NA	Solid	8015B NM	1127
390-1502-45	BH-45 (15)	Total/NA	Solid	8015B NM	1127
390-1502-46	BH-46 (15)	Total/NA	Solid	8015B NM	1127
390-1502-47	BH-47 (15)	Total/NA	Solid	8015B NM	1127
390-1502-48	BH-48 (15)	Total/NA	Solid	8015B NM	1127
390-1502-49	BH-49 (15)	Total/NA	Solid	8015B NM	1127
390-1502-50	BH-50 (15)	Total/NA	Solid	8015B NM	1127
390-1502-51	BH-51 (15)	Total/NA	Solid	8015B NM	1127
390-1502-52	BH-52 (15)	Total/NA	Solid	8015B NM	1127
390-1502-53	BH-53 (15)	Total/NA	Solid	8015B NM	1127
390-1502-54	BH-54 (15)	Total/NA	Solid	8015B NM	1127
390-1502-55	BH-55 (15)	Total/NA	Solid	8015B NM	1127
390-1502-56	BH-56 (15)	Total/NA	Solid	8015B NM	1127
390-1502-57	BH-57 (15)	Total/NA	Solid	8015B NM	11273
390-1502-58	BH-58 (15)	Total/NA	Solid	8015B NM	11273
390-1502-59	BH-59 (15)	Total/NA	Solid	8015B NM	1127
390-1502-60	BH-60 (15)	Total/NA	Solid	8015B NM	1127
390-1502-61	BH-61 (15)	Total/NA	Solid	8015B NM	11356
90-1502-62	BH-62 (15)	Total/NA	Solid	8015B NM	11350
390-1502-63	BH-63 (15)	Total/NA	Solid	8015B NM	11356
390-1502-64	BH-64 (15)	Total/NA	Solid	8015B NM	11356
390-1502-65	BH-65 (15)	Total/NA	Solid	8015B NM	11350
390-1502-66	BH-66 (15)	Total/NA	Solid	8015B NM	11356
390-1502-67	BH-67 (15)	Total/NA	Solid	8015B NM	11356
390-1502-68	BH-68 (15)	Total/NA	Solid	8015B NM	11356
390-1502-69	BH-69 (15)	Total/NA	Solid	8015B NM	11356
390-1502-70	BH-70 (15)	Total/NA	Solid	8015B NM	11356
390-1502-71	BH-71 (15)	Total/NA	Solid	8015B NM	11356
390-1502-72	BH-72 (15)	Total/NA	Solid	8015B NM	11356
390-1502-73	BH-73 (15)	Total/NA	Solid	8015B NM	11356
390-1502-74	BH-74 (15)	Total/NA	Solid	8015B NM	11356
390-1502-75	BH-75 (15)	Total/NA	Solid	8015B NM	11356
390-1502-76	BH-76 (15)	Total/NA	Solid	8015B NM	11356
390-1502-77	BH-77 (15)	Total/NA	Solid	8015B NM	11356
390-1502-78	BH-78 (15)	Total/NA	Solid	8015B NM	11356
390-1502-79	BH-79 (15)	Total/NA	Solid	8015B NM	11356
390-1502-80	BH-80 (15)	Total/NA	Solid	8015B NM	11356
MB 880-11273/1-A	Method Blank	Total/NA	Solid	8015B NM	1127

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Analysis Batch: 11323 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11356/1-A	Method Blank	Total/NA	Solid	8015B NM	11356
LCS 880-11273/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11273
LCS 880-11356/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11356
LCSD 880-11273/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11273
LCSD 880-11356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11356
890-1502-41 MS	BH-41 (15)	Total/NA	Solid	8015B NM	11273
890-1502-41 MSD	BH-41 (15)	Total/NA	Solid	8015B NM	11273
890-1502-61 MS	BH-61 (15)	Total/NA	Solid	8015B NM	11356
890-1502-61 MSD	BH-61 (15)	Total/NA	Solid	8015B NM	11356

Prep Batch: 11356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1502-61	BH-61 (15)	Total/NA	Solid	8015NM Prep	
890-1502-62	BH-62 (15)	Total/NA	Solid	8015NM Prep	
890-1502-63	BH-63 (15)	Total/NA	Solid	8015NM Prep	
890-1502-64	BH-64 (15)	Total/NA	Solid	8015NM Prep	
890-1502-65	BH-65 (15)	Total/NA	Solid	8015NM Prep	
890-1502-66	BH-66 (15)	Total/NA	Solid	8015NM Prep	
890-1502-67	BH-67 (15)	Total/NA	Solid	8015NM Prep	
890-1502-68	BH-68 (15)	Total/NA	Solid	8015NM Prep	
890-1502-69	BH-69 (15)	Total/NA	Solid	8015NM Prep	
890-1502-70	BH-70 (15)	Total/NA	Solid	8015NM Prep	
890-1502-71	BH-71 (15)	Total/NA	Solid	8015NM Prep	
890-1502-72	BH-72 (15)	Total/NA	Solid	8015NM Prep	
890-1502-73	BH-73 (15)	Total/NA	Solid	8015NM Prep	
890-1502-74	BH-74 (15)	Total/NA	Solid	8015NM Prep	
890-1502-75	BH-75 (15)	Total/NA	Solid	8015NM Prep	
890-1502-76	BH-76 (15)	Total/NA	Solid	8015NM Prep	
890-1502-77	BH-77 (15)	Total/NA	Solid	8015NM Prep	
890-1502-78	BH-78 (15)	Total/NA	Solid	8015NM Prep	
890-1502-79	BH-79 (15)	Total/NA	Solid	8015NM Prep	
890-1502-80	BH-80 (15)	Total/NA	Solid	8015NM Prep	
MB 880-11356/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11356/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1502-61 MS	BH-61 (15)	Total/NA	Solid	8015NM Prep	
890-1502-61 MSD	BH-61 (15)	Total/NA	Solid	8015NM Prep	

Prep Batch: 11364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-81	BH-81 (15)	Total/NA	Solid	8015NM Prep	
890-1502-82	BH-82 (15)	Total/NA	Solid	8015NM Prep	
890-1502-83	BH-83 (15)	Total/NA	Solid	8015NM Prep	
890-1502-84	BH-84 (15)	Total/NA	Solid	8015NM Prep	
890-1502-85	BH-85 (15)	Total/NA	Solid	8015NM Prep	
890-1502-86	BH-86 (15)	Total/NA	Solid	8015NM Prep	
890-1502-87	BH-87 (15)	Total/NA	Solid	8015NM Prep	
890-1502-88	BH-88 (15)	Total/NA	Solid	8015NM Prep	
890-1502-89	BH-89 (15)	Total/NA	Solid	8015NM Prep	
890-1502-90	BH90 (RS) (6)	Total/NA	Solid	8015NM Prep	
890-1502-91	BH-91 (RS) (6)	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Prep Batch: 11364 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-92	SW-1 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-93	SW-2 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-94	SW-3 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-95	SW-4 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-96	SW-5 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-97	SW-6 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-98	SW-7 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-99	SW-8 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-100	SW-9 (0-6)	Total/NA	Solid	8015NM Prep	
MB 880-11364/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11364/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11364/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1502-81 MS	BH-81 (15)	Total/NA	Solid	8015NM Prep	
890-1502-81 MSD	BH-81 (15)	Total/NA	Solid	8015NM Prep	

Prep Batch: 11375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-101	SW-10 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-102	SW-11 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-103	SW-12 (10)	Total/NA	Solid	8015NM Prep	
890-1502-104	SW-13 (15)	Total/NA	Solid	8015NM Prep	
890-1502-105	SW-14 (15)	Total/NA	Solid	8015NM Prep	
890-1502-106	SW-15 (15)	Total/NA	Solid	8015NM Prep	
890-1502-107	SW-16 (15)	Total/NA	Solid	8015NM Prep	
890-1502-108	SW-17 (15)	Total/NA	Solid	8015NM Prep	
890-1502-109	SW-18 (15)	Total/NA	Solid	8015NM Prep	
890-1502-110	SW-19 (15)	Total/NA	Solid	8015NM Prep	
890-1502-111	SW-20 (15)	Total/NA	Solid	8015NM Prep	
890-1502-112	SW-21 (15)	Total/NA	Solid	8015NM Prep	
890-1502-113	SW-22 (15)	Total/NA	Solid	8015NM Prep	
890-1502-114	SW-23 (15)	Total/NA	Solid	8015NM Prep	
890-1502-115	SW-24 (15)	Total/NA	Solid	8015NM Prep	
890-1502-116	SW-25 (15)	Total/NA	Solid	8015NM Prep	
890-1502-117	SW-26 (15)	Total/NA	Solid	8015NM Prep	
890-1502-118	SW-27 (15)	Total/NA	Solid	8015NM Prep	
890-1502-119	SW-28 (15)	Total/NA	Solid	8015NM Prep	
890-1502-120	SW-29 (15)	Total/NA	Solid	8015NM Prep	
MB 880-11375/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11375/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11375/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1502-101 MS	SW-10 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-101 MSD	SW-10 (0-6)	Total/NA	Solid	8015NM Prep	

Prep Batch: 11376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	8015NM Prep	
890-1502-122	SW-31 (RS) (4)	Total/NA	Solid	8015NM Prep	
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	8015NM Prep	
890-1502-124	SW-33 (RS) (8)	Total/NA	Solid	8015NM Prep	
MB 880-11376/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11376/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Prep Batch: 11376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-11376/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1502-121 MS	SW-30 (RS) (6)	Total/NA	Solid	8015NM Prep	
890-1502-121 MSD	SW-30 (RS) (6)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	8015B NM	11376
890-1502-122	SW-31 (RS) (4)	Total/NA	Solid	8015B NM	11376
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	8015B NM	11376
890-1502-124	SW-33 (RS) (8)	Total/NA	Solid	8015B NM	11376
MB 880-11376/1-A	Method Blank	Total/NA	Solid	8015B NM	11376
LCS 880-11376/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11376
LCSD 880-11376/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11376
890-1502-121 MS	SW-30 (RS) (6)	Total/NA	Solid	8015B NM	11376
890-1502-121 MSD	SW-30 (RS) (6)	Total/NA	Solid	8015B NM	11376

Analysis Batch: 11416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-81	BH-81 (15)	Total/NA	Solid	8015B NM	11364
890-1502-82	BH-82 (15)	Total/NA	Solid	8015B NM	11364
890-1502-83	BH-83 (15)	Total/NA	Solid	8015B NM	11364
890-1502-84	BH-84 (15)	Total/NA	Solid	8015B NM	11364
890-1502-85	BH-85 (15)	Total/NA	Solid	8015B NM	11364
890-1502-86	BH-86 (15)	Total/NA	Solid	8015B NM	11364
890-1502-87	BH-87 (15)	Total/NA	Solid	8015B NM	11364
890-1502-88	BH-88 (15)	Total/NA	Solid	8015B NM	11364
890-1502-89	BH-89 (15)	Total/NA	Solid	8015B NM	11364
890-1502-90	BH90 (RS) (6)	Total/NA	Solid	8015B NM	11364
890-1502-91	BH-91 (RS) (6)	Total/NA	Solid	8015B NM	11364
890-1502-92	SW-1 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-93	SW-2 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-94	SW-3 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-95	SW-4 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-96	SW-5 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-97	SW-6 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-98	SW-7 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-99	SW-8 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-100	SW-9 (0-6)	Total/NA	Solid	8015B NM	11364
MB 880-11364/1-A	Method Blank	Total/NA	Solid	8015B NM	11364
LCS 880-11364/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11364
LCSD 880-11364/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11364
890-1502-81 MS	BH-81 (15)	Total/NA	Solid	8015B NM	11364
890-1502-81 MSD	BH-81 (15)	Total/NA	Solid	8015B NM	11364

Analysis Batch: 11418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-101	SW-10 (0-6)	Total/NA	Solid	8015B NM	11375
890-1502-102	SW-11 (0-6)	Total/NA	Solid	8015B NM	11375
890-1502-103	SW-12 (10)	Total/NA	Solid	8015B NM	11375
890-1502-104	SW-13 (15)	Total/NA	Solid	8015B NM	11375
890-1502-105	SW-14 (15)	Total/NA	Solid	8015B NM	11375

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

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GC Semi VOA (Continued)

Analysis Batch: 11418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-106	SW-15 (15)	Total/NA	Solid	8015B NM	11375
890-1502-107	SW-16 (15)	Total/NA	Solid	8015B NM	11375
890-1502-108	SW-17 (15)	Total/NA	Solid	8015B NM	11375
890-1502-109	SW-18 (15)	Total/NA	Solid	8015B NM	11375
890-1502-110	SW-19 (15)	Total/NA	Solid	8015B NM	11375
890-1502-111	SW-20 (15)	Total/NA	Solid	8015B NM	11375
890-1502-112	SW-21 (15)	Total/NA	Solid	8015B NM	11375
890-1502-113	SW-22 (15)	Total/NA	Solid	8015B NM	11375
890-1502-114	SW-23 (15)	Total/NA	Solid	8015B NM	11375
890-1502-115	SW-24 (15)	Total/NA	Solid	8015B NM	11375
890-1502-116	SW-25 (15)	Total/NA	Solid	8015B NM	11375
890-1502-117	SW-26 (15)	Total/NA	Solid	8015B NM	11375
890-1502-118	SW-27 (15)	Total/NA	Solid	8015B NM	11375
890-1502-119	SW-28 (15)	Total/NA	Solid	8015B NM	11375
890-1502-120	SW-29 (15)	Total/NA	Solid	8015B NM	11375
MB 880-11375/1-A	Method Blank	Total/NA	Solid	8015B NM	11375
LCS 880-11375/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11375
LCSD 880-11375/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11375
890-1502-101 MS	SW-10 (0-6)	Total/NA	Solid	8015B NM	11375
890-1502-101 MSD	SW-10 (0-6)	Total/NA	Solid	8015B NM	11375

Analysis Batch: 11598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1502-1	BH-1 (6)	Total/NA	Solid	8015 NM	
390-1502-2	BH-2 (6)	Total/NA	Solid	8015 NM	
390-1502-3	BH-3 (6)	Total/NA	Solid	8015 NM	
390-1502-4	BH-4 (6)	Total/NA	Solid	8015 NM	
390-1502-5	BH-5 (6)	Total/NA	Solid	8015 NM	
390-1502-6	BH-6 (6)	Total/NA	Solid	8015 NM	
390-1502-7	BH-7 (6)	Total/NA	Solid	8015 NM	
390-1502-8	BH-8 (6)	Total/NA	Solid	8015 NM	
390-1502-9	BH-9 (6)	Total/NA	Solid	8015 NM	
890-1502-10	BH-10 (6)	Total/NA	Solid	8015 NM	
390-1502-11	BH-11 (6)	Total/NA	Solid	8015 NM	
390-1502-12	BH-12 (6)	Total/NA	Solid	8015 NM	
390-1502-13	BH-13 (6)	Total/NA	Solid	8015 NM	
390-1502-14	BH-14 (6)	Total/NA	Solid	8015 NM	
390-1502-15	BH-15 (6)	Total/NA	Solid	8015 NM	
390-1502-16	BH-16 (6)	Total/NA	Solid	8015 NM	
390-1502-17	BH-17 (6)	Total/NA	Solid	8015 NM	
390-1502-18	BH-18 (6)	Total/NA	Solid	8015 NM	
390-1502-19	BH-19 (6)	Total/NA	Solid	8015 NM	
390-1502-20	BH-20 (6)	Total/NA	Solid	8015 NM	
390-1502-21	BH-21 (6)	Total/NA	Solid	8015 NM	
390-1502-22	BH-22 (6)	Total/NA	Solid	8015 NM	
390-1502-23	BH-23 (6)	Total/NA	Solid	8015 NM	
390-1502-24	BH-24 (6)	Total/NA	Solid	8015 NM	
390-1502-25	BH-25 (15)	Total/NA	Solid	8015 NM	
390-1502-26	BH-26 (15)	Total/NA	Solid	8015 NM	
390-1502-27	BH-27 (15)	Total/NA	Solid	8015 NM	
390-1502-28	BH-28 (15)	Total/NA	Solid	8015 NM	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

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GC Semi VOA (Continued)

Analysis Batch: 11598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-29	BH-29 (15)	Total/NA	Solid	8015 NM	
390-1502-30	BH-30 (15)	Total/NA	Solid	8015 NM	
390-1502-31	BH-31 (15)	Total/NA	Solid	8015 NM	
390-1502-32	BH-32 (15)	Total/NA	Solid	8015 NM	
390-1502-33	BH-33 (15)	Total/NA	Solid	8015 NM	
390-1502-34	BH-34 (15)	Total/NA	Solid	8015 NM	
390-1502-35	BH-35 (15)	Total/NA	Solid	8015 NM	
390-1502-36	BH-36 (15)	Total/NA	Solid	8015 NM	
390-1502-37	BH-37 (15)	Total/NA	Solid	8015 NM	
390-1502-38	BH-38 (15)	Total/NA	Solid	8015 NM	
390-1502-39	BH-39 (15)	Total/NA	Solid	8015 NM	
390-1502-40	BH-40 (15)	Total/NA	Solid	8015 NM	
390-1502-41	BH-41 (15)	Total/NA	Solid	8015 NM	
390-1502-42	BH-42 (15)	Total/NA	Solid	8015 NM	
390-1502-43	BH-43 (15)	Total/NA	Solid	8015 NM	
390-1502-44	BH-44 (15)	Total/NA	Solid	8015 NM	
390-1502-45	BH-45 (15)	Total/NA	Solid	8015 NM	
390-1502-46	BH-46 (15)	Total/NA	Solid	8015 NM	
390-1502-47	BH-47 (15)	Total/NA	Solid	8015 NM	
390-1502-48	BH-48 (15)	Total/NA	Solid	8015 NM	
390-1502-49	BH-49 (15)	Total/NA	Solid	8015 NM	
390-1502-49 390-1502-50	BH-50 (15)	Total/NA	Solid	8015 NM	
		Total/NA			
890-1502-51	BH-51 (15)		Solid	8015 NM	
390-1502-52	BH-52 (15)	Total/NA	Solid	8015 NM	
390-1502-53	BH-53 (15)	Total/NA	Solid	8015 NM	
390-1502-54	BH-54 (15)	Total/NA	Solid	8015 NM	
390-1502-55	BH-55 (15)	Total/NA	Solid	8015 NM	
390-1502-56	BH-56 (15)	Total/NA	Solid	8015 NM	
390-1502-57	BH-57 (15)	Total/NA	Solid	8015 NM	
390-1502-58	BH-58 (15)	Total/NA	Solid	8015 NM	
390-1502-59	BH-59 (15)	Total/NA	Solid	8015 NM	
390-1502-60	BH-60 (15)	Total/NA	Solid	8015 NM	
390-1502-61	BH-61 (15)	Total/NA	Solid	8015 NM	
390-1502-62	BH-62 (15)	Total/NA	Solid	8015 NM	
390-1502-63	BH-63 (15)	Total/NA	Solid	8015 NM	
390-1502-64	BH-64 (15)	Total/NA	Solid	8015 NM	
390-1502-65	BH-65 (15)	Total/NA	Solid	8015 NM	
390-1502-66	BH-66 (15)	Total/NA	Solid	8015 NM	
390-1502-67	BH-67 (15)	Total/NA	Solid	8015 NM	
390-1502-68	BH-68 (15)	Total/NA	Solid	8015 NM	
390-1502-69	BH-69 (15)	Total/NA	Solid	8015 NM	
390-1502-70	BH-70 (15)	Total/NA	Solid	8015 NM	
390-1502-71	BH-71 (15)	Total/NA	Solid	8015 NM	
390-1502-72	BH-72 (15)	Total/NA	Solid	8015 NM	
390-1502-73	BH-73 (15)	Total/NA	Solid	8015 NM	
390-1502-74	BH-74 (15)	Total/NA	Solid	8015 NM	
390-1502-75	BH-75 (15)	Total/NA	Solid	8015 NM	
390-1502-76	BH-76 (15)	Total/NA	Solid	8015 NM	
390-1502-77	BH-77 (15)	Total/NA	Solid	8015 NM	
390-1502-78	BH-78 (15)	Total/NA	Solid	8015 NM	
890-1502-79	BH-79 (15)	Total/NA	Solid	8015 NM	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Analysis Batch: 11598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-80	BH-80 (15)	Total/NA	Solid	8015 NM	
890-1502-81	BH-81 (15)	Total/NA	Solid	8015 NM	
890-1502-82	BH-82 (15)	Total/NA	Solid	8015 NM	
890-1502-83	BH-83 (15)	Total/NA	Solid	8015 NM	
890-1502-84	BH-84 (15)	Total/NA	Solid	8015 NM	
890-1502-85	BH-85 (15)	Total/NA	Solid	8015 NM	
890-1502-86	BH-86 (15)	Total/NA	Solid	8015 NM	
890-1502-87	BH-87 (15)	Total/NA	Solid	8015 NM	
890-1502-88	BH-88 (15)	Total/NA	Solid	8015 NM	
890-1502-89	BH-89 (15)	Total/NA	Solid	8015 NM	
890-1502-90	BH90 (RS) (6)	Total/NA	Solid	8015 NM	
890-1502-91	BH-91 (RS) (6)	Total/NA	Solid	8015 NM	
890-1502-92	SW-1 (0-6)	Total/NA	Solid	8015 NM	
890-1502-93	SW-2 (0-6)	Total/NA	Solid	8015 NM	
890-1502-94	SW-3 (0-6)	Total/NA	Solid	8015 NM	
890-1502-95	SW-4 (0-6)	Total/NA	Solid	8015 NM	
890-1502-96	SW-5 (0-6)	Total/NA	Solid	8015 NM	
890-1502-97	SW-6 (0-6)	Total/NA	Solid	8015 NM	
890-1502-98	SW-7 (0-6)	Total/NA	Solid	8015 NM	
890-1502-99	SW-8 (0-6)	Total/NA	Solid	8015 NM	
890-1502-100	SW-9 (0-6)	Total/NA	Solid	8015 NM	
890-1502-101	SW-10 (0-6)	Total/NA	Solid	8015 NM	
890-1502-102	SW-11 (0-6)	Total/NA	Solid	8015 NM	
890-1502-103	SW-12 (10)	Total/NA	Solid	8015 NM	
890-1502-104	SW-13 (15)	Total/NA	Solid	8015 NM	
890-1502-105	SW-14 (15)	Total/NA	Solid	8015 NM	
890-1502-106	SW-15 (15)	Total/NA	Solid	8015 NM	
890-1502-107	SW-16 (15)	Total/NA	Solid	8015 NM	
890-1502-108	SW-17 (15)	Total/NA	Solid	8015 NM	
890-1502-109	SW-18 (15)	Total/NA	Solid	8015 NM	
890-1502-110	SW-19 (15)	Total/NA	Solid	8015 NM	
890-1502-111	SW-20 (15)	Total/NA	Solid	8015 NM	
890-1502-112	SW-21 (15)	Total/NA	Solid	8015 NM	
890-1502-113	SW-22 (15)	Total/NA	Solid	8015 NM	
890-1502-114	SW-23 (15)	Total/NA	Solid	8015 NM	
890-1502-115	SW-24 (15)	Total/NA	Solid	8015 NM	
890-1502-116	SW-25 (15)	Total/NA	Solid	8015 NM	
890-1502-117	SW-26 (15)	Total/NA	Solid	8015 NM	
890-1502-118	SW-27 (15)	Total/NA	Solid	8015 NM	
890-1502-119	SW-28 (15)	Total/NA	Solid	8015 NM	
890-1502-120	SW-29 (15)	Total/NA	Solid	8015 NM	
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	8015 NM	
890-1502-122	SW-30 (RS) (4)	Total/NA	Solid	8015 NM	
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	8015 NM	
890-1502-124	SW-32 (RS) (8)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 11227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-1	BH-1 (6)	Soluble	Solid	DI Leach	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

HPLC/IC (Continued)

Leach Batch: 11227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-2	BH-2 (6)	Soluble	Solid	DI Leach	
890-1502-3	BH-3 (6)	Soluble	Solid	DI Leach	
MB 880-11227/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11227/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11227/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1499-A-1-H MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1499-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 11233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-92	SW-1 (0-6)	Soluble	Solid	DI Leach	
890-1502-93	SW-2 (0-6)	Soluble	Solid	DI Leach	
890-1502-94	SW-3 (0-6)	Soluble	Solid	DI Leach	
890-1502-95	SW-4 (0-6)	Soluble	Solid	DI Leach	
890-1502-96	SW-5 (0-6)	Soluble	Solid	DI Leach	
890-1502-97	SW-6 (0-6)	Soluble	Solid	DI Leach	
890-1502-98	SW-7 (0-6)	Soluble	Solid	DI Leach	
890-1502-99	SW-8 (0-6)	Soluble	Solid	DI Leach	
890-1502-100	SW-9 (0-6)	Soluble	Solid	DI Leach	
890-1502-101	SW-10 (0-6)	Soluble	Solid	DI Leach	
MB 880-11233/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11233/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11233/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1502-92 MS	SW-1 (0-6)	Soluble	Solid	DI Leach	
890-1502-92 MSD	SW-1 (0-6)	Soluble	Solid	DI Leach	

Leach Batch: 11236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1502-4	BH-4 (6)	Soluble	Solid	DI Leach	_
890-1502-102	SW-11 (0-6)	Soluble	Solid	DI Leach	
890-1502-103	SW-12 (10)	Soluble	Solid	DI Leach	
890-1502-104	SW-13 (15)	Soluble	Solid	DI Leach	
890-1502-105	SW-14 (15)	Soluble	Solid	DI Leach	
890-1502-106	SW-15 (15)	Soluble	Solid	DI Leach	
890-1502-107	SW-16 (15)	Soluble	Solid	DI Leach	
890-1502-108	SW-17 (15)	Soluble	Solid	DI Leach	
890-1502-109	SW-18 (15)	Soluble	Solid	DI Leach	
890-1502-110	SW-19 (15)	Soluble	Solid	DI Leach	
890-1502-111	SW-20 (15)	Soluble	Solid	DI Leach	
890-1502-112	SW-21 (15)	Soluble	Solid	DI Leach	
890-1502-113	SW-22 (15)	Soluble	Solid	DI Leach	
890-1502-114	SW-23 (15)	Soluble	Solid	DI Leach	
890-1502-115	SW-24 (15)	Soluble	Solid	DI Leach	
890-1502-116	SW-25 (15)	Soluble	Solid	DI Leach	
890-1502-117	SW-26 (15)	Soluble	Solid	DI Leach	
890-1502-118	SW-27 (15)	Soluble	Solid	DI Leach	
890-1502-119	SW-28 (15)	Soluble	Solid	DI Leach	
890-1502-120	SW-29 (15)	Soluble	Solid	DI Leach	
MB 880-11236/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11236/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11236/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

HPLC/IC (Continued)

Leach Batch: 11236 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-4 MS	BH-4 (6)	Soluble	Solid	DI Leach	
890-1502-4 MSD	BH-4 (6)	Soluble	Solid	DI Leach	
890-1502-111 MS	SW-20 (15)	Soluble	Solid	DI Leach	
890-1502-111 MSD	SW-20 (15)	Soluble	Solid	DI Leach	

Leach Batch: 11237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-5	BH-5 (6)	Soluble	Solid	DI Leach	
890-1502-6	BH-6 (6)	Soluble	Solid	DI Leach	
890-1502-7	BH-7 (6)	Soluble	Solid	DI Leach	
890-1502-8	BH-8 (6)	Soluble	Solid	DI Leach	
890-1502-9	BH-9 (6)	Soluble	Solid	DI Leach	
890-1502-10	BH-10 (6)	Soluble	Solid	DI Leach	
890-1502-11	BH-11 (6)	Soluble	Solid	DI Leach	
890-1502-12	BH-12 (6)	Soluble	Solid	DI Leach	
890-1502-13	BH-13 (6)	Soluble	Solid	DI Leach	
890-1502-14	BH-14 (6)	Soluble	Solid	DI Leach	
890-1502-15	BH-15 (6)	Soluble	Solid	DI Leach	
890-1502-16	BH-16 (6)	Soluble	Solid	DI Leach	
890-1502-17	BH-17 (6)	Soluble	Solid	DI Leach	
890-1502-18	BH-18 (6)	Soluble	Solid	DI Leach	
890-1502-19	BH-19 (6)	Soluble	Solid	DI Leach	
890-1502-20	BH-20 (6)	Soluble	Solid	DI Leach	
890-1502-21	BH-21 (6)	Soluble	Solid	DI Leach	
890-1502-22	BH-22 (6)	Soluble	Solid	DI Leach	
890-1502-23	BH-23 (6)	Soluble	Solid	DI Leach	
890-1502-24	BH-24 (6)	Soluble	Solid	DI Leach	
MB 880-11237/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11237/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11237/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1502-5 MS	BH-5 (6)	Soluble	Solid	DI Leach	
890-1502-5 MSD	BH-5 (6)	Soluble	Solid	DI Leach	
890-1502-15 MS	BH-15 (6)	Soluble	Solid	DI Leach	
890-1502-15 MSD	BH-15 (6)	Soluble	Solid	DI Leach	

Leach Batch: 11238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-25	BH-25 (15)	Soluble	Solid	DI Leach	
890-1502-26	BH-26 (15)	Soluble	Solid	DI Leach	
890-1502-27	BH-27 (15)	Soluble	Solid	DI Leach	
890-1502-28	BH-28 (15)	Soluble	Solid	DI Leach	
890-1502-29	BH-29 (15)	Soluble	Solid	DI Leach	
890-1502-30	BH-30 (15)	Soluble	Solid	DI Leach	
890-1502-31	BH-31 (15)	Soluble	Solid	DI Leach	
890-1502-32	BH-32 (15)	Soluble	Solid	DI Leach	
890-1502-33	BH-33 (15)	Soluble	Solid	DI Leach	
890-1502-34	BH-34 (15)	Soluble	Solid	DI Leach	
890-1502-35	BH-35 (15)	Soluble	Solid	DI Leach	
890-1502-36	BH-36 (15)	Soluble	Solid	DI Leach	
890-1502-37	BH-37 (15)	Soluble	Solid	DI Leach	
890-1502-38	BH-38 (15)	Soluble	Solid	DI Leach	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

HPLC/IC (Continued)

Leach Batch: 11238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-39	BH-39 (15)	Soluble	Solid	DI Leach	_
890-1502-40	BH-40 (15)	Soluble	Solid	DI Leach	
890-1502-41	BH-41 (15)	Soluble	Solid	DI Leach	
890-1502-42	BH-42 (15)	Soluble	Solid	DI Leach	
890-1502-43	BH-43 (15)	Soluble	Solid	DI Leach	
890-1502-44	BH-44 (15)	Soluble	Solid	DI Leach	
MB 880-11238/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11238/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11238/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1502-25 MS	BH-25 (15)	Soluble	Solid	DI Leach	
890-1502-25 MSD	BH-25 (15)	Soluble	Solid	DI Leach	
890-1502-35 MS	BH-35 (15)	Soluble	Solid	DI Leach	
890-1502-35 MSD	BH-35 (15)	Soluble	Solid	DI Leach	

Leach Batch: 11240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-45	BH-45 (15)	Soluble	Solid	DI Leach	
890-1502-46	BH-46 (15)	Soluble	Solid	DI Leach	
890-1502-47	BH-47 (15)	Soluble	Solid	DI Leach	
890-1502-48	BH-48 (15)	Soluble	Solid	DI Leach	
890-1502-49	BH-49 (15)	Soluble	Solid	DI Leach	
890-1502-50	BH-50 (15)	Soluble	Solid	DI Leach	
890-1502-51	BH-51 (15)	Soluble	Solid	DI Leach	
890-1502-52	BH-52 (15)	Soluble	Solid	DI Leach	
890-1502-53	BH-53 (15)	Soluble	Solid	DI Leach	
890-1502-54	BH-54 (15)	Soluble	Solid	DI Leach	
890-1502-55	BH-55 (15)	Soluble	Solid	DI Leach	
890-1502-56	BH-56 (15)	Soluble	Solid	DI Leach	
890-1502-57	BH-57 (15)	Soluble	Solid	DI Leach	
890-1502-58	BH-58 (15)	Soluble	Solid	DI Leach	
890-1502-59	BH-59 (15)	Soluble	Solid	DI Leach	
890-1502-60	BH-60 (15)	Soluble	Solid	DI Leach	
890-1502-61	BH-61 (15)	Soluble	Solid	DI Leach	
890-1502-62	BH-62 (15)	Soluble	Solid	DI Leach	
890-1502-63	BH-63 (15)	Soluble	Solid	DI Leach	
890-1502-64	BH-64 (15)	Soluble	Solid	DI Leach	
MB 880-11240/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11240/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11240/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1502-45 MS	BH-45 (15)	Soluble	Solid	DI Leach	
890-1502-45 MSD	BH-45 (15)	Soluble	Solid	DI Leach	
890-1502-55 MS	BH-55 (15)	Soluble	Solid	DI Leach	
890-1502-55 MSD	BH-55 (15)	Soluble	Solid	DI Leach	

Leach Batch: 11242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-1502-65	BH-65 (15)	Soluble	Solid	DI Leach
890-1502-66	BH-66 (15)	Soluble	Solid	DI Leach
890-1502-67	BH-67 (15)	Soluble	Solid	DI Leach
890-1502-68	BH-68 (15)	Soluble	Solid	DI Leach
890-1502-69	BH-69 (15)	Soluble	Solid	DI Leach

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Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

HPLC/IC (Continued)

Leach Batch: 11242 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-70	BH-70 (15)	Soluble	Solid	DI Leach	
890-1502-71	BH-71 (15)	Soluble	Solid	DI Leach	
890-1502-72	BH-72 (15)	Soluble	Solid	DI Leach	
890-1502-73	BH-73 (15)	Soluble	Solid	DI Leach	
890-1502-74	BH-74 (15)	Soluble	Solid	DI Leach	
890-1502-75	BH-75 (15)	Soluble	Solid	DI Leach	
890-1502-76	BH-76 (15)	Soluble	Solid	DI Leach	
890-1502-77	BH-77 (15)	Soluble	Solid	DI Leach	
890-1502-78	BH-78 (15)	Soluble	Solid	DI Leach	
890-1502-79	BH-79 (15)	Soluble	Solid	DI Leach	
890-1502-80	BH-80 (15)	Soluble	Solid	DI Leach	
890-1502-81	BH-81 (15)	Soluble	Solid	DI Leach	
890-1502-82	BH-82 (15)	Soluble	Solid	DI Leach	
890-1502-83	BH-83 (15)	Soluble	Solid	DI Leach	
890-1502-84	BH-84 (15)	Soluble	Solid	DI Leach	
MB 880-11242/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11242/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11242/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1502-65 MS	BH-65 (15)	Soluble	Solid	DI Leach	
890-1502-65 MSD	BH-65 (15)	Soluble	Solid	DI Leach	
890-1502-75 MS	BH-75 (15)	Soluble	Solid	DI Leach	
890-1502-75 MSD	BH-75 (15)	Soluble	Solid	DI Leach	

Leach Batch: 11243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1502-85	BH-85 (15)	Soluble	Solid	DI Leach	
890-1502-86	BH-86 (15)	Soluble	Solid	DI Leach	
890-1502-87	BH-87 (15)	Soluble	Solid	DI Leach	
890-1502-88	BH-88 (15)	Soluble	Solid	DI Leach	
890-1502-89	BH-89 (15)	Soluble	Solid	DI Leach	
890-1502-90	BH90 (RS) (6)	Soluble	Solid	DI Leach	
890-1502-91	BH-91 (RS) (6)	Soluble	Solid	DI Leach	
890-1502-121	SW-30 (RS) (6)	Soluble	Solid	DI Leach	
890-1502-122	SW-31 (RS) (4)	Soluble	Solid	DI Leach	
890-1502-123	SW-32 (RS) (6)	Soluble	Solid	DI Leach	
890-1502-124	SW-33 (RS) (8)	Soluble	Solid	DI Leach	
MB 880-11243/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11243/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11243/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1502-85 MS	BH-85 (15)	Soluble	Solid	DI Leach	
890-1502-85 MSD	BH-85 (15)	Soluble	Solid	DI Leach	
890-1502-124 MS	SW-33 (RS) (8)	Soluble	Solid	DI Leach	
890-1502-124 MSD	SW-33 (RS) (8)	Soluble	Solid	DI Leach	

Analysis Batch: 11379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-1	BH-1 (6)	Soluble	Solid	300.0	11227
890-1502-2	BH-2 (6)	Soluble	Solid	300.0	11227
890-1502-3	BH-3 (6)	Soluble	Solid	300.0	11227
MB 880-11227/1-A	Method Blank	Soluble	Solid	300.0	11227
LCS 880-11227/2-A	Lab Control Sample	Soluble	Solid	300.0	11227

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

HPLC/IC (Continued)

Analysis Batch: 11379 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-11227/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11227
890-1499-A-1-H MS	Matrix Spike	Soluble	Solid	300.0	11227
890-1499-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11227

Analysis Batch: 11381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-92	SW-1 (0-6)	Soluble	Solid	300.0	11233
890-1502-93	SW-2 (0-6)	Soluble	Solid	300.0	11233
890-1502-94	SW-3 (0-6)	Soluble	Solid	300.0	11233
890-1502-95	SW-4 (0-6)	Soluble	Solid	300.0	11233
890-1502-96	SW-5 (0-6)	Soluble	Solid	300.0	11233
890-1502-97	SW-6 (0-6)	Soluble	Solid	300.0	11233
890-1502-98	SW-7 (0-6)	Soluble	Solid	300.0	11233
890-1502-99	SW-8 (0-6)	Soluble	Solid	300.0	11233
890-1502-100	SW-9 (0-6)	Soluble	Solid	300.0	11233
890-1502-101	SW-10 (0-6)	Soluble	Solid	300.0	11233
MB 880-11233/1-A	Method Blank	Soluble	Solid	300.0	11233
LCS 880-11233/2-A	Lab Control Sample	Soluble	Solid	300.0	11233
LCSD 880-11233/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11233
890-1502-92 MS	SW-1 (0-6)	Soluble	Solid	300.0	11233
890-1502-92 MSD	SW-1 (0-6)	Soluble	Solid	300.0	11233

Analysis Batch: 11452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-4	BH-4 (6)	Soluble	Solid	300.0	11230
890-1502-102	SW-11 (0-6)	Soluble	Solid	300.0	11230
890-1502-103	SW-12 (10)	Soluble	Solid	300.0	11230
890-1502-104	SW-13 (15)	Soluble	Solid	300.0	11230
890-1502-105	SW-14 (15)	Soluble	Solid	300.0	11236
890-1502-106	SW-15 (15)	Soluble	Solid	300.0	11230
890-1502-107	SW-16 (15)	Soluble	Solid	300.0	11230
890-1502-108	SW-17 (15)	Soluble	Solid	300.0	11236
890-1502-109	SW-18 (15)	Soluble	Solid	300.0	11236
890-1502-110	SW-19 (15)	Soluble	Solid	300.0	11236
890-1502-111	SW-20 (15)	Soluble	Solid	300.0	11236
890-1502-112	SW-21 (15)	Soluble	Solid	300.0	11236
890-1502-113	SW-22 (15)	Soluble	Solid	300.0	11230
890-1502-114	SW-23 (15)	Soluble	Solid	300.0	11236
890-1502-115	SW-24 (15)	Soluble	Solid	300.0	11236
890-1502-116	SW-25 (15)	Soluble	Solid	300.0	11236
890-1502-117	SW-26 (15)	Soluble	Solid	300.0	11236
890-1502-118	SW-27 (15)	Soluble	Solid	300.0	11230
890-1502-119	SW-28 (15)	Soluble	Solid	300.0	11236
890-1502-120	SW-29 (15)	Soluble	Solid	300.0	11230
MB 880-11236/1-A	Method Blank	Soluble	Solid	300.0	11230
LCS 880-11236/2-A	Lab Control Sample	Soluble	Solid	300.0	11236
LCSD 880-11236/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11236
890-1502-4 MS	BH-4 (6)	Soluble	Solid	300.0	11236
890-1502-4 MSD	BH-4 (6)	Soluble	Solid	300.0	11236
890-1502-111 MS	SW-20 (15)	Soluble	Solid	300.0	11236
890-1502-111 MSD	SW-20 (15)	Soluble	Solid	300.0	11236

Eurofins Xenco, Carlsbad

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

HPLC/IC

Analysis Batch: 11453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-5	BH-5 (6)	Soluble	Solid	300.0	11237
890-1502-6	BH-6 (6)	Soluble	Solid	300.0	11237
890-1502-7	BH-7 (6)	Soluble	Solid	300.0	11237
890-1502-8	BH-8 (6)	Soluble	Solid	300.0	11237
890-1502-9	BH-9 (6)	Soluble	Solid	300.0	11237
890-1502-10	BH-10 (6)	Soluble	Solid	300.0	11237
890-1502-11	BH-11 (6)	Soluble	Solid	300.0	11237
890-1502-12	BH-12 (6)	Soluble	Solid	300.0	11237
890-1502-13	BH-13 (6)	Soluble	Solid	300.0	11237
890-1502-14	BH-14 (6)	Soluble	Solid	300.0	11237
890-1502-15	BH-15 (6)	Soluble	Solid	300.0	11237
890-1502-16	BH-16 (6)	Soluble	Solid	300.0	11237
890-1502-17	BH-17 (6)	Soluble	Solid	300.0	11237
890-1502-18	BH-18 (6)	Soluble	Solid	300.0	11237
890-1502-19	BH-19 (6)	Soluble	Solid	300.0	11237
890-1502-20	BH-20 (6)	Soluble	Solid	300.0	11237
890-1502-21	BH-21 (6)	Soluble	Solid	300.0	11237
890-1502-22	BH-22 (6)	Soluble	Solid	300.0	11237
890-1502-23	BH-23 (6)	Soluble	Solid	300.0	11237
890-1502-24	BH-24 (6)	Soluble	Solid	300.0	11237
MB 880-11237/1-A	Method Blank	Soluble	Solid	300.0	11237
LCS 880-11237/2-A	Lab Control Sample	Soluble	Solid	300.0	11237
LCSD 880-11237/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11237
890-1502-5 MS	BH-5 (6)	Soluble	Solid	300.0	11237
890-1502-5 MSD	BH-5 (6)	Soluble	Solid	300.0	11237
890-1502-15 MS	BH-15 (6)	Soluble	Solid	300.0	11237
890-1502-15 MSD	BH-15 (6)	Soluble	Solid	300.0	11237

Analysis Batch: 11454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-25	BH-25 (15)	Soluble	Solid	300.0	11238
890-1502-26	BH-26 (15)	Soluble	Solid	300.0	11238
890-1502-27	BH-27 (15)	Soluble	Solid	300.0	11238
890-1502-28	BH-28 (15)	Soluble	Solid	300.0	11238
390-1502-29	BH-29 (15)	Soluble	Solid	300.0	11238
890-1502-30	BH-30 (15)	Soluble	Solid	300.0	11238
890-1502-31	BH-31 (15)	Soluble	Solid	300.0	11238
890-1502-32	BH-32 (15)	Soluble	Solid	300.0	11238
890-1502-33	BH-33 (15)	Soluble	Solid	300.0	11238
390-1502-34	BH-34 (15)	Soluble	Solid	300.0	11238
890-1502-35	BH-35 (15)	Soluble	Solid	300.0	11238
390-1502-36	BH-36 (15)	Soluble	Solid	300.0	11238
390-1502-37	BH-37 (15)	Soluble	Solid	300.0	11238
890-1502-38	BH-38 (15)	Soluble	Solid	300.0	11238
390-1502-39	BH-39 (15)	Soluble	Solid	300.0	11238
390-1502-40	BH-40 (15)	Soluble	Solid	300.0	11238
390-1502-41	BH-41 (15)	Soluble	Solid	300.0	11238
890-1502-42	BH-42 (15)	Soluble	Solid	300.0	11238
390-1502-43	BH-43 (15)	Soluble	Solid	300.0	11238
390-1502-44	BH-44 (15)	Soluble	Solid	300.0	11238
MB 880-11238/1-A	Method Blank	Soluble	Solid	300.0	11238

Eurofins Xenco, Carlsbad

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Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

HPLC/IC (Continued)

Analysis Batch: 11454 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-11238/2-A	Lab Control Sample	Soluble	Solid	300.0	11238
LCSD 880-11238/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11238
890-1502-25 MS	BH-25 (15)	Soluble	Solid	300.0	11238
890-1502-25 MSD	BH-25 (15)	Soluble	Solid	300.0	11238
890-1502-35 MS	BH-35 (15)	Soluble	Solid	300.0	11238
890-1502-35 MSD	BH-35 (15)	Soluble	Solid	300.0	11238

Analysis Batch: 11455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-45	BH-45 (15)	Soluble	Solid	300.0	11240
890-1502-46	BH-46 (15)	Soluble	Solid	300.0	11240
890-1502-47	BH-47 (15)	Soluble	Solid	300.0	11240
890-1502-48	BH-48 (15)	Soluble	Solid	300.0	11240
890-1502-49	BH-49 (15)	Soluble	Solid	300.0	11240
890-1502-50	BH-50 (15)	Soluble	Solid	300.0	11240
890-1502-51	BH-51 (15)	Soluble	Solid	300.0	11240
890-1502-52	BH-52 (15)	Soluble	Solid	300.0	11240
890-1502-53	BH-53 (15)	Soluble	Solid	300.0	11240
890-1502-54	BH-54 (15)	Soluble	Solid	300.0	11240
890-1502-55	BH-55 (15)	Soluble	Solid	300.0	11240
890-1502-56	BH-56 (15)	Soluble	Solid	300.0	11240
890-1502-57	BH-57 (15)	Soluble	Solid	300.0	11240
890-1502-58	BH-58 (15)	Soluble	Solid	300.0	11240
890-1502-59	BH-59 (15)	Soluble	Solid	300.0	11240
890-1502-60	BH-60 (15)	Soluble	Solid	300.0	11240
890-1502-61	BH-61 (15)	Soluble	Solid	300.0	11240
890-1502-62	BH-62 (15)	Soluble	Solid	300.0	11240
890-1502-63	BH-63 (15)	Soluble	Solid	300.0	11240
890-1502-64	BH-64 (15)	Soluble	Solid	300.0	11240
MB 880-11240/1-A	Method Blank	Soluble	Solid	300.0	11240
LCS 880-11240/2-A	Lab Control Sample	Soluble	Solid	300.0	11240
LCSD 880-11240/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11240
890-1502-45 MS	BH-45 (15)	Soluble	Solid	300.0	11240
890-1502-45 MSD	BH-45 (15)	Soluble	Solid	300.0	11240
890-1502-55 MS	BH-55 (15)	Soluble	Solid	300.0	11240
890-1502-55 MSD	BH-55 (15)	Soluble	Solid	300.0	11240

Analysis Batch: 11456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-65	BH-65 (15)	Soluble	Solid	300.0	11242
890-1502-66	BH-66 (15)	Soluble	Solid	300.0	11242
890-1502-67	BH-67 (15)	Soluble	Solid	300.0	11242
890-1502-68	BH-68 (15)	Soluble	Solid	300.0	11242
890-1502-69	BH-69 (15)	Soluble	Solid	300.0	11242
890-1502-70	BH-70 (15)	Soluble	Solid	300.0	11242
890-1502-71	BH-71 (15)	Soluble	Solid	300.0	11242
890-1502-72	BH-72 (15)	Soluble	Solid	300.0	11242
890-1502-73	BH-73 (15)	Soluble	Solid	300.0	11242
890-1502-74	BH-74 (15)	Soluble	Solid	300.0	11242
890-1502-75	BH-75 (15)	Soluble	Solid	300.0	11242
890-1502-76	BH-76 (15)	Soluble	Solid	300.0	11242

Eurofins Xenco, Carlsbad

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

HPLC/IC (Continued)

Analysis Batch: 11456 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-77	BH-77 (15)	Soluble	Solid	300.0	11242
890-1502-78	BH-78 (15)	Soluble	Solid	300.0	11242
890-1502-79	BH-79 (15)	Soluble	Solid	300.0	11242
890-1502-80	BH-80 (15)	Soluble	Solid	300.0	11242
890-1502-81	BH-81 (15)	Soluble	Solid	300.0	11242
890-1502-82	BH-82 (15)	Soluble	Solid	300.0	11242
890-1502-83	BH-83 (15)	Soluble	Solid	300.0	11242
890-1502-84	BH-84 (15)	Soluble	Solid	300.0	11242
MB 880-11242/1-A	Method Blank	Soluble	Solid	300.0	11242
LCS 880-11242/2-A	Lab Control Sample	Soluble	Solid	300.0	11242
LCSD 880-11242/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11242
890-1502-65 MS	BH-65 (15)	Soluble	Solid	300.0	11242
890-1502-65 MSD	BH-65 (15)	Soluble	Solid	300.0	11242
890-1502-75 MS	BH-75 (15)	Soluble	Solid	300.0	11242
890-1502-75 MSD	BH-75 (15)	Soluble	Solid	300.0	11242

Analysis Batch: 11705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-85	BH-85 (15)	Soluble	Solid	300.0	11243
890-1502-86	BH-86 (15)	Soluble	Solid	300.0	11243
890-1502-87	BH-87 (15)	Soluble	Solid	300.0	11243
890-1502-88	BH-88 (15)	Soluble	Solid	300.0	11243
890-1502-89	BH-89 (15)	Soluble	Solid	300.0	11243
890-1502-90	BH90 (RS) (6)	Soluble	Solid	300.0	11243
890-1502-91	BH-91 (RS) (6)	Soluble	Solid	300.0	11243
890-1502-121	SW-30 (RS) (6)	Soluble	Solid	300.0	11243
890-1502-122	SW-31 (RS) (4)	Soluble	Solid	300.0	11243
890-1502-123	SW-32 (RS) (6)	Soluble	Solid	300.0	11243
890-1502-124	SW-33 (RS) (8)	Soluble	Solid	300.0	11243
MB 880-11243/1-A	Method Blank	Soluble	Solid	300.0	11243
LCS 880-11243/2-A	Lab Control Sample	Soluble	Solid	300.0	11243
LCSD 880-11243/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11243
890-1502-85 MS	BH-85 (15)	Soluble	Solid	300.0	11243
890-1502-85 MSD	BH-85 (15)	Soluble	Solid	300.0	11243
890-1502-124 MS	SW-33 (RS) (8)	Soluble	Solid	300.0	11243
890-1502-124 MSD	SW-33 (RS) (8)	Soluble	Solid	300.0	11243

Eurofins Xenco, Carlsbad

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-1

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Client Sample ID: BH-1 (6)

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 00:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 11:42	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11227	11/02/21 11:52	CH	XEN MID
Soluble	Analysis	300.0		5			11379	11/06/21 06:01	CH	XEN MID

Client Sample ID: BH-2 (6) Lab Sample ID: 890-1502-2

Date Collected: 10/27/21 00:00 Matrix: Solid Date Received: 10/29/21 12:45

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.01 g 5 mL 11075 11/01/21 11:05 KL XEN MID Total/NA 8021B 5 mL 11/03/21 01:08 XEN MID Analysis 1 5 mL 11206 MR Total/NA Total BTEX 11768 XEN MID Analysis 1 11/08/21 17:11 A.I Total/NA Analysis 8015 NM 11598 11/05/21 13:50 XEN MID Total/NA XEN MID Prep 8015NM Prep 10.02 g 11223 11/02/21 11:44 DM 10 mL Total/NA Analysis 8015B NM 11317 11/03/21 12:43 AJ XEN MID Soluble 11227 XEN MID Leach DI Leach 4.96 g 50 mL 11/02/21 11:52 CH Soluble Analysis 300.0 11379 11/06/21 06:09 CH XEN MID

Client Sample ID: BH-3 (6) Lab Sample ID: 890-1502-3

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 01:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 13:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11227	11/02/21 11:52	CH	XEN MID
Soluble	Analysis	300.0		1			11379	11/06/21 06:17	CH	XEN MID

Client Sample ID: BH-4 (6) Lab Sample ID: 890-1502-4

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 01:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID

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Matrix: Solid

Matrix: Solid

11/10/2021

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-4 (6)

Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-4 Date Collected: 10/27/21 00:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM Analysis 11598 11/05/21 13:50 AJ XEN MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 11223 11/02/21 11:44 DM XEN MID Total/NA Analysis 8015B NM 11317 11/03/21 13:23 ΑJ XEN MID 1 11236 11/02/21 12:22 CH XEN MID Soluble Leach DI Leach 4.95 g 50 mL 300.0 11/08/21 09:05 Soluble Analysis 1 11452 CH XEN MID

Client Sample ID: BH-5 (6) Lab Sample ID: 890-1502-5

Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 02:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 13:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 05:30	CH	XEN MID

Client Sample ID: BH-6 (6) Lab Sample ID: 890-1502-6

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 02:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 14:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 05:52	CH	XEN MID

Client Sample ID: BH-7 (6) Lab Sample ID: 890-1502-7

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 02:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 14:23	AJ	XEN MID

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11/10/2021

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-7 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	11237	11/02/21 12:31	СН	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 05:59	CH	XEN MID

Client Sample ID: BH-8 (6) Lab Sample ID: 890-1502-8

Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 03:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 14:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 06:07	CH	XEN MID

Lab Sample ID: 890-1502-9 Client Sample ID: BH-9 (6)

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 03:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 15:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 06:14	CH	XEN MID

Client Sample ID: BH-10 (6) Lab Sample ID: 890-1502-10

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 03:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 15:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 06:36	CH	XEN MID

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Client Sample ID: BH-11 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-11

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 05:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 16:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 06:44	CH	XEN MID

Client Sample ID: BH-12 (6) Lab Sample ID: 890-1502-12

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 05:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 16:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 06:51	CH	XEN MID

Client Sample ID: BH-13 (6) Lab Sample ID: 890-1502-13 Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 05:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 16:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 14:10	CH	XEN MID

Client Sample ID: BH-14 (6) Lab Sample ID: 890-1502-14 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Г										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 06:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Released to Imaging: 9/1/2023 3:11:42 PM

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-14 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-14

Matrix: Solid

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM Analysis 11598 11/05/21 13:50 AJ XEN MID Total/NA Prep 8015NM Prep 10.03 g 10 mL 11223 11/02/21 11:44 DM XEN MID Total/NA Analysis 8015B NM 11317 11/03/21 17:02 ΑJ XEN MID 1 5.03 g 11/02/21 12:31 CH XEN MID Soluble Leach DI Leach 50 mL 11237 300.0 11/07/21 07:06 Soluble Analysis 5 11453 СН XEN MID

Client Sample ID: BH-15 (6) Lab Sample ID: 890-1502-15 Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 06:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 17:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 07:13	CH	XEN MID

Client Sample ID: BH-16 (6) Lab Sample ID: 890-1502-16 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 06:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 17:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 07:35	CH	XEN MID

Client Sample ID: BH-17 (6) Lab Sample ID: 890-1502-17

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 07:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	11223 11317	11/02/21 11:44 11/03/21 18:03	DM AJ	XEN MID XEN MID

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Client Sample ID: BH-17 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	11237	11/02/21 12:31	СН	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 07:43	CH	XEN MID

Client Sample ID: BH-18 (6) Lab Sample ID: 890-1502-18

Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 07:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 18:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 08:05	CH	XEN MID

Client Sample ID: BH-19 (6) Lab Sample ID: 890-1502-19

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 07:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 18:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 08:13	CH	XEN MID

Client Sample ID: BH-20 (6) Lab Sample ID: 890-1502-20

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Released to Imaging: 9/1/2023 3:11:42 PM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 08:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 08:20	CH	XEN MID

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Client Sample ID: BH-21 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-21

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 18:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 11:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 08:27	CH	XEN MID

Client Sample ID: BH-22 (6) Lab Sample ID: 890-1502-22

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 18:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 12:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 08:35	CH	XEN MID

Client Sample ID: BH-23 (6) Lab Sample ID: 890-1502-23 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035		·	4.99 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 18:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 12:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 08:42	CH	XEN MID

Client Sample ID: BH-24 (6) Lab Sample ID: 890-1502-24 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 19:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Client Sample ID: BH-24 (6)

Lab Sample ID: 890-1502-24

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM Analysis 11598 11/05/21 13:50 AJ XEN MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 11255 11/02/21 14:45 DM XEN MID Total/NA Analysis 8015B NM 11321 11/03/21 13:14 ΑJ XEN MID 1 5.03 g 11237 11/02/21 12:31 CH XEN MID Soluble Leach DI Leach 50 mL 300.0 11/07/21 08:49 Soluble Analysis 1 11453 CH XEN MID

Lab Sample ID: 890-1502-25

Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Client Sample ID: BH-25 (15)

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 19:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 13:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 09:49	CH	XEN MID

Client Sample ID: BH-26 (15) Lab Sample ID: 890-1502-26

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 19:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 13:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		5			11454	11/07/21 10:11	CH	XEN MID

Client Sample ID: BH-27 (15) Lab Sample ID: 890-1502-27

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 20:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g	10 mL	11255 11321	11/02/21 14:45 11/03/21 14:18	DM AJ	XEN MID XEN MID

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Matrix: Solid

Client Sample ID: BH-27 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-27

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	11238	11/02/21 12:34	СН	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 10:18	CH	XEN MID

Client Sample ID: BH-28 (15) Lab Sample ID: 890-1502-28

Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 20:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 14:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 10:26	CH	XEN MID

Client Sample ID: BH-29 (15) Lab Sample ID: 890-1502-29

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 **Matrix: Solid**

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 20:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 10:33	CH	XEN MID

Client Sample ID: BH-30 (15) Lab Sample ID: 890-1502-30

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 21:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 15:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 10:56	CH	XEN MID

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-31

Matrix: Solid

Client Sample ID: BH-31 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 23:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 16:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 11:03	CH	XEN MID

Client Sample ID: BH-32 (15) Lab Sample ID: 890-1502-32

Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 23:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 16:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 11:10	CH	XEN MID

Client Sample ID: BH-33 (15) Lab Sample ID: 890-1502-33 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 23:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 16:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 11:18	CH	XEN MID

Client Sample ID: BH-34 (15) Lab Sample ID: 890-1502-34

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 00:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Matrix: Solid

Released to Imaging: 9/1/2023 3:11:42 PM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-34

Client Sample ID: BH-34 (15) Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 17:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11238	11/02/21 12:34	СН	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 11:25	CH	XEN MID

Lab Sample ID: 890-1502-35

Client Sample ID: BH-35 (15) Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 00:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 17:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 11:33	CH	XEN MID

Client Sample ID: BH-36 (15) Lab Sample ID: 890-1502-36

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 00:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 17:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 11:55	CH	XEN MID

Client Sample ID: BH-37 (15) Lab Sample ID: 890-1502-37

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 01:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 18:11	AJ	XEN MID

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Client Sample ID: BH-37 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-37

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		5			11454	11/07/21 12:02	CH	XEN MID

Client Sample ID: BH-38 (15) Lab Sample ID: 890-1502-38

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 01:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 18:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		5			11454	11/07/21 12:25	CH	XEN MID

Client Sample ID: BH-39 (15) Lab Sample ID: 890-1502-39

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 01:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 18:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		5			11454	11/07/21 12:32	CH	XEN MID

Client Sample ID: BH-40 (15) Lab Sample ID: 890-1502-40

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Released to Imaging: 9/1/2023 3:11:42 PM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 02:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 19:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 12:39	CH	XEN MID

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Job ID: 890-1502-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-41 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-41

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 02:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 11:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 12:47	CH	XEN MID

Client Sample ID: BH-42 (15) Lab Sample ID: 890-1502-42 Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 02:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 12:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 12:54	CH	XEN MID

Client Sample ID: BH-43 (15) Lab Sample ID: 890-1502-43 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 03:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 12:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		5			11454	11/07/21 13:02	CH	XEN MID

Client Sample ID: BH-44 (15) Lab Sample ID: 890-1502-44 Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 03:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Client Sample ID: BH-44 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-44

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 13:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11238	11/02/21 12:34	СН	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 13:09	CH	XEN MID

Lab Sample ID: 890-1502-45 Client Sample ID: BH-45 (15) Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 04:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 13:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 04:30	CH	XEN MID

Client Sample ID: BH-46 (15) Lab Sample ID: 890-1502-46 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 04:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 13:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 04:53	CH	XEN MID

Lab Sample ID: 890-1502-47 Client Sample ID: BH-47 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 05:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g	10 mL	11273 11323	11/02/21 16:07 11/03/21 14:18	DM AJ	XEN MID XEN MID

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Matrix: Solid

11/10/2021

Client Sample ID: BH-47 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-47

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	11240	11/02/21 12:39	СН	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 05:00	CH	XEN MID

Client Sample ID: BH-48 (15)

Lab Sample ID: 890-1502-48

Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 05:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 14:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 05:08	CH	XEN MID

Client Sample ID: BH-49 (15)

Lab Sample ID: 890-1502-49

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 05:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 05:16	CH	XEN MID

Client Sample ID: BH-50 (15)

Lab Sample ID: 890-1502-50

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 06:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 15:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 05:39	CH	XEN MID

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Matrix: Solid

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-51 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-51

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 08:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 16:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 05:46	CH	XEN MID

Client Sample ID: BH-52 (15) Lab Sample ID: 890-1502-52 Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.01 g 5 mL 11111 11/01/21 12:11 KL XEN MID Total/NA 8021B 5 mL 11/04/21 08:36 XEN MID Analysis 1 5 mL 11259 MR Total/NA Total BTEX 11768 XEN MID Analysis 11/09/21 10:40 A.I 1 Total/NA Analysis 8015 NM 11598 11/05/21 13:50 XEN MID Total/NA XEN MID Prep 8015NM Prep 10.03 g 11273 11/02/21 16:07 DM 10 mL Total/NA Analysis 8015B NM 11323 11/03/21 16:24 AJ XEN MID Soluble XEN MID Leach DI Leach 5.02 g 50 mL 11240 11/02/21 12:39 CH Soluble Analysis 300.0 5 11455 11/08/21 05:54 CH XEN MID

Client Sample ID: BH-53 (15) Lab Sample ID: 890-1502-53 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11388	11/03/21 08:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11420	11/04/21 11:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 16:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 06:02	CH	XEN MID

Lab Sample ID: 890-1502-54 Client Sample ID: BH-54 (15) Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Released to Imaging: 9/1/2023 3:11:42 PM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 09:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-54 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-54

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 17:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11240	11/02/21 12:39	СН	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 06:09	CH	XEN MID

Client Sample ID: BH-55 (15) Lab Sample ID: 890-1502-55

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 Total/NA Prep 5.03 g 5 mL 11111 11/01/21 12:11 KL XEN MID Total/NA Analysis 8021B 5 mL 5 mL 11259 11/04/21 09:54 MR XEN MID 1 Total/NA Total BTEX Analysis 1 11768 11/09/21 10:40 AJ XEN MID Total/NA Analysis 8015 NM 11598 11/05/21 13:50 XEN MID AJ1 XEN MID Total/NA Prep 8015NM Prep 10.00 g 10 mL 11273 11/02/21 16:07 DM Total/NA Analysis 8015B NM 11323 11/03/21 17:28 XEN MID AJ1 Soluble Leach DI Leach 5.02 g 50 mL 11240 11/02/21 12:39 CH XEN MID XEN MID Soluble Analysis 300.0 5 11455 11/08/21 06:17 CH

Client Sample ID: BH-56 (15) Lab Sample ID: 890-1502-56 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 10:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 17:49	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 06:40	CH	XEN MID

Client Sample ID: BH-57 (15) Lab Sample ID: 890-1502-57

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11445	11/04/21 11:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11449	11/05/21 00:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	11273 11323	11/02/21 16:07 11/03/21 18:11	DM AJ	XEN MID XEN MID

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-57 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-57

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	11240	11/02/21 12:39	СН	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 06:48	CH	XEN MID

Client Sample ID: BH-58 (15) Lab Sample ID: 890-1502-58

Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11445	11/04/21 11:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11449	11/05/21 00:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 18:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 07:11	CH	XEN MID

Client Sample ID: BH-59 (15) Lab Sample ID: 890-1502-59

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11445	11/04/21 11:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11449	11/05/21 01:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 18:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 07:18	CH	XEN MID

Client Sample ID: BH-60 (15) Lab Sample ID: 890-1502-60

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11445	11/04/21 11:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11449	11/05/21 01:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 19:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 07:26	CH	XEN MID

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Client Sample ID: BH-61 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-61

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 05:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 21:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		10			11455	11/08/21 07:33	CH	XEN MID

Client Sample ID: BH-62 (15) Lab Sample ID: 890-1502-62

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 06:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 22:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 07:41	CH	XEN MID

Client Sample ID: BH-63 (15) Lab Sample ID: 890-1502-63 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 06:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 22:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 07:49	CH	XEN MID

Client Sample ID: BH-64 (15) Lab Sample ID: 890-1502-64 Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 06:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Matrix: Solid

Released to Imaging: 9/1/2023 3:11:42 PM

Client Sample ID: BH-64 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-64

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 23:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 07:56	CH	XEN MID

Lab Sample ID: 890-1502-65 Client Sample ID: BH-65 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 07:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 23:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 08:58	CH	XEN MID

Client Sample ID: BH-66 (15) Lab Sample ID: 890-1502-66 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 07:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 23:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 09:21	CH	XEN MID

Lab Sample ID: 890-1502-67 Client Sample ID: BH-67 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 07:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g	10 mL	11356 11323	11/03/21 10:38 11/04/21 00:02	DM AJ	XEN MID XEN MID

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

11456

11/08/21 09:36

CH

Lab Sample ID: 890-1502-67

Client Sample ID: BH-67 (15)

Client Sample ID: BH-68 (15)

300.0

Analysis

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Date Received: 10/29/21 12:45

Soluble

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 5.02 g 50 mL 11242 11/02/21 12:43 СН XEN MID Leach Soluble Analysis 300.0 1 11456 11/08/21 09:29 СН XEN MID

Lab Sample ID: 890-1502-68

Matrix: Solid

XEN MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 08:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 00:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11242	11/02/21 12:43	СН	XEN MID

Lab Sample ID: 890-1502-69 Client Sample ID: BH-69 (15)

5

Date Collected: 10/28/21 00:00 **Matrix: Solid**

Dil Batch Batch Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.98 g 5 mL 11112 11/01/21 12:13 KL XEN MID 11/03/21 08:30 Total/NA 8021B 5 mL Analysis 1 5 mL 11221 MR XEN MID Total/NA Analysis Total BTEX 11768 11/09/21 10:40 AJ XEN MID 1 Total/NA Analysis 8015 NM 1 11598 11/05/21 13:50 AJ XEN MID Total/NA Prep 8015NM Prep 10.02 g 11356 11/03/21 10:38 DM **XEN MID** 10 mL XEN MID Total/NA Analysis 8015B NM 1 11323 11/04/21 00:44 ΑJ Soluble Leach DI Leach 5.01 g 50 mL 11242 11/02/21 12:43 CH XEN MID Soluble Analysis 300.0 1 11456 11/08/21 09:44 CH XEN MID

Client Sample ID: BH-70 (15) Lab Sample ID: 890-1502-70

Date Collected: 10/28/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 08:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 01:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 10:07	CH	XEN MID

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Released to Imaging: 9/1/2023 3:11:42 PM

Client Sample ID: BH-71 (15)

Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-71 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 10:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 01:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 10:15	CH	XEN MID

Client Sample ID: BH-72 (15) Lab Sample ID: 890-1502-72

Date Collected: 10/28/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 11:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 02:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 10:22	CH	XEN MID

Client Sample ID: BH-73 (15) Lab Sample ID: 890-1502-73

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 11:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 02:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		5			11456	11/08/21 10:30	CH	XEN MID

Client Sample ID: BH-74 (15) Lab Sample ID: 890-1502-74

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 11:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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11/10/2021

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-74 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-74

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 02:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		5			11456	11/08/21 10:37	CH	XEN MID

Lab Sample ID: 890-1502-75 Client Sample ID: BH-75 (15) Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 12:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 03:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 10:45	CH	XEN MID

Client Sample ID: BH-76 (15) Lab Sample ID: 890-1502-76 Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 12:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 03:36	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 11:08	CH	XEN MID

Lab Sample ID: 890-1502-77 Client Sample ID: BH-77 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 12:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 03:57	AJ	XEN MID

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Matrix: Solid

11/10/2021

Client Sample ID: BH-77 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-77

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		5			11456	11/08/21 12:34	CH	XEN MID

Client Sample ID: BH-78 (15) Lab Sample ID: 890-1502-78

Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 13:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 04:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 11:39	CH	XEN MID

Lab Sample ID: 890-1502-79 Client Sample ID: BH-79 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 13:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 04:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11242	11/02/21 12:43	СН	XEN MID

Client Sample ID: BH-80 (15) Lab Sample ID: 890-1502-80

11456

11/08/21 11:46 CH

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 13:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 05:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 11:54	CH	XEN MID

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Matrix: Solid

XEN MID

Client Sample ID: BH-81 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-81

Matrix: Solid

Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Prep	5035			5.02 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 17:55	MR	XEN MID
Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Analysis	8015B NM		1			11416	11/04/21 11:05	AJ	XEN MID
Leach	DI Leach			4.96 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Analysis	300.0		1			11456	11/08/21 12:02	CH	XEN MID
	Type Prep Analysis Analysis Analysis Prep Analysis Leach	Type Method Prep 5035 Analysis 8021B Analysis Total BTEX Analysis 8015 NM Prep 8015NM Prep Analysis 8015B NM Leach DI Leach	Type Method Run Prep 5035 Analysis 8021B Analysis Total BTEX Analysis 8015 NM Prep 8015NM Prep Analysis 8015B NM Leach DI Leach	Type Method Run Factor Prep 5035 1 Analysis 8021B 1 Analysis Total BTEX 1 Analysis 8015 NM 1 Prep 8015NM Prep Analysis 8015B NM 1 Leach DI Leach	Type Method Run Factor Amount Prep 5035 5.02 g Analysis 8021B 1 5 mL Analysis Total BTEX 1 1 Analysis 8015 NM 1 1 Prep 8015NM Prep 10.03 g 1 Analysis 8015B NM 1 4.96 g	Type Method Run Factor Amount Amount Prep 5035 5.02 g 5 mL Analysis 8021B 1 5 mL 5 mL Analysis Total BTEX 1	Type Method Run Factor Amount Amount Number Prep 5035 5.02 g 5 mL 11113 Analysis 8021B 1 5 mL 5 mL 11374 Analysis Total BTEX 1 1768 11768 Analysis 8015 NM 1 10.03 g 10 mL 11364 Analysis 8015B NM 1 10.03 g 10 mL 11416 Leach DI Leach 4.96 g 50 mL 11242	Type Method Run Factor Amount Amount Number or Analyzed Prep 5035 5.02 g 5 mL 11113 11/01/21 12:16 Analysis 8021B 1 5 mL 5 mL 11374 11/03/21 17:55 Analysis Total BTEX 1 1 11768 11/09/21 10:40 Analysis 8015 NM 1 1 11598 11/05/21 13:50 Prep 8015NM Prep 10.03 g 10 mL 11364 11/03/21 11:37 Analysis 8015B NM 1 4.96 g 50 mL 11242 11/02/21 12:43	Type Method Run Factor Amount Amount Number or Analyzed Analyst Prep 5035 5.02 g 5 mL 11113 11/01/21 12:16 KL Analysis 8021B 1 5 mL 5 mL 11374 11/03/21 17:55 MR Analysis Total BTEX 1 1 11768 11/09/21 10:40 AJ Analysis 8015 NM 1 1 11598 11/05/21 13:50 AJ Prep 8015NM Prep 10.03 g 10 mL 11364 11/03/21 11:37 DM Analysis 8015B NM 1 4.96 g 50 mL 11242 11/04/21 11:05 AJ Leach DI Leach 4.96 g 50 mL 11242 11/02/21 12:43 CH

Client Sample ID: BH-82 (15) Lab Sample ID: 890-1502-82

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 18:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 12:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 12:09	CH	XEN MID

Client Sample ID: BH-83 (15) Lab Sample ID: 890-1502-83 Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035		·	5.00 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 18:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 12:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 12:17	CH	XEN MID

Client Sample ID: BH-84 (15) Lab Sample ID: 890-1502-84 Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 18:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-84

Client Sample ID: BH-84 (15) Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 12:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 12:25	CH	XEN MID

Lab Sample ID: 890-1502-85

Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Client Sample ID: BH-85 (15)

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 19:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 13:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 12:52	CH	XEN MID

Client Sample ID: BH-86 (15) Lab Sample ID: 890-1502-86 Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 19:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 13:38	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 13:15	CH	XEN MID

Lab Sample ID: 890-1502-87 Client Sample ID: BH-87 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 19:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g	10 mL	11364 11416	11/03/21 11:37 11/04/21 13:59	DM AJ	XEN MID XEN MID

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-87 (15)

Lab Sample ID: 890-1502-87

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	11243	11/02/21 12:46	СН	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 13:22	CH	XEN MID

Lab Sample ID: 890-1502-88

Client Sample ID: BH-88 (15) Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 20:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 14:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		5			11705	11/09/21 13:30	CH	XEN MID

Client Sample ID: BH-89 (15) Lab Sample ID: 890-1502-89

Date Collected: 10/28/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 20:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 14:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		5			11705	11/09/21 13:38	CH	XEN MID

Client Sample ID: BH90 (RS) (6)

Lab Sample ID: 890-1502-90 Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 20:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 15:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 14:01	CH	XEN MID

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Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-91

Matrix: Solid

Client Sample ID: BH-91 (RS) (6)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Client: Tetra Tech, Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 22:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 15:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 14:08	CH	XEN MID

Client Sample ID: SW-1 (0-6) Lab Sample ID: 890-1502-92

Date Collected: 10/25/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 23:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 16:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		5			11381	11/07/21 02:54	CH	XEN MID

Client Sample ID: SW-2 (0-6) Lab Sample ID: 890-1502-93

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 23:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 16:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			11381	11/07/21 03:16	CH	XEN MID

Client Sample ID: SW-3 (0-6) Lab Sample ID: 890-1502-94

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 23:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Released to Imaging: 9/1/2023 3:11:42 PM

Matrix: Solid

Client Sample ID: SW-3 (0-6)

Lab Sample ID: 890-1502-94 Date Collected: 10/25/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 16:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			11381	11/07/21 03:24	CH	XEN MID

Client Sample ID: SW-4 (0-6) Lab Sample ID: 890-1502-95 Date Collected: 10/25/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 00:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 17:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			11381	11/07/21 03:46	CH	XEN MID

Client Sample ID: SW-5 (0-6) Lab Sample ID: 890-1502-96 Date Collected: 10/25/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 00:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 17:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		5			11381	11/07/21 03:53	CH	XEN MID

Lab Sample ID: 890-1502-97 Client Sample ID: SW-6 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 00:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	11364 11416	11/03/21 11:37 11/04/21 17:56	DM AJ	XEN MID XEN MID

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11/10/2021

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-97

Matrix: Solid

Client Sample ID: SW-6 (0-6) Date Collected: 10/25/21 00:00

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	11233	11/02/21 12:00	СН	XEN MID
Soluble	Analysis	300.0		10			11381	11/07/21 04:01	CH	XEN MID

Client Sample ID: SW-7 (0-6) Lab Sample ID: 890-1502-98

Date Collected: 10/26/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 01:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 18:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		10			11381	11/07/21 04:08	CH	XEN MID

Client Sample ID: SW-8 (0-6) Lab Sample ID: 890-1502-99

Date Collected: 10/26/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 01:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		5			11381	11/07/21 04:15	CH	XEN MID

Client Sample ID: SW-9 (0-6) Lab Sample ID: 890-1502-100

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 01:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 19:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		5			11381	11/07/21 04:23	CH	XEN MID

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Job ID: 890-1502-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-10 (0-6)

Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-101 Date Collected: 10/26/21 00:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 05:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 11:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		5			11381	11/07/21 04:30	CH	XEN MID

Client Sample ID: SW-11 (0-6) Lab Sample ID: 890-1502-102

Date Collected: 10/26/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 05:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 12:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 09:36	CH	XEN MID

Client Sample ID: SW-12 (10) Lab Sample ID: 890-1502-103 **Matrix: Solid**

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 06:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 12:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 09:46	CH	XEN MID

Client Sample ID: SW-13 (15) Lab Sample ID: 890-1502-104

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 06:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Matrix: Solid

Released to Imaging: 9/1/2023 3:11:42 PM

Job ID: 890-1502-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-13 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-104

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 12:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			11452	11/08/21 09:57	CH	XEN MID

Client Sample ID: SW-14 (15) Lab Sample ID: 890-1502-105 Date Collected: 10/26/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 06:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 13:16	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 10:07	CH	XEN MID

Client Sample ID: SW-15 (15) Lab Sample ID: 890-1502-106 Date Collected: 10/26/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 07:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 13:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 10:39	CH	XEN MID

Lab Sample ID: 890-1502-107 Client Sample ID: SW-16 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 07:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g	10 mL	11375 11418	11/03/21 13:15 11/04/21 13:59	DM AJ	XEN MID XEN MID

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Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: SW-16 (15)

Lab Sample ID: 890-1502-107

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	11236	11/02/21 12:22	СН	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 10:49	CH	XEN MID

Lab Sample ID: 890-1502-108

Client Sample ID: SW-17 (15) Date Collected: 10/26/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 07:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 14:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			11452	11/08/21 11:00	CH	XEN MID

Client Sample ID: SW-18 (15) Lab Sample ID: 890-1502-109

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 08:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 14:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 11:10	CH	XEN MID

Client Sample ID: SW-19 (15) Lab Sample ID: 890-1502-110

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 08:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 15:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 11:20	CH	XEN MID

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Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-20 (15)

Lab Sample ID: 890-1502-111 Date Collected: 10/26/21 00:00

Matrix: Solid Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 10:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 15:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 11:31	CH	XEN MID

Client Sample ID: SW-21 (15) Lab Sample ID: 890-1502-112 Date Collected: 10/26/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 11114 Total/NA 5.02 g 5 mL 11/01/21 12:18 KL XEN MID Total/NA 8021B 5 mL 11/04/21 10:41 XEN MID Analysis 1 5 mL 11374 MR 11/09/21 10:40 Total/NA Total BTEX 11768 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 11598 11/08/21 15:54 XEN MID Total/NA 11375 XEN MID Prep 8015NM Prep 10.03 g 11/03/21 13:15 DM 10 mL Total/NA Analysis 8015B NM 11418 11/04/21 16:07 AJ XEN MID 11/02/21 12:22 Soluble XEN MID Leach DI Leach 4.99 g 50 mL 11236 CH Soluble Analysis 300.0 10 11452 11/08/21 12:02 CH XEN MID

Client Sample ID: SW-22 (15) Lab Sample ID: 890-1502-113

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 11:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 16:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		10			11452	11/08/21 12:12	CH	XEN MID

Client Sample ID: SW-23 (15) Lab Sample ID: 890-1502-114

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 11:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID

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Matrix: Solid

Matrix: Solid

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-23 (15)

Lab Sample ID: 890-1502-114 Date Collected: 10/26/21 00:00

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 16:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 12:43	CH	XEN MID

Client Sample ID: SW-24 (15) Lab Sample ID: 890-1502-115

Date Collected: 10/26/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 11114 Total/NA Prep 5.03 g 5 mL 11/01/21 12:18 KL XEN MID Total/NA Analysis 8021B 5 mL 5 mL 11374 11/04/21 11:42 MR XEN MID 1 Total/NA Total BTEX XEN MID Analysis 1 11768 11/09/21 10:58 AJ Total/NA Analysis 8015 NM 11598 11/08/21 15:54 XEN MID AJ1 XEN MID Total/NA Prep 8015NM Prep 10.00 g 10 mL 11375 11/03/21 13:15 DM Total/NA Analysis 8015B NM 11418 11/04/21 17:14 AJ XEN MID Soluble Leach DI Leach 5 g 50 mL 11236 11/02/21 12:22 CH XEN MID XEN MID Soluble Analysis 300.0 5 11452 11/08/21 12:54 CH

Client Sample ID: SW-25 (15) Lab Sample ID: 890-1502-116

Date Collected: 10/26/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 12:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 17:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		10			11452	11/08/21 13:04	CH	XEN MID

Client Sample ID: SW-26 (15) Lab Sample ID: 890-1502-117

Date Collected: 10/26/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 12:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	11375 11418	11/03/21 13:15 11/04/21 17:56	DM AJ	XEN MID XEN MID

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-26 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-117

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	11236	11/02/21 12:22	СН	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 13:15	CH	XEN MID

Client Sample ID: SW-27 (15) Lab Sample ID: 890-1502-118

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 12:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 18:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		10			11452	11/08/21 13:25	CH	XEN MID

Client Sample ID: SW-28 (15) Lab Sample ID: 890-1502-119

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 13:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			11452	11/08/21 13:36	CH	XEN MID

Client Sample ID: SW-29 (15) Lab Sample ID: 890-1502-120

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11445	11/04/21 11:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11449	11/05/21 03:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 19:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 13:46	CH	XEN MID

Eurofins Xenco, Carlsbad

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-30 (RS) (6)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-121

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11076	11/01/21 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/01/21 23:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11376	11/03/21 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11414	11/04/21 10:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 14:45	CH	XEN MID

Client Sample ID: SW-31 (RS) (4)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-122

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	11076	11/01/21 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/02/21 00:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11376	11/03/21 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11414	11/04/21 11:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 14:53	CH	XEN MID

Client Sample ID: SW-32 (RS) (6) Lab Sample ID: 890-1502-123

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11076	11/01/21 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/02/21 00:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11376	11/03/21 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11414	11/04/21 12:15	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 15:01	CH	XEN MID

Client Sample ID: SW-33 (RS) (8)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-124

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11076	11/01/21 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/02/21 00:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-33 (RS) (8)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-124

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11376	11/03/21 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11414	11/04/21 12:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 15:08	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	Ni	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report by	it the laboratory is not certifi	ied by the governing authority. This list ma	av include analytes fo
the agency does not of		at the laberatory le het colum	isa by the governing dutionty. The list me	ay molado analytoo lo
0 ,		Matrix	Analyte	ay molado dilalytoo to
the agency does not of	fer certification.	,	, , ,	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1502-1	BH-1 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-2	BH-2 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-3	BH-3 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-4	BH-4 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-5	BH-5 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-6	BH-6 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-7	BH-7 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-8	BH-8 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-9	BH-9 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-10	BH-10 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-11	BH-11 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-12	BH-12 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-13	BH-13 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-14	BH-14 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-15	BH-15 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-16	BH-16 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-17	BH-17 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-18	BH-18 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-19	BH-19 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-20	BH-20 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-21	BH-21 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-22	BH-22 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-23	BH-23 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-24	BH-24 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-25	BH-25 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-26	BH-26 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-27	BH-27 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-28	BH-28 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-29	BH-29 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-30	BH-30 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-31	BH-31 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-32	BH-32 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-33	BH-33 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-34	BH-34 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-35	BH-35 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-36	BH-36 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-37	BH-37 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-38	BH-38 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-39	BH-39 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-40	BH-40 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-41	BH-41 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-42	BH-42 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-43	BH-43 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-44	BH-44 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-45	BH-45 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-46	BH-46 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-47	BH-47 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-48	BH-48 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-49	BH-49 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-50	BH-50 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-51	BH-51 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
					

10/27/21 00:00

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10/29/21 12:45

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Solid

Solid

Solid

BH-52 (15)

BH-53 (15)

BH-54 (15)

890-1502-52

890-1502-53

890-1502-54

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1502-55	BH-55 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-56	BH-56 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-57	BH-57 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-58	BH-58 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-59	BH-59 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-60	BH-60 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-61	BH-61 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-62	BH-62 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-63	BH-63 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-64	BH-64 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-65	BH-65 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-66	BH-66 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-67	BH-67 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-68	BH-68 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-69	BH-69 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-70	BH-70 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-71	BH-71 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-72	BH-72 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-73	BH-73 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-74	BH-74 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-75	BH-75 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-76	BH-76 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-77	BH-77 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-78	BH-78 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-79	BH-79 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-80	BH-80 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-81	BH-81 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-82	BH-82 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-83	BH-83 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-84	BH-84 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-85	BH-85 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-86	BH-86 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-87	BH-87 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-88	BH-88 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-89	BH-89 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-90	BH90 (RS) (6)	Solid	10/28/21 00:00	10/29/21 12:45	6
890-1502-91	BH-91 (RS) (6)	Solid	10/28/21 00:00	10/29/21 12:45	6
890-1502-92	SW-1 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	0 - 6
890-1502-93	SW-2 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	0 - 6
890-1502-94	SW-3 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	0 - 6
890-1502-95	SW-4 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	0 - 6
890-1502-96	SW-5 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	0 - 6
890-1502-97	SW-6 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	0 - 6
890-1502-98	SW-7 (0-6)	Solid	10/26/21 00:00	10/29/21 12:45	0 - 6
890-1502-99	SW-8 (0-6)	Solid	10/26/21 00:00	10/29/21 12:45	0 - 6
890-1502-100	SW-9 (0-6)	Solid	10/26/21 00:00	10/29/21 12:45	0 - 6
890-1502-101	SW-10 (0-6)	Solid	10/26/21 00:00	10/29/21 12:45	0 - 6
890-1502-101	SW-10 (0-6)	Solid	10/26/21 00:00	10/29/21 12:45	0 - 6
890-1502-102	SW-12 (10)	Solid	10/26/21 00:00	10/29/21 12:45	10
890-1502-103	SW-13 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-104	SW-14 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-105		Solid	10/26/21 00:00	10/29/21 12:45	15
	SW-15 (15)				
890-1502-107 800-1502-108	SW-16 (15) SW-17 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15 15
890-1502-108	SW-17 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1 SDG: 212C-MD-02230

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1502-109	SW-18 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-110	SW-19 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-111	SW-20 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-112	SW-21 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-113	SW-22 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-114	SW-23 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-115	SW-24 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-116	SW-25 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-117	SW-26 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-118	SW-27 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-119	SW-28 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-120	SW-29 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-121	SW-30 (RS) (6)	Solid	10/28/21 00:00	10/29/21 12:45	6
890-1502-122	SW-31 (RS) (4)	Solid	10/28/21 00:00	10/29/21 12:45	4
890-1502-123	SW-32 (RS) (6)	Solid	10/28/21 00:00	10/29/21 12:45	6
890-1502-124	SW-33 (RS) (8)	Solid	10/28/21 00:00	10/29/21 12:45	8

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	Relinquished by:		Relinquished by:	Trul 1	Relinquished by:											(LAB USE)	LAB #		Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4	Analysis Reque
	Date: Time:		Date: Time:	March 10/29/21 12:45		BH-10 (6')	ВН-9 (6")	ВН-8 (6')	BH-7 (6')	BH-6 (6')	BH-5 (6')	BH-4 (6')	BH-3 (6')	BH-2 (6')	BH-1 (6')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
ORIGINAL COPY	Received by:		Received by:) (ilea (ile	Received by:	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:	1	
90	Date: Time:		V Date: Time:	P 10.29.21 12.16	Date: Time;	×	×	×	×	×	×	×	×	×	×	WATER SOIL HCL HNO ₃ ICE None		MATRIX PRESERVATIVE METHOD		Ezequiel Moreno		212C-MD-02230		Clair Gonzales	890-1502 Chain of Custody	
(Circle) HAND DELIVERED FEDEX UPS	2.2 Special Repo	Z 、L Rush Charges Authorized	Sample Temperature	ONLY	LAB USE RE	×	×	×	×	×	×	×	×	×		# CONTA FILTERE BTEX 80 TPH TX' TPH 801 TOtal Me TCLP Me TCLP V0 TCLP Se RCI GC/MS \ GC/MS \ PCB's 8	ED (Y 221B 1005 5M (70C tals A setals distile	BTE (Ext to GRO-Ag As B Ag As I s olatiles	C35) DRO - 6 a Cd Cr Ba Cd C	ORO - I Pb Se r Pb Se	Hg			P H		
Tracking #:	Special Report Limits or TRRP Report	s Authorized	o Day 24 hr 48 hr 72 hr		ABO	×	×	×	×	×	×	×	×	×	×	NORM PLM (As Chloride Chloride General Anion/C	S Wat	ulfate er Che		see atta	ached li	st)		Nothod No		Page 1 of 13

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Circle) HAND DELIVERED

FEDEX

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Relinquished by:		Relinquished by:	Crany 10/2	Relinquished by:												ONLY)	LAB #			Comments:	Receiving Laboratory:	Invoice to:	(county, state)	Project Name:	Client Name:	7
Date: Time:		Date: Time:		12/79/2/ 17:46		BH-39 (15')	BH-38 (15')	DI 20 (45)	BH-37 (15')	вн-36 (15')	ВН-35 (15')	BH-34 (15')	BH-33 (15')	BH-32 (15')	BH-31 (15')		SAMPLE IDENTIFICATION				Eurofins Xenco	Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
Received by:		Received by:	MAN	Received by:	10/27/2021	10/27/2021	10/27/2021	1000000	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	DATE	1EAR. 2020		SAMPLING		Sampler Signature:		Project #:		Site Manager:	
			7		×	×	>	< 13	×	×	×	×	×	×	×	WATE	R		MATRIX		Ezec		2120		Clair G	901W Midland Tel (43)
Date: Time:		Date: Time:	フィーク	ime	×	×	 >	\	×	×	×	×	×	×	×	HCL HNO ₃ ICE None		†	PRESERVATIVE		Ezequiel Moreno		212C-MD-02230		Clair Gonzales	901W Wall Sifeet, Sie 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
				х С Л				+								# CON										
		Sample Temperature	0	LAB USE	×					×		×	×	×	×	BTEX TPH T	8021 X100	B 05 (E	BTE xt to	EX 8260 C35) - DRO - (MRO)			ANALYSIS	
		perature				+		+								-	Metals Meta	Ag s Ag		Ba Cd Cr Ba Cd C					SIS REQUEST	
Speci	Rush	RUSI		× S	MADK 6:	-		1				_				RCI GC/MS									S	
al Report l	Rush Charges Authorized	RUSH: Same Day 24 hr		STANDARD	E	+	+										808	ni. V	ol. 8	3270C/62	25				pecify	
Limits or T	\uthorized	Day 24 !		B	×	 	()	×	×	×	×	×	×	×	×	PLM (A	Asbe:	stos)		TDS					Method	
Special Report Limits or TRRP Report		17 48 hr			E	+	+		-							Gener Anion/	al W	ater	Che	mistry (s	see att	ached	list)		d No.)	
ĭ		12 11	1		E	\pm	\downarrow	\downarrow																		

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	Relinquished by:		Relinquished by:	Track	Relinquisbed by:											LAB USE	D III		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4
	Date: Time:		Date: Time:	Marco 10/2912, 12:46	Date: Time:	BH-80 (15')	BH-79 (15')	8н-78 (15')	BH-77 (15')	ВН-76 (15')	ВН-75 (15')	BH-74 (15')	BH-73 (15')	BH-72 (15')	BH-71 (15')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
	Received by:		Received by:	Clac (u	Received by:	10/28/2021	10/28/2021	10/28/2021	10/28/2021	10/28/2021	10/28/2021	10/28/2021	10/28/2021	10/28/2021	10/28/2021	DATE TIME	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
				6		×	×	×	×	×	×	×	×	×	×	WATER SOIL	₹	MATRIX		Eze		2120		Clair G	901W Midland Tel (43)
	Date:		Date: Ti	10.29.21	Date: Tir	×	×	×	×	×	×	×	×	×	×	HCL HNO ₃ ICE		RESERVATIVE METHOD		Ezequiel Moreno		212C-MD-02230		Clair Gonzales	Fig. 32) 682-4559 Tel (432) 682-4559 Fax (432) 682-3946
	- ime:		Time:	1845	Time:											None # CONT	AINE	<u> </u>							×
ļ			W			×	×	×	×	×	×	×	×	×	×	FILTER BTEX 8			EX 8260						
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L			ture													TCLP M	etals	Ag As	Ba Cd Cr Ba Cd C				_ [
	П	П	Н] [>	REMARKS:	-		\vdash	+	\vdash	-	\vdash	H	+	+	TCLP V	-		s					REQUES	
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	al Rep	Charg		٦	T A N	F	1	$oxed{\top}$	1		1		F		1		Semi.	Vol.	8270C/62	25				pecify	
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	Special Report Limits or TRRP Report	Rush Charges Authorized	ıy 24 nı		,	×	×	×	×	×	×	×	×	×	×	PLM (As								Method	
	TRRP	α.		ì		F	-	-	\vdash	+	-	-		+	+	Chloride Genera		ulfate er Che	TDS emistry (see att	ached I	list)			
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	2		127				\perp					#			1										

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	Relinquished by:		Relinquished by:	1	Relinquished by:											(LAB USE)	LAB#		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	7
	Date: Time:		Date: Time:	94:21 12/82/01	Date: Time:	SW-9 (0-6')	SW-8 (0-6')	SW-7 (0-6')	SW-6 (0-6')	SW-5 (0-6')	SW-4 (0-6')	SW-3 (0-6')	SW-2 (0-6')	SW-1 (0-6')	ВН-91 (RS) (6')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
	Received by:		Received by:	Clipe (Sel	Received by:	10/26/2021	10/26/2021	10/26/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/28/2021	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
				6 10		×	×	×	×	×	×	×	×	×	×	WATE SOIL	R	MATRIX		Ezequ		212C		Clair Gonzales	901W Wall Street Midland,Texas 797 Tel (432) 682-4559
	Date: Time:		Date: Time:	29.21	Date: Time:	×	×	×	×	×	×	×	×	×	×	HCL HNO ₃ ICE None		PRESERVATIVE METHOD		Ezequiel Moreno		212C-MD-02230		nzales	901W Wall Sireet. Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
				1045												# CON		ERS							
			Sami		_	×	×	×	×	×	×	×	×	×	×	BTEX			EX 8260	В	<u> </u>				
			Sample Temperature	ONLY	AB USE	×	×	×	×	×	×	×	×	×	×	_	015M		- DRO -	ORO -	MRO)			ANALYSIS	
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C C	s or T	orized	24 H			×	×	×	×	×	×	×	×	×	×	Chlorid	е	Sulfate	TDS					Method	
	Special Report Limits or TRRP Report		17 48 N				士	1								Genera	al Wa	ter Che	emistry (see att	ached I	ist)		Ž Z	
1 8	Report					\vdash	+-	+	+	+	-	-	\vdash		+	Anion/	Catio	n Balar	ice					0	
9			/Z hr				L	F	L		F	F			F										
1			,				1	1	1	1		1	1			4									1

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SW-24 (15') SW-25 (15') SW-26 (15') SW-27 (15') SW-28 (15') SW-29 (15') SW-29 (15') Date: Lo It 912 (Date:			SW-24 SW-25 SW-26 SW-27 SW-28 SW-29	SW-24 (18 SW-25 (18 SW-26 (18 SW-27 (15 SW-28 (18 SW-29 (18	SW-24 (15 SW-25 (15 SW-27 (15 SW-27 (15	SW-24 (15 SW-25 (15 SW-26 (15 SW-27 (15	SW-24 (15 SW-25 (15 SW-26 (1)	SW-24 (15 SW-25 (1)	SW-24 (15		SW-23 (15)	SW-22 (15')	SW-21 (15')	SW-20 (15')	ONLY)	LAB # SAMPLE IDENTIFICATION		Comments:	Receiving Laboratory: Eurofins Xenco	nvoice to: Dusty McInturff - Perr	Project Location: Lea County, New Mexico	Project Name: Kaiser SWD	client Name: Permian Water Solutions	Tetra T	Analysis Request of Chain of Custody Record
5) 5) 5) 5) 5) 5) 7) 7) 8: Time:	Time:	Time:		5) 5) 5) 5)	5) 5) 5) 5)	57) 57) 57) 57)	5) 5) 5)	5) 5) 5) 5)	5)	5)	5)	5')				ICATION				Permian Water Solutions	xico		ions	Tetra Tech, Inc.	cord
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Date: Time: \O'Z\\O'Z\\O'Z\\O'Z\\O'Z\\O'Z\\O'Z\\O'Z	3	퀽	H		×	X	×	×	×	X	×	×	×	×	HCL HNO ₃ ICE None		PRESERVATIVE METHOD		Ezequiel Moreno		212C-MD-02230		าzales	Midland,Texas 79705 Midland,Texas 79705 Tel (432) 682-4569 Fax (432) 682-3946	
			5												# CON		ERS								
Sample Temperature			ONLY	I AR IISE	×	×	×	×	×	×	×	×	×	×	BTEX ITPH TITPH 80	X100	5 (Ext to	EX 8260 C35) - DRO -		MRO)			ANALYSIS		
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	Reinquished by:		Relinquished by:	KI	Relinquished by:										(LABUSE)	LAB#		Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	႕	Analysis Reque
	Date: Time:		Date: Time:	Marra 12182101 12:46	Date: Time:						SW-33 (RS) (8')	SW-32 (RS) (6')	SW-31 (RS) (4')	SW-30 (RS) (6')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
	Received by:		Received by:	Che Co	Received by:						10/28/2021	10/28/2021	10/28/2021	10/28/2021	DATE	YEAR: 2020	SAMPLING		Sampler Signature:	S	Project #:		Site Manager:		
	Date:		U Date:	5-62.01 of	Date:						×	×	×	×	WATER SOIL HCL	₹	MATRIX		Ezequiel Moreno		212C-MD-02230		Clair Gonzales	Midland, Texas 79705 Tel (432) 682-4559 (432) 682-3946	901W Wall Sider, Sie 100
	Time:		Time:	21 1045	Time:						×	×	×	×	HNO ₃ ICE None # CONT.	AINE	PRESERVATIVE (C)		Moreno		-02230		S	9705 59 Fax 2.3946	ser, S/8 100
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	TRR	g.	#						\dashv	1	T				Chloride		ulfate	TDS		abad "	n+\				
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Chain of Custody Record

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Eurollis Aerico, Carlsbau																			_			Aurofine	-	
1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199	•	Chain of Custody Record	of Cust	ody R	90	20															9	မှာ caronna	~	Environment Testing America
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer	~	Jessica	ài			ı		ı	္ထ	Carrier Tracking No(s)	rack	ng N	(s)	ı	- 1	- 1	& C	COC No: 890-488 1		
	Phone			E-Mail jessica kramer@eurofinset com	ia Kra	amer	œu @eu	rofin	set c	a a			Z S	State of Origin New Mexico	Origi	βÞ					70 70	Page Page 1 of 14		
Company Eurofins Xenco					Accreditations Required (See note): NELAP - Louisiana NELAP - Texas	Ditatio	ns Re Loui	quirec	NE (See	A of e	-Te	xas	ŀ			I			- 1	1	∞ 등	Job #: 890-1502-1		
Address 1211 W Florida Ave,	Due Date Requested 11/4/2021	ă				ı				Analysis Requested	<u> </u>	ا چّ	إ	ist	ه ا				- 1	- 1	╗	Preservation Codes	des	- 1
City Midland	TAT Requested (days)	ays)			(m. 1) 1 H J	amedidil	\dashv	\dashv	\dashv	\dashv	1			$ +$ 1						1975			oz₹	M Hexane None
State Zip: TX, 79701					10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TPH														L.) T Q	Na2O4S Na2SO3
Phone: 432-704-5440(TeI)	PO #:				Naripsion) Full		e												,	secutoria.		ı oz	
Email	WO#				000000000000000000000000000000000000000	200000		Chloric												£ 385	edille dien	J DI Water	< ⊂ -	Acetone MCAA
Project Name: Kaiser SWD	Project #: 88000039				omoisement source	-20/09/00/00														ainer		K EDTA L EDA	N S	V pH 4-5 other (specify)
Site:	SSOW#					elizza esperiente														fcon	Jug 288	Other:		
		Sample	Sample Type (C=comp.	Matrix (W=water S=solid,	ld Filtered S form MS/M	5MOD_NM/8	1B/5035FP_0	ORGFM_28	BTEX GC	5MOD_Calc										al Number	ai Number i		1	
		X	Preservation Code:	tion Code:	20000X MIN	2000		- إيرجه	1905	and the same			-	-	-					7 1	Ϋ́	II Innade		opecial instructions/Note
BH-1 (6) (890-1502-1)	10/27/21	Mountain		Solid		×	×	×	<u> </u>	×							l	1000		40	2.0		tabas	
BH-2 (6) (890-1502-2)	10/27/21	Mountain		Solid		×	×	×	Ĵ	×	$\stackrel{\sim}{+}$	\dashv									-			
BH-3 (6) (890-1502-3)	10/27/21	Mountain		Solid		×	×	×	$\widehat{\mathbb{C}}$	×	-		\dashv		\dashv					ak. 1	*1		j	***************************************
BH-4 (6) (890-1502-4)	10/27/21	Mountain		Solid		×	×	×	Ĵ	×		-								and the	, 1			
BH-5 (6) (890-1502-5)	10/27/21	Mountain		Solid		×	×	×	Ĵ	×				-						Ä	199			
BH-6 (6) (890-1502-6)	10/27/21	Mountain		Solid	\dashv	×	×	×		×					_				\neg	- 20.1				***************************************
BH-7 (6) (890-1502-7)	10/27/21	Mountain		Solid		×	×	×	Ĵ	×	-									Jac 2	4			
BH-8 (6) (890-1502-8)	10/27/21	Mountain		Solid		×	×	×	×	×	-									. 46	1 48			
BH-9 (6) (890-1502-9)	10/27/21	Mountain		Solid		×	×	×	×	×	$\stackrel{\sim}{+}$									9/82. A				
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	aces the ownership sing analyzed the s signed Chain of Cu	of method, anal amples must be stody attesting t	yte & accredita shipped back t o said complica	tion complianc o the Eurofins ance to Eurofin	e upor Xenco s Xeno	CO LLC	subco labora	ntract story o	labora r othe	atories r inst	. Thi	s sam Is will	ole sh	ipme ovide	± nt is	orwa iy ch:	rded ange	unde s to a	ccre	ain-o ditati	of-cu	stody If the labors tatus should be bro	atory	' does not currently 'It to Eurofins Xenco LLC
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Environment Testing America

1089 N Canal St Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 **Chain of Custody Record** 💸 eurofins

	Sampler			11 AL D					l	l		l	1	1	l	l	l	l					
Client Information (Sub Contract Lab)				Kramer Jessica	آ بولا	essic	ò						Carr	Carrier Tracking No(s)	cking	(s)ov			~ ~	890-488 2	188 2 9		
Shipping/Receiving	Phone			E-Mail jessica kramer@eurofinset com	ia Kr	amer	@ 	ofin	set c	§			State	State of Origin	g gi					Page: Page	Page: Page 2 of 14		
Eurofins Xenco					Accreditations Required (See not NELAP - Louisiana NELA	ditatio	ns Re Louis	quirec	Accreditations Required (See not NELA)	note)	- Texas	as					ı			Job #	Job #: 890-1502-1		
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State Zip. TX 79701					Merelly come	TPH								*************					nere elemente	m D C Na Na Na	Zn Acetate Nitric Acid NaHSO4	ото	AsNaO2 Na2O4S Na2SO3
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BH-14 (6) (890-1502-14)	10/27/21	Mountain		Solid	-	×	×	×	×	${\times}$	$\neg \dagger$	1							*				The second secon
BH-15 (6) (890-1502 15)	10/27/21	Mountain		Solid		×	×	×	×	×	\dashv	$\neg \uparrow$							4				
BH-16 (6) (890-1502-16)	10/27/21	Mountain		Solid		×	×	×	×	×	\dashv	1						\perp	-s.				
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						-																	

Chain of Custody Record

Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199	,	olialii (Ol Cue	touy it	ואפנטוע	2													America
Client Information (Sub Contract Lab)	Sampler			Lab PM. Kramei	Lab PM. Kramer Jessica	ssica					- 1	Carrie	Carrier Tracking No(s)	cing No	Ś			COC No. 890-488 3	
	Phone:			E-Mail jessic	E-Mail essica kramer@eurofinset com	mer@	euro	inset	com			State	State of Origin New Mexico	8 ₹				Page: Page 3 of 14	
Company: Eurofins Xenco					Accreditations Required (See note) NELAP - Louisiana NELAP	tations P - Lo	Requi	red (So	e note	- Texas	as							Job #: 890-1502-1	
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City Midland	TAT Requested (days):	ays):						_								\dashv		A HCL B NaOH	
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Project Name: Kaiser SWD	Project #: 88000039				CONTROL TO	S_Pre	X	ACH									ainer	K EDTA L EDA	W pH 4-5 Z other (specify)
Site	SSOW#				TOTAL CONTRACTOR	5NM_	c BT	OI_LE									cont	Other:	
			Sample		itered Sa n MS/MSI	D_NM/801	035FP_Ca	GFM_28D/	TEX_GCV D_Calc							***************************************	ımber of		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	<u>Э</u> ,	O=waste/oil, BT=Tissue, A=Air)	TOTAL PARTIES OF	8015N	8021E			00101							Total	Special	Special Instructions/Note
	$\bigg \}$	X	Preservation Code:	ion Code:	×		b i	- January	99%0	100,000	usvitis					litrian.	X	1	
BH-19 (6) (890-1502-19)	10/27/21	Mountain		Solid		×	×	×	×								Terred matrix		
BH 20 (6) (890-1502-20)	10/27/21	Mountain		Solid		×	×	×	×	$\hat{-}$							الجيار		
BH-21 (6) (890-1502-21)	10/27/21	Mountain		Solid		×	×	×	×	^							- X		
BH-22 (6) (890-1502-22)	10/27/21	Mountain		Solid		×	×	×	×	×							ga ll s.	210-220-22	Trivial and the state of the st
BH-23 (6) (890-1502-23)	10/27/21	Mountain		Solid		×	×	×	×	×							بقين		
BH-24 (6) (890-1502-24)	10/27/21	Mountain		Solid		×	×	×	×	<u>×</u>) All A		
BH-25 (15) (890-1502-25)	10/27/21	Mountain		Solid		×	×	×	×	×							-		
BH-26 (15) (890-1502-26)	10/27/21	Mountain		Solid		×	×	×	×	×							, a		
BH-27 (15) (890-1502-27)	10/27/21	Mountain		Solid		×	×	×	×	×							يقيو		
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	laces the ownership eing analyzed the sa signed Chain of Cu	of method ana amples must be stody attesting	llyte & accredita shipped back to said complic	ation complianc to the Eurofins ance to Eurofin	e upon Xenco I s Xenco	out sub LC lab	ocontra	ct labo y or oth	ratorie 1er inst	s This ruction	sampl s will b	e shipr e provi		forwar ny cha	ded un	der cha	iin-of-c ditation	This sample shipment is forwarded under chain-of-custody If the laborions will be provided. Any changes to accreditation status should be	If the laboratory does not currently should be brought to Eurofins Xenco LLC
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Deliverable Requested II III IV Other (specify)	Primary Deliverable Rank.	able Rank. 2	, ,		Sp	ecial	Instru	ction	Special Instructions/QC F	Requ	Requirements	nts							
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Custody Seals Intact. Custody Seal No						Cool	er Tem	peratu	Cooler Temperature(s) °C		and Other Remarks	emark		-			l		

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Chain of

Custody Record
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Environment Testing America

State Zip TX 79701 Project Name Kaiser SWD Midland BH-35 (15) (890-1502-35) BH-34 (15) (890-1502-34) BH-33 (15) (890-1502-33) BH-28 (15) (890-1502-28) BH-36 (15) (890-1502-36) BH-32 (15) (890-1502-32) BH-31 (15) (890-1502-31) BH-30 (15) (890-1502-30) BH-29 (15) (890-1502-29) Sample Identification - Client ID (Lab ID) Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 lote: Since laboratory accreditations are subject to change. Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody naintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status intension in mediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. 432-704-5440(Tel) 1211 W Florida Ave impty Kit Relinquished by Deliverable Requested I II III IV Other (specify) ossible Hazard Identification Custody Seals Intact elinquished by: linquished by rconfirmed lient Information (Sub Contract Lab) rofins Xenco ipping/Receiving Custody Seal No Project #: 88000039 Date/Time: Primary Deliverable Rank 2 ₩0 # Due Date Requested 11/4/2021 Phone FAT Requested (days) 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 Date Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Sample Time (C=comp, G=grab Preservation Code: Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Kramer Jessica essica.kramer@eurofinset.com Time Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Received by 8015MOD_NM/8016NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks × \times \times × × \times \times × × × × × 8021B/5035FP_Calc BTEX × × 300_ORGFM_28D/DI_LEACH Chloride × × × × × × × × × \times × × × × \times × Total_BTEX_GCV Analysis Requested 8015MOD_Calo × × × × × Disposal By Lab State of Origin: New Mexico Carrier Tracking No(s) Date/Time Date/Time Date/Time Total Number of containers 4 1 (mar) A HCL
C Zn Acetale
C Zn Acetale
D Nitric Acid
F MeOH
F Machic
G Amchlor
H Ascorbic Acid
J Dl Water
K EDTA
L EDA COC No 890-488 4 Preservation Codes Page 4 of 14 890-1502-1 If the laboratory does not currently should be brought to Eurofins Xenco Special Instructions/Note N \ < C - I O T O T O Z Z Company Company 4 Mone
4 None
5 AsNaO2
5 Na2O3
5 Na2SO3
6 Na2SO3
6 Na2SO3
6 Na2SO3
7 TSP Dodecahydrate
7 TSP Dodecahydrate
7 Acetone
7 MCAA other (specify) **Vionths**

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eurofins Environment Testing America

Eurofins Xenco, Carlsbad

Carlsbad NM 88220
Phone. 575-988-3199 Fax. 575-988-3199

Chain of Custody Record

	Sampler:			ah PM		Ì					2				l	-	2 2 11	
Client Information (Sub Contract Lab)	The state of the s			Kramer	er Jessica	sica					Came	Camer Tracking No(s))ON BL	3		m C	890-488 5	
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Eurofins Xenco					Accreditations Required (See not NELAP - Louisiana NELA	tions Ru	equired Isiana	NEL	AP - 1	e): P - Texas					- 1	<u> </u>	Job# 890-1502-1	
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City Midland	TAT Requested (days):	ys)				\dashv	\dashv	\exists		-			\dashv	\dashv			A HCL B NaOH	
Siate Zip TX 79701				aumis s a		TPH											C Zn Acetate D Nitric Acid E NaHSO4	O ASN8O2 P N82O4S Q N82SO3
Phone: 432-704-5440(Tel)	PO#				entitionetics tentitioneralis) Full										una colora		
Email	WO#				and the second s		hlorid									the street of	H Ascorbic Acid	
Project Name:	Project#				1 100 1100 1100					····						en-alican	K EDTA	-
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Site	SSOW#:				WOODOON'T WOL											(Sept. Plane	Other:	
			Sample	Matrix	itered : MS/M	D_NM/8	35FP_0 SFM_28	EX_GC	_Caic							mber		
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ВН-38 (15) (890-1502-38)	10/27/21	Mountain		Solid		×	×	×	×	-		_	-	+				
BH-39 (15) (890-1502-39)	10/27/21	Mountain		Solid		×	×	×	×	-		\dashv	\dashv	\neg		**		
BH-40 (15) (890-1502-40)	10/27/21	Mountain		Solid		×	×	×	×	+				7		2		
BH-41 (15) (890-1502-41)	10/27/21	Mountain		Solid		×	×	×	×				\dashv	\dashv		4		
BH-42 (15) (890-1502-42)	10/27/21	Mountain	_	Solid		×	×	×	×	+		-	\dashv	+		_ CEL		
BH-43 (15) (890-1502-43)	10/27/21	Mountain		Solid		×	×	×	×	\dashv		-	-	_		4		
BH-44 (15) (890-1502-44)	10/27/21	Mountain		Solid		×	×	×	×			_	\dashv					
BH-45 (15) (890-1502-45)	10/27/21	Mountain		Solid		×	×	×	×					_		-		
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.	olaces the ownership being analyzed, the sa e signed Chain of Cus	of method ana imples must be stody attesting	lyte & accreditati shipped back to to said complicar	on compliance the Eurofins) ice to Eurofins	(enco LL(Xenco L	t subco C labora LC.	ntract I	aborate	ories. T	his sampli ons will be	shipm	entisfo	rwarde	d unde	r chain ccredit	of-cus	stody If the labor tatus should be b	ratory does not currently rought to Eurofins Xenco LLC
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Chain of Custody Record

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Carlsbad NM 88220 Phone: 575-988-3199 Fax 575-988-3199				ouy I		2													notice and	America
Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	_{Lab PM} Kramer Jessica	ssica						Сап	Carrier Tracking No(s)	cking I	vo(s)				COC No 890-488 6	
Shipping/Receiving	Phone			E-Mail jessic	E-Mail jessıca kramer@eurofinset com	ner@)euro	inset	com			State	State of Origin. New Mexico	g g					Page. Page 6 of 14	
Company Eurofins Xenco					Accreditations Required (See note) NELAP - Louisíana NELAP	tations P - Lo	Requi Duisía	red (So	e note	٠ [Texas	l	l	ı					Job #: 890-1502-1	
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State Zip: TX, 79701					<u>ndambénak</u>	TPH												en en en en en en en en en en en en en e	C Zn Acetate D Nitric Acid E NaHSO4	O AsNaO2 P Na2O4S O Na2SO3
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Project Name Kaiser SWD	Project # 88000039				24522777417722	S_Pre	EX	ACH C										Brookly Die		
Site	SSOW#:				9989888CF2895*	016NM	Calc BT		·V		······································							Sand Sugar States	Other:	
		S S S S S S S S S S S S S S S S S S S	Sample Type		i Filtered orm MS/N	MOD_NM/8	B/5035FP_	ORGFM_28	_BTEX_GO	MOD_Calc								Number		
Sample Identification - Client ID (Lab ID)	Sample Date	Time		<u> 5</u>	1007X97**	801	802	4	-	1001								Tot	Special Ins	Special Instructions/Note
BH-46 (15) (890-1502-46)	10/27/21	Mountain	Solid	Solid	\dashv	×	×	×	×	×	- Long		- Jan			- Alla	L.	• 🏻		Common Co
BH-47 (15) (890-1502-47)	10/27/21	Mountain		Solid	\dashv	×	×	×		<u> </u>								• [
BH-48 (15) (890-1502-48)	10/27/21	Mountain		Solid	-	×	×	<u> </u>	<u>×</u>	×								<u> </u>		
BH-49 (15) (890-1502-49)	10/27/21	Mountain		Solid		×	×	×	×	×	1	\neg						<i>(</i>		
BH-50 (15) (890-1502-50)	10/27/21	Mountain		Solid	-	×	×	×	<u>×</u>	<u> </u>	\dashv							, 		
BH-51 (15) (890-1502-51)	10/27/21	Mountain		Solid		×	×	×	×	×								4		
BH-52 (15) (890-1502-52)	10/27/21	Mountain		Solid		×	×	×	×	×								الخفد	design the state of the state o	
BH-53 (15) (890-1502-53)	10/27/21	Mountain		Solid		×	×	×	×	×								100		
BH-54 (15) (890-1502-54)	10/27/21	Mountain		Solid		×	×	×	×	×								(4 4)	***************************************	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.	aces the ownership sing analyzed the sa signed Chain of Cus	of method anal amples must be stody attesting t	lyte & accredita shipped back to said complica	tion compliance o the Eurofins) ince to Eurofins	upon o (enco L	LC lab	contra	ct labo	ratorie er inst	truction	samp s will b	e ship e provi	ment is	s forwa	arded :	under to ac	chain credit	ation :	stody If the laborator	ry does not currently ght to Eurofins Xenco LLC
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Chain of Custody Record

State Zip TX 79701 BH-55 (15) (890-1502-55) Project Name Kaiser SWD BH-63 (15) (890-1502-63) BH-62 (15) (890-1502-62) BH-61 (15) (890-1502-61) BH-60 (15) (890-1502-60) BH-59 (15) (890-1502-59) BH-58 (15) (890-1502-58) BH-57 (15) (890-1502-57) BH-56 (15) (890-1502-56) Sample Identification - Client ID (Lab ID Midland Carlsbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199 1211 W Florida Ave 432-704-5440(Tel) ote Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody laintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status tention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. elinquished by elinquished by ossible Hazard Identification Custody Seals Intact. mpty Kit Relinquished by eliverable Requested I II III IV Other (specify) linquished by lient Information (Sub Contract Lab) rofins Xenco nipping/Receiving Custody Seal No Project #: 88000039 Phone WO# PO# Date/Time Primary Deliverable Rank TAT Requested (days) Due Date Requested 11/4/2021 Sample Date 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 Date Mountain Mountain Mountair Mountain Mountain Mountain Mountain Mountain Mountain Sample (C=comp, Sample Type Preservation Code: Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Lab PM Kramer Jessica E-Mail: essica.kramer@eurofinset.com Time Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

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J DI Water
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L EDA NaOH

Zn Acetate

Nitric Acid

NaHSO4

MeOH

Amchlor Ascorbic Acid If the laboratory does not currently should be brought to Eurofins Xenco N ≶ < ⊂ Company M Hexane
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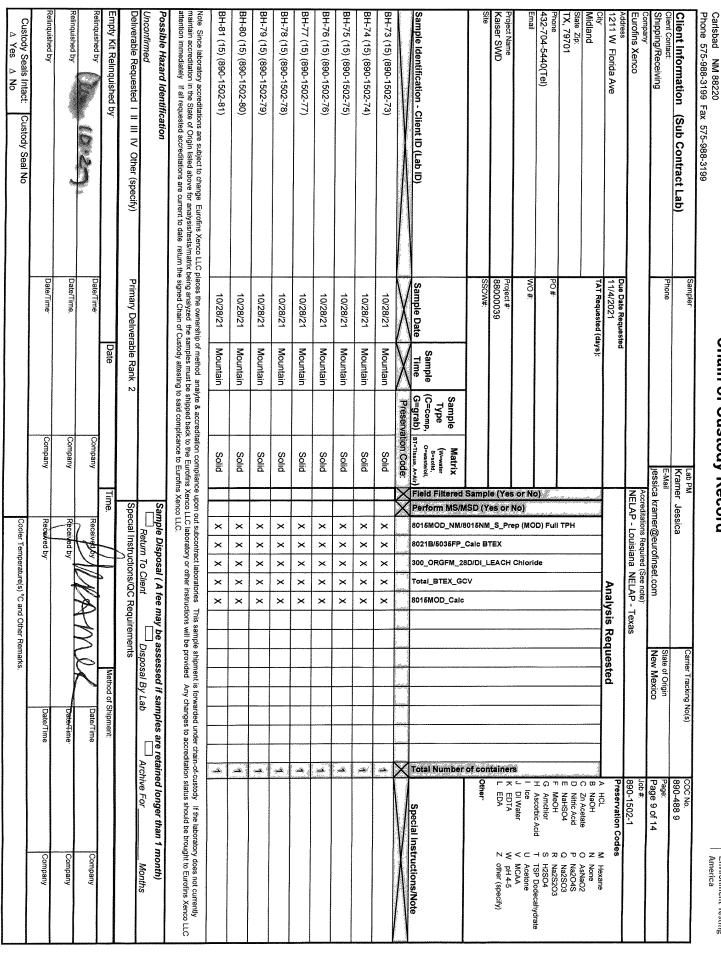
Environment Testing

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Eurofins Xenco, Carlsbad 1089 N Canal St Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199		hain	of Cus	Chain of Custody Record	ec	9	<u> </u>														4.	🐝 eurofins	<u> </u>	Environr America	Environment Testing America	lent	Testi
Client Contact: Shipping/Receiving	Phone			E-Mail jessic	E-Mail jessica kramer@eurofinset com	ame	@ E	urofi	nset	com			- 6	State of Origin New Mexico	Me or	g g					77 70 0	Page: Page 8 of 14					
Company Eurofins Xenco					Accreditations Required (See not NELAP - Louisiana, NELA	ccreditations Required (See not IELAP - Louisiana, NELA	ons R	equire	ia, N	ELAI	_{le)} . P - Texas	exas					ı				œ ⊊	Job #: 890-1502-1		-			
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State, Zip: TX 79701					ng of Common	madilia	IPH														пυс	Nitric Acid	O TI C	OPC Na Na	ASNAUZ Na2O4S Na2SO3	J 07 N	
Phone 432-704-5440(TeI)	PO#). Desired	n Euli) Puii		e 											-3	- <i>Marietan</i>		(O T	동	12S2C	. జ	
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		•	Sample Type	Matrix (w=water s=solid,	Filtered	orm MS/N	MOD_NM/8	3/5035FP_	DRGFM_28	_BTEX_GC	MOD_Calc									Number	Number T			1		j	
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Tissue, A=Air)	Beentoo	Maria de la			├		8015			L						540. VIII.		Special Instructions/Note:	nst	ruct	ions	Ž	ē
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Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	places the ownership being analyzed the sa e signed Chain of Cus	of method and imples must be stody attesting	alyte & accredit s shipped back to said complic	ation compliand to the Eurofins ance to Eurofir	e upo Xenco	o LLC o LLC n out	subco	ontrac	t labo or oth	ratorie er ins	ss. Ti	ins w	npie II be j	shipn	led i	s fon Any	/arde hang	d und	ler ch	ain-c	ion s	stody If the labor tatus should be b	raton	y doe.	s not Eurofi	curre ns Xe	ntly anco l
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Eurofins Xenco, Carlsbad 1089 N Canal St

	Chain of Custody Record	y Record		* Curofins Environment Testing
Fax 575-988-3199				- Allienica
	Sampler	Lab PM	Carrier Tracking No(s)	COC No.
(Sub Contract Lab)		Kramer Jessica	,	890-488 9
	Phone	E-Mail	State of Origin	Page:
		Jessica kramer@eurofinset.com	New Mexico	Page 9 of 14
		Accreditations Required (See note):		Job #:
		NELAP - Louisiana NELAP - Texas		890-1502-1



Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

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W pH 4-5 Z other (specify)	K EDTA L EDA	itainer		************					<u> </u>		EACH	TEX	incompanies and	. Y Y Y X X X X X X X X X X X X X X X X				Project #: 88000039	88 prd	Name SWD	Project Name Kaiser SWD
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	Page Page 10 of 14				io gin	State of Origin New Mexico	State			E-Mail jessica kramer@eurofinset.com	ofinse	@eun	amer(ica kr	E-Mail jessic			Phone:	770	Shipping/Receiving	Shipping/Re
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Eurofins Xenco, Carlsbad

Chain of Custody Record

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Environment Testing

State Zip: TX 79701 SW-8 (0-6) (890-1502-99) SW-7 (0-6) (890-1502-98) SW-6 (0-6) (890-1502-97) SW-5 (0-6) (890-1502-96) SW-4 (0-6) (890-1502-95) BH-91 (RS) (6) (890-1502-91) Sample Identification - Client ID (Lab ID) Project Name Kaiser SWD SW-3 (0-6) (890-1502-94) SW-2 (0-6) (890-1502-93) SW-1 (0-6) (890-1502-92) Shipping/Receiving 432-704-5440(Tel) Eurofins Xenco Client Information (Sub Contract Lab) ≅mpty Kit Relir Possible Hazard Identification ttention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. Vote Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently native to be consistent of the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC Midland 1211 W Florida Ave telinquished by elinquished by Deliverable Requested I III IV Other (specify) Custody Seals Intact: . Yes iguished by õ Custody Seal No Phone: Date/Time ۷ O Sampler Date/Time Due Date Requested Date/Time Primary Deliverable Rank 2 88000039 TAT Requested (days): 1/4/2021 Sample Date 10/25/21 10/26/21 10/25/21 10/25/21 10/25/21 10/25/21 10/28/21 10/26/21 10/25/21 Date Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Sample (C=comp, Sample Type Preservation Code: Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid jessica kramer@eurofinset com Kramer Jessica Accreditations Required (See note)
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AsklaC2

Na2O4S

Na2SO3

Na2SO3

Na2SCO3

S H2SO4

T TSP Dodecahydrate Ver: 06/08/2021 Acetone MCAA other (specify)

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199 **Chain of Custody Record** 🤹 eurofins Environment Testing America

	Callibia							-					
Client Information (Sub Contract Lab)				Kran	Kramer Jessica							890-488 12	
Shipping/Receiving	rnorie:			jessic	E-Mail jessica kramer@eurofinset com	urofinse	com	7 0	State of Origin New Mexico	8 =		Page 12 of 14	
Company Eurofins Xenco					Accreditations Required (See note) NELAP - Louisiana NELAP	Required (S	0 9	Texas				Job#: 890-1502-1	
Address 1211 W Florida Ave	Due Date Requested 11/4/2021	ā.					Analy	nalvsis Requested	ested			Preservation Codes	les
City: Midland	TAT Requested (days)	ys)			******* *******							A HCL B NaOH	M Hexane N None
State, Zip TX 79701					at rever eye A Ostoria son te							D Nitric Acid E NaHSO4	O ASNAO2 P Na2O4S Q Na2SO3
Phone 432-704-5440(Tel)	PO #				nggarang manakaban	ie							
Email	WO#				lo)	Chloric					<u> </u>	J Di Water	U Acetone V MCAA
Project Name: Kajser SWD	Project #-				s or h						iner	L EDA	W pH 4-5 Z other (specify)
Site	SSOW#				D (Ye						f cont	Other:	
			Sample Type	Matrix (w=water	Filtered S rm MS/MS	76035FP_C	BTEX_GC\				Number o		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Tissue, A=Air)	Pe	1	4		-		To	Special Ir	Special Instructions/Note
SW-9 (0-6) (890-1502-100)	10/26/21	Mountain	Solid	Solid	×	×	×	100			- S		
SW-10 (0-6) (890-1502-101)	10/26/21	Mountain		Solid	×	×	- ⊦		_				
SW-11 (0-6) (890-1502-102)	10/26/21	Mountain		Solid	×	×	×						
SW-12 (10) (890-1502-103)	10/26/21	Mountain		Solid	×	×	×						
SW-13 (15) (890-1502-104)	10/26/21	Mountain		Solid	×	×	×						The special section of the section o
SW-14 (15) (890-1502-105)	10/26/21	Mountain		Solid	×	×	×				د هده		
SW-15 (15) (890-1502-106)	10/26/21	Mountain		Solid	×	×	×			_	-		
SW-16 (15) (890-1502-107)	10/26/21	Mountain		Solid	×	×	×				_		1112
SW-17 (15) (890-1502-108)	10/26/21	Mountain		Solid	×	×	×						
Note: Since laboratory accreditations are subject to change. Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	places the ownership to being analyzed the sa the signed Chain of Cus	of method ana imples must be stody attesting	alyte & accredit e shipped back to said complic	ation compliand to the Eurofins ance to Eurofin	e upon out subc Xenco LLC labo s Xenco LLC	ontract laboratory or ot	oratories her instruct	This sample s tions will be pi	nipment is f ovided Ar	orwarded u y changes	nder chain-of to accreditation	custody If the labora	This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently stions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.
Possible Hazard Identification Unconfirmed					Sample Disposal (A	le Disposal (A f Return To Client	fee #	nay be as: \Box_{Dis}	assessed if san Disposal By Lab	samples	are retain	may be assessed if samples are retained longer than 1 month) — Disposal By Lab Archive For	(month)
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank	able Rank 2	2		Special Instructions/Q	struction		C Requirements	ŭ [
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Custody Seals Intact: Custody Seal No					Cooler	Cooler Temperature(s	ဂိ	and Other Remarks	arks.				

Carlsbad NM 88220

1089 N Canal St

Eurofins Xenco, Carlsbad

13 14

Chain of Custody Record

575-988-3199					40
	Sampler:	Lab PM	Carrier Tracking No(s).	COC No:	
ub Contract Lab)		Kramer Jessica		890-488 13	1
	Phone	E-Mail·	State of Origin.	Page:	
		jessica.kramer@eurofinset.com		Page 13 of 14	
		Accreditations Required (See note)		Job#·	
		NELAP - Louisiana NELAP - Texas		890-1502-1	
	Due Date Requested			Preservation Codes	
	11/4/2021	Analysis Requested	quested		
	TAT Requested (days)			B NaOH N None	
		A STATE OF THE STA		0	
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		TP		ಎ	

Project Name Kaiser SWD SW-25 (15) (890-1502-116) SW-24 (15) (890-1502-115) SW-23 (15) (890-1502-114) SW-22 (15) (890-1502-113) SW-18 (15) (890-1502-109) Phone 575-988-3199 Fax. Deliverable Requested I II III IV Other (specify) Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC. SW-26 (15) (890-1502-117) SW-21 (15) (890-1502-112) SW-20 (15) (890-1502-111) SW-19 (15) (890-1502-110) Sample Identification - Client ID (Lab ID 432-704-5440(Tel) TX 79701 Midland Empty Kit Relinquished by State, Zip Shipping/Receiving Client Information (S ossible Hazard Identification 1211 W Florida Ave elinquished by: Custody Seals Intact. linquished by: urofins Xenco nquished by: Yes S. Custody Seal No Date/Time Date/Time WO Date/Time Primary Deliverable Rank 2 88000039 roject # Sample Date 10/26/21 10/26/21 10/26/21 10/26/21 10/26/21 10/26/21 10/26/21 10/26/21 10/26/21 Date Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain G=grab) (C=comp Sample Preservation Code: Company BT=Tissue, A=Ai Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Hime Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) 8015MOD_NM/8015NM_S_Prep (MOD) Full Cooler Temperature(s) °C and Other Remarks × × × × × \times × × × Return To Client aived × \times × × 8021B/6035FP_Calc BTEX × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × Total_BTEX_GCV \times × × × × × × × × × × × × × × 8015MOD_Calc Disposal By Lab Method of Shipment Date/Time Date/Time a Line Archive For 4 Total Number of containers . , **... ~** 200 , 1 _ I O I F MeOH
G Amchlor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA Special Instructions/Note N ≶ < C ⊣ 0 7 Company Na2S2O3 H2SO4 TSP Dodecahydrate Acetone MCAA pH 4-5 E

Environment Testing

Ver: 06/08/2021

Eurofins Xenco, Carlsbad 1089 N Canal St.

Chain of Custody Record

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Environ	

America

Phone 575-988-3199 Fax 575-988-3199 Client Information (Sub Contract Lab)	Sampler			Lab PM	2	3					Carrier Tracking No(s)	Tracki	ng No	*			COC No:	
ı	Phone.			E-Mail	E-Mail		fined	3			State of Origin.	f Origin	,]			J 0 0	Page:	
Company Eurofins Xenco				7 ▷	Accreditations Required (See NELAP - Louisiana NEI	ons Req	ana N)- Texas	- 1			ľ			<u> </u>	Job #:	
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State, Zip. TX 79701					andatent	1111										moc	D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO#				argar njara maasalkans		e						······································			. ()		R Na2S2O3 S H2SO4
Email	WO#:				o).		hlorid				·					in Continue	H ASCORDIC ACID I Ice J DI Water	
Project Name. Kaiser SWD	Project #. 88000039				s or N		ACH (A 100 110 at	K EDTA K EDA	W pH 4-5 2 other (specify)
Site	SSOW#:				SD (Ye		D/DI_LE	v								29 11/1/19	Other:	
		Sample	Sample I Type (C=comp, o	Matrix (w-water S=solid, O-waste/oil,	id Filtered : rform MS/M 5MOD_NM/8	21B/5035FP_(ORGFM_28	al_BTEX_GC	5MOD_Calc			····				al Number		
			Preservation Code:		X.	-	3	-	18		1		+			¥Τ	Special instructions/Note	ISTRUCTION
SW-27 (15) (890-1502-118)	10/26/21	Mountain	Managha and a state of the stat	Solid		×	×	×	×				- 6	-		-	A STATE OF THE STA	
SW-28 (15) (890-1502-119)	10/26/21	Mountain		Solid		×	×	×	$\stackrel{\times}{+}$			_		_				
SW-29 (15) (890-1502-120)	10/26/21	Mountain		Solid		×	×	×	×			\dashv	\dashv	\dashv		*		***************************************
SW-30 (RS) (6) (890-1502-121)	10/28/21	Mountain		Solid		×	×	×	<u> </u>		\perp	_	-+	+				
SW-31 (RS) (4) (890-1502-122)	10/28/21	Mountain		Solid		×	×	×	×			_		\dashv		4	THE REAL PROPERTY AND ADDRESS OF THE PERSON	
SW-32 (RS) (6) (890-1502-123)	10/28/21	Mountain		Solid		×	×	×	<u>×</u>		\perp	_	\dashv			4		
SW-33 (RS) (8) (890-1502-124)	10/28/21	Mountain		Solid		×	×	×	×			1 1	-	+		, Albert		
						-		_	\dashv			_	\dashv	-				
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laborat maintain accreditation in the State of Origin listed above for analysistlests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC	C places the ownership x being analyzed the sa the signed Chain of Cu	of method ana amples must be stody attesting	llyte & accreditatio shipped back to to to said complicand	n compliance the Eurofins X to Eurofins	upon out (enco LLC Xenco LL	subcont laborate C	act lab	oratories. her instruc	s. This	sample will be	shipm provid	entis fi ed An	orward / chan	ed und	r chain ccredit	of-cus	ories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.	tory does no rught to Euro
Possible Hazard Identification Unconfirmed					Sam	Sample Disposal (A fee	'e Disposal (A f Return To Client	(Afe		may be assessed if samples	assessed if san Disposal By I ah	ed if	sam,	les a	□ret	ainec	are retained longer than 1 Archive For	mo
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Custody Seals Intact. Custody Seal No					Q.	Cooler Temperature	nperatu	re(s) °C	and	Other Remarks	narks.		ŀ		١			f

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1502-1

SDG Number: 212C-MD-02230

Login Number: 1502 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

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	
s 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 <6 mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1502-1

SDG Number: 212C-MD-02230

List Source: Eurofins Xenco, Midland

List Creation: 11/01/21 08:46 AM

Creator: Kramer, Jessica

Login Number: 1502

List Number: 2

<6mm (1/4").

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	2.6/2.7
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	N/A	

Eurofins Xenco, Carlsbad

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2290-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 5/16/2022 4:19:28 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

.....LINKS

results through

Review your project

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 9/1/2023 3:11:42 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2290-1 SDG: Lea County NM

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QC Sample Results	25
QC Association Summary	32
Lab Chronicle	38
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Method Summary	46
Sample Summary	47
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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Qualifiers

GC VOA

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.

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.

HPLC/IC

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

Eurofins Carlsbad

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2290-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2290-1

Receipt

The samples were received on 5/6/2022 3:23 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 11.8°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-25199/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-25199 and analytical batch 880-25231 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25221 and analytical batch 880-25235 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was 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.

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Lab Sample ID: 890-2290-1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-92

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 14:33	
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 14:33	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 14:33	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/14/22 12:33	05/15/22 14:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 14:33	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/14/22 12:33	05/15/22 14:33	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130			05/14/22 12:33	05/15/22 14:33	
1,4-Difluorobenzene (Surr)	103		70 - 130			05/14/22 12:33	05/15/22 14:33	1
- Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/16/22 16:56	-
Analyte Total TPH	Result 522	Qualifier		Unit mg/Kg	D	Prepared	Analyzed 05/11/22 10:27	Dil Fa
Total IPH	522		50.0	mg/Kg			05/11/22 10:27	
							00/11/22 10:21	ĺ
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)					00/11/22 10:27	ĺ
		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	
Analyte		Qualifier	RL	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 05/10/22 08:18		Dil Fac
Analyte	Result	Qualifier			<u>D</u>		Analyzed	Dil Fac
C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier	50.0	mg/Kg	<u> </u>	05/10/22 08:18	Analyzed 05/10/22 13:54	Dil Fac
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0 346 176 %Recovery	Qualifier U	50.0 50.0 50.0	mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 Prepared	Analyzed 05/10/22 13:54 05/10/22 13:54 05/10/22 13:54 Analyzed	Dil Fac
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	Result <50.0 346 176	Qualifier U	50.0 50.0 50.0	mg/Kg mg/Kg	<u> </u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18	Analyzed 05/10/22 13:54 05/10/22 13:54 05/10/22 13:54	Dil Fac
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	Result <50.0 346 176 %Recovery	Qualifier U	50.0 50.0 50.0	mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 Prepared	Analyzed 05/10/22 13:54 05/10/22 13:54 05/10/22 13:54 Analyzed	Dil Fac
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	Result <50.0 346 176	Qualifier U Qualifier	50.0 50.0 50.0 Limits 70 - 130	mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 Prepared 05/10/22 08:18	Analyzed 05/10/22 13:54 05/10/22 13:54 05/10/22 13:54 Analyzed 05/10/22 13:54	Dil Fac
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Result <50.0 346 176	Qualifier U Qualifier	50.0 50.0 50.0 Limits 70 - 130	mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 Prepared 05/10/22 08:18	Analyzed 05/10/22 13:54 05/10/22 13:54 05/10/22 13:54 Analyzed 05/10/22 13:54	Dil Fac

Client Sample ID: BH-93

Date Collected: 05/06/22 00:00

Lab Sample ID: 890-2290-2

Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 15:01	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 15:01	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 15:01	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/14/22 12:33	05/15/22 15:01	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 15:01	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/14/22 12:33	05/15/22 15:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/14/22 12:33	05/15/22 15:01	

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Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-93 Lab Sample ID: 890-2290-2

Date Collected: 05/06/22 00:00 Matrix: Solid
Date Received: 05/06/22 15:23

Sample Depth: 5

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130			05/14/22 12:33	05/15/22 15:01	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/16/22 16:56	1
Total TPH	145		49.9	mg/Kg	<u>_</u>		05/11/22 10:27	1
Analyte Total TPH		Qualifier	RL	Unit ma/Ka	D	Prepared	Analyzed	Dil Fac
_								
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Method: 8015B NM - Diesel Ra Analyte	• • •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	• • •	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 05/10/22 08:18	Analyzed 05/10/22 16:05	Dil Fac
Analyte C6-C10 Diesel Range Organics (Over	Result	Qualifier			<u>D</u>			Dil Fac
Analyte C6-C10	Result <49.9	Qualifier	49.9	mg/Kg	<u>D</u>	05/10/22 08:18	05/10/22 16:05	Dil Fa

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130	05/10/22 08:18	05/10/22 16:05	1
o-Terphenyl (Surr)	113		70 - 130	05/10/22 08:18	05/10/22 16:05	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	976	24.9	mg/Kg			05/12/22 07:44	5

Client Sample ID: BH-94

Date Collected: 05/06/22 00:00

Lab Sample ID: 890-2290-3

Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Total TPH

C28-C36)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:33	05/15/22 15:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:33	05/15/22 15:28	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/14/22 12:33	05/15/22 15:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/14/22 12:33	05/15/22 15:28	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/14/22 12:33	05/15/22 15:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/14/22 12:33	05/15/22 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/14/22 12:33	05/15/22 15:28	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/14/22 12:33	05/15/22 15:28	1
Method: Total BTEX - Total B	TEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/16/22 16:56	1
Mothod: 2015 NM Discol Box	nge Organics (DR	O) (GC)						
Method: 8015 NM - Diesel Rar	ige Organics (Dit	-, ()						

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05/11/22 10:27

50.0

mg/Kg

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Lab Sample ID: 890-2290-3

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-94

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 14:16	1
Diesel Range Organics (Over C10-C28)	247		50.0	mg/Kg		05/10/22 08:18	05/10/22 14:16	1
Oll Range Organics (Over C28-C36)	165		50.0	mg/Kg		05/10/22 08:18	05/10/22 14:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)			70 - 130			05/10/22 08:18	05/10/22 14:16	1
o-Terphenyl (Surr)	100		70 - 130			05/10/22 08:18	05/10/22 14:16	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
•								

Lab Sample ID: 890-2290-4 **Client Sample ID: BH-95** Date Collected: 05/06/22 00:00 Matrix: Solid

Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 15:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 15:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 15:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/14/22 12:33	05/15/22 15:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 15:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/14/22 12:33	05/15/22 15:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/14/22 12:33	05/15/22 15:56	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/14/22 12:33	05/15/22 15:56	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared		
						ricparca	Analyzed	Dil Fac
Total TPH	244		50.0	mg/Kg		Troparca	05/11/22 10:27	Dil Fac
• ***		RO) (GC)	50.0	mg/Kg				
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC) Qualifier	50.0 RL	mg/Kg Unit		Prepared		1
Method: 8015B NM - Diesel Ra Analyte	nge Organics (D	Qualifier				<u> </u>	05/11/22 10:27	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over C10-C28)	nge Organics (D	Qualifier	RL	Unit	<u>D</u>	Prepared	05/11/22 10:27 Analyzed	1
Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over	nge Organics (D Result <50.0	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 05/10/22 08:18	05/11/22 10:27 Analyzed 05/10/22 14:37	Dil Fac
Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	nge Organics (D Result <50.0	Qualifier U	RL 50.0 50.0	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 05/10/22 08:18 05/10/22 08:18	05/11/22 10:27 Analyzed 05/10/22 14:37 05/10/22 14:37 Analyzed	Dil Fac 1 1
Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	nge Organics (D Result <50.0 113	Qualifier U	RL 50.0 50.0 50.0	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 05/10/22 08:18 05/10/22 08:18	05/11/22 10:27 Analyzed 05/10/22 14:37 05/10/22 14:37	1 Dil Fac 1

Job ID: 890-2290-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-95 Lab Sample ID: 890-2290-4 Date Collected: 05/06/22 00:00

Matrix: Solid Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 300.0 - Anions, Ion Chroma	atography - S	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3780		49.5	mg/Kg			05/12/22 08:00	10

Client Sample ID: BH-96 Lab Sample ID: 890-2290-5

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 16:23	
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 16:23	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 16:23	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 16:23	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 16:23	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 16:23	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130			05/14/22 12:33	05/15/22 16:23	
1,4-Difluorobenzene (Surr)	102		70 - 130			05/14/22 12:33	05/15/22 16:23	1
Method: Total BTEX - Total BTI	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	166		49.9	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 15:21	1
Diesel Range Organics (Over C10-C28)	55.3		49.9	mg/Kg		05/10/22 08:18	05/10/22 15:21	1
Oll Range Organics (Over C28-C36)	111		49.9	mg/Kg		05/10/22 08:18	05/10/22 15:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			05/10/22 08:18	05/10/22 15:21	1
o-Terphenyl (Surr)	95		70 - 130			05/10/22 08:18	05/10/22 15:21	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		25.2	mg/Kg			05/12/22 08:08	

Lab Sample ID: 890-2290-6

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-97

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 16:50	
Toluene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 16:50	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 16:50	
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/14/22 12:33	05/15/22 16:50	
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 16:50	
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/14/22 12:33	05/15/22 16:50	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130			05/14/22 12:33	05/15/22 16:50	
1,4-Difluorobenzene (Surr)	101		70 - 130			05/14/22 12:33	05/15/22 16:50	
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/16/22 16:56	
Analyte Total TPH	Result	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/11/22 10:27	Dil Fa
IOTALIPH -	238		49.9	mg/kg			05/11/22 10.27	
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
C6-C10	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 14:59	
Diesel Range Organics (Over C10-C28)	97.6		49.9	mg/Kg		05/10/22 08:18	05/10/22 14:59	
Oll Range Organics (Over C28-C36)	140		49.9	mg/Kg		05/10/22 08:18	05/10/22 14:59	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane (Surr)	108		70 - 130			05/10/22 08:18	05/10/22 14:59	
o-Terphenyl (Surr)	99		70 - 130			05/10/22 08:18	05/10/22 14:59	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	49.8		D	Prepared	Analyzed	Dil Fa

Client Sample ID: BH-98 Lab Sample ID: 890-2290-7

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 17:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 17:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 17:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 17:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 17:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 17:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			05/14/22 12:33	05/15/22 17:16	1

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Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-98 Lab Sample ID: 890-2290-7

Date Collected: 05/06/22 00:00 Matrix: Solid
Date Received: 05/06/22 15:23

Sample Depth: 5

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130			05/14/22 12:33	05/15/22 17:16	1
Method: Total BTEX - Total B	ΓEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	102		50.0	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel R	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 15:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 15:43	1
Oll Range Organics (Over	102		50.0	mg/Kg		05/10/22 08:18	05/10/22 15:43	1
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			05/10/22 08:18	05/10/22 15:43	1
o-Terphenyl (Surr)	108		70 - 130			05/10/22 08:18	05/10/22 15:43	

Analyte	Result Qualifier	RL	Unit I	D Pr	repared	Analyzed	Dil Fac	
Method: 300.0 - Anions, Ion Chromatogra	aphy - Soluble							
o-reiphenyi (Surr)	100	70 - 130		05/10	0/22 06.16 03.	10/22 15.43	,	

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73.6

Client Sample ID: BH-99

Date Collected: 05/06/22 00:00

Matrix: Solid

25.0

mg/Kg

mg/Kg

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:33	05/15/22 17:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:33	05/15/22 17:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:33	05/15/22 17:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/14/22 12:33	05/15/22 17:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:33	05/15/22 17:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/14/22 12:33	05/15/22 17:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			05/14/22 12:33	05/15/22 17:42	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/14/22 12:33	05/15/22 17:42	1
Method: Total BTEX - Total BT	ΓEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/16/22 16:56	1
- Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						

Eurofins Carlsbad

05/11/22 10:27

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Total TPH

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05/12/22 13:33

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Lab Sample ID: 890-2290-8

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-99

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 16:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 16:26	1
Oll Range Organics (Over C28-C36)	73.6		50.0	mg/Kg		05/10/22 08:18	05/10/22 16:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			05/10/22 08:18	05/10/22 16:26	1
o-Terphenyl (Surr)	96		70 - 130			05/10/22 08:18	05/10/22 16:26	1
- Method: 300.0 - Anions, Ion C	hromatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2860	-	24.9	mg/Kg			05/12/22 13:41	5

Lab Sample ID: 890-2290-9 **Client Sample ID: BH-100** Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 18:09	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 18:09	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 18:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/14/22 12:33	05/15/22 18:09	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 18:09	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/14/22 12:33	05/15/22 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			05/14/22 12:33	05/15/22 18:09	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/14/22 12:33	05/15/22 18:09	1
Method: Total BTEX - Total BT	EX Calculation							
	Popult	Ouglities.		1114		Dropored	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Allalyzeu	D uo
Total BTEX	<0.00396		0.00396	mg/Kg		Prepared	05/16/22 16:56	1
Total BTEX	<0.00396	U				герагеи		
<u>·</u>	<0.00396	U			D	Prepared		
Total BTEX Method: 8015 NM - Diesel Ran	<0.00396	U (GC)	0.00396	mg/Kg	<u> </u>		05/16/22 16:56	1
Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	<0.00396 age Organics (DR Result 56.8	O) (GC) Qualifier	0.00396	mg/Kg	<u> </u>		05/16/22 16:56 Analyzed	1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Ran Analyte	<0.00396 age Organics (DR Result 56.8 ange Organics (D	O) (GC) Qualifier	0.00396	mg/Kg	<u> </u>		05/16/22 16:56 Analyzed	1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra	<0.00396 age Organics (DR Result 56.8 ange Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	0.00396 RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	05/16/22 16:56 Analyzed 05/11/22 10:27	Dil Fac
Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte	<0.00396 age Organics (DR Result 56.8 ange Organics (D Result	O) (GC) Qualifier RO) (GC) Qualifier U	0.00396 RL 49.9	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	05/16/22 16:56 Analyzed 05/11/22 10:27 Analyzed	Dil Fac Dil Fac
Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10	<0.00396 rige Organics (DR Result 56.8 range Organics (D Result <49.9	O) (GC) Qualifier RO) (GC) Qualifier U	0.00396 RL 49.9 RL 49.9	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 05/10/22 08:18	05/16/22 16:56 Analyzed 05/11/22 10:27 Analyzed 05/10/22 16:49	Dil Fac Dil Fac 1
Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over	<0.00396 rige Organics (DR Result 56.8 range Organics (D Result <49.9	O) (GC) Qualifier RO) (GC) Qualifier U	0.00396 RL 49.9 RL 49.9	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 05/10/22 08:18	05/16/22 16:56 Analyzed 05/11/22 10:27 Analyzed 05/10/22 16:49	Dil Fac Dil Fac
Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00396 age Organics (DR Result 56.8 ange Organics (D Result <49.9 <49.9 56.8	O) (GC) Qualifier RO) (GC) Qualifier U	RL 49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/10/22 08:18 05/10/22 08:18 05/10/22 08:18	05/16/22 16:56 Analyzed 05/11/22 10:27 Analyzed 05/10/22 16:49 05/10/22 16:49 05/10/22 16:49	Dil Fac Dil Fac 1 Dil Fac 1
Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	<0.00396 age Organics (DR Result 56.8 ange Organics (D Result 49.9 49.9	O) (GC) Qualifier RO) (GC) Qualifier U	RL 49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 05/10/22 08:18 05/10/22 08:18	05/16/22 16:56 Analyzed 05/11/22 10:27 Analyzed 05/10/22 16:49 05/10/22 16:49	Dil Fac Dil Fac 1 Dil Fac

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Client: Tetra Tech, Inc.

Job ID: 890-2290-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-100 Lab Sample ID: 890-2290-9

Date Collected: 05/06/22 00:00 Matrix: Solid
Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5050	49.7	mg/Kg			05/12/22 13:49	10

Client Sample ID: BH-101 Lab Sample ID: 890-2290-10

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 18:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 18:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 18:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/14/22 18:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 18:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/14/22 18:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/14/22 12:37	05/14/22 18:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/14/22 12:37	05/14/22 18:28	1

Analyte	Result	Quanner	112	Oilit	 ricparca	Allalyzou	Diriac	
Total BTEX	<0.00398	U	0.00398	mg/Kg	 	05/16/22 16:56	1	
 Method: 8015 NM - Diesel Range O	rganics (DRC	O) (GC)						

Result Qualifier

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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Range	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

4 64 4 46 3	40=				05//0/00 00 /0	0=//0/00 /0 /0	
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/10/22 08:18	05/10/22 12:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/10/22 08:18	05/10/22 12:49	1
C6-C10	<49.9	U F1 F2	49.9	mg/Kg	05/10/22 08:18	05/10/22 12:49	1
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1-Chlorooctane (Surr)	105		70 - 130	05/10/2	22 08:18	05/10/22 12:49	1	
o-Terphenyl (Surr)	103		70 - 130	05/10/2	22 08:18	05/10/22 12:49	1	
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metriod: 300.0 - Ariions, for Cirromatography - Soluble							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2460	24.8	mg/Kg			05/12/22 13:57	5

Client Sample ID: BH-102

Date Collected: 05/06/22 00:00

Lab Sample ID: 890-2290-11

Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 8021B - Volatile Organic (Method: 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00201	U	0.00201	mg/Kg	_	05/14/22 12:37	05/14/22 18:55	1		

Lab Sample ID: 890-2290-11

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-102

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/14/22 18:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/14/22 18:55	•
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/14/22 12:37	05/14/22 18:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/14/22 18:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/14/22 12:37	05/14/22 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			05/14/22 12:37	05/14/22 18:55	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/14/22 12:37	05/14/22 18:55	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Range	Organics (DP)	O) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:32	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130			05/10/22 08:18	05/10/22 17:32	1
o-Terphenyl (Surr)	118		70 - 130			05/10/22 08:18	05/10/22 17:32	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-103

Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 19:21	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 19:21	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 19:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/14/22 12:37	05/14/22 19:21	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 19:21	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/14/22 12:37	05/14/22 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			05/14/22 12:37	05/14/22 19:21	1
1,4-Difluorobenzene (Surr)	104		70 - 130			05/14/22 12:37	05/14/22 19:21	1

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Lab Sample ID: 890-2290-12

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Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2290-1 SDG: Lea County NM

Lab Sample ID: 890-2290-12

Matrix: Solid

Client Sample ID: BH-103 Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:54	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:54	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			05/10/22 08:18	05/10/22 17:54	1
o-Terphenyl (Surr)	97		70 - 130			05/10/22 08:18	05/10/22 17:54	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7750		49.9	mg/Kg			05/12/22 14:30	10

Client Sample ID: BH-104 Lab Sample ID: 890-2290-13 Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 19:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 19:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 19:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/14/22 19:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 19:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/14/22 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			05/14/22 12:37	05/14/22 19:48	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/14/22 12:37	05/14/22 19:48	1
•			70 - 130			05/14/22 12:37	05/14/22 19:48	1
: Method: Total BTEX - Total BT	EX Calculation	Qualifier	70 - 130 RL	Unit	D	05/14/22 12:37 Prepared	05/14/22 19:48 Analyzed	1 Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX	EX Calculation			Unit mg/Kg	<u>D</u>			Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX	TEX Calculation Result <0.00398	U	RL		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran	EX Calculation Result <0.00398 age Organics (DR	U	RL		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte	EX Calculation Result <0.00398 age Organics (DR	O) (GC) Qualifier	RL 	mg/Kg		Prepared	Analyzed 05/16/22 16:56	1
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	Result <pre></pre> <pre>Calculation Result Result <50.0</pre>	U O) (GC) Qualifier U		mg/Kg		Prepared	Analyzed 05/16/22 16:56 Analyzed	1
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result	U O) (GC) Qualifier U		mg/Kg		Prepared	Analyzed 05/16/22 16:56 Analyzed	1

Lab Sample ID: 890-2290-13

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-104

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC) (C	Continued)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 18:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			05/10/22 08:18	05/10/22 18:15	1
o-Terphenyl (Surr)	113		70 - 130			05/10/22 08:18	05/10/22 18:15	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3010		24.8	mg/Kg			05/12/22 14:38	5

Client Sample ID: BH-105 Lab Sample ID: 890-2290-14 Date Collected: 05/06/22 00:00 Matrix: Solid

Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/14/22 12:37	05/14/22 20:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:15	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/14/22 12:37	05/14/22 20:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/14/22 12:37	05/14/22 20:15	1
1,4-Difluorobenzene (Surr)	92		70 - 130			05/14/22 12:37	05/14/22 20:15	1
Method: Total BTEX - Total BTI	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/16/22 16:56	1
- -			0.00399	mg/Kg			05/16/22 16:56	1
ି Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)				Prepared		
- -	ge Organics (DR		0.00399 RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	05/16/22 16:56 Analyzed 05/11/22 10:27	Dil Fac
Method: 8015 NM - Diesel Rang Analyte Total TPH	ge Organics (DR Result 176	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra	ge Organics (DR Result 176 nge Organics (D	O) (GC) Qualifier	RL	Unit	<u>D</u>	<u> </u>	Analyzed 05/11/22 10:27	Dil Fac
Method: 8015 NM - Diesel Rang Analyte Total TPH	ge Organics (DR Result 176 nge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9	Unit mg/Kg		Prepared Prepared 05/10/22 08:18	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10	ge Organics (DR Result 176 nge Organics (D Result	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9	Unit mg/Kg		Prepared	Analyzed 05/11/22 10:27 Analyzed	Dil Fac
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over	ge Organics (DR Result 176 nge Organics (D Result <49.9	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 05/10/22 08:18	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:02	Dil Fac Dil Fac
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DR Result 176 nge Organics (D Result <49.9	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 05/10/22 08:18	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:02	Dil Fac Dil Fac
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte	ge Organics (DR Result 176 nge Organics (D Result <49.9 54.4	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/10/22 08:18 05/10/22 08:18	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:02 05/10/22 20:02	Dil Fac Dil Fac 1 1
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DR Result 176 nge Organics (D Result <49.9 54.4	O) (GC) Qualifier RO) (GC) Qualifier U	RL 49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/10/22 08:18 05/10/22 08:18	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:02 05/10/22 20:02	Dil Fac Dil Fac 1 1 1
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	ge Organics (DR Result 176 nge Organics (D Result <49.9 54.4 122	O) (GC) Qualifier RO) (GC) Qualifier U	RL 49.9 RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/10/22 08:18 05/10/22 08:18	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:02 05/10/22 20:02 05/10/22 20:02	Dil Fac Dil Fac 1 1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-105

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	954	5.01	mg/Kg			05/12/22 15:03	1

Client Sample ID: BH-106

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 REMOVED FROM ANALYSIS TABLE

Result Qualifier

<0.800 U

Lab Sample ID: 890-2290-15

Analyzed

05/16/22 16:56

Lab Sample ID: 890-2290-14

Matrix: Solid

Sample Depth: 5

Total BTEX

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.400	U	0.400	mg/Kg		05/14/22 12:37	05/14/22 22:04	200
Toluene	<0.400	U	0.400	mg/Kg		05/14/22 12:37	05/14/22 22:04	200
Ethylbenzene	<0.400	U	0.400	mg/Kg		05/14/22 12:37	05/14/22 22:04	200
m-Xylene & p-Xylene	<0.800	U	0.800	mg/Kg		05/14/22 12:37	05/14/22 22:04	200
o-Xylene	<0.400	U	0.400	mg/Kg		05/14/22 12:37	05/14/22 22:04	200
Xylenes, Total	<0.800	U	0.800	mg/Kg		05/14/22 12:37	05/14/22 22:04	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			05/14/22 12:37	05/14/22 22:04	200
1,4-Difluorobenzene (Surr)	94		70 - 130			05/14/22 12:37	05/14/22 22:04	200

Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9690		249	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 C10	412		249	ma/Ka		05/10/22 08:18	05/10/22 18:37	

0.800

Unit

mg/Kg

Prepared

4 Ohlawaashawa (O)	110		70 400		05/40/00 00:40	05/40/00 40:07	
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	1670		249	mg/Kg	05/10/22 08:18	05/10/22 18:37	5
Diesel Range Organics (Over C10-C28)	7610		249	mg/Kg	05/10/22 08:18	05/10/22 18:37	5
C6-C10	412		249	mg/kg	05/10/22 06:16	05/10/22 16:37	5

Mothod: 200 0 Anions Ion Chromatograp	hy Soluble				
o-Terphenyl (Surr)	105	70 - 130	05/10/22 08:18	05/10/22 18:37	5
1-Chlorooctane (Surr)	110	70 - 130	05/10/22 08:18	05/10/22 18:37	5

<u>ا</u> ا	wethou. 300.0 - Amons, fon Chron	ialograpily -	Soluble						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	736		24.9	mg/Kg			05/12/22 16:27	5

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14

Dil Fac

Lab Sample ID: 890-2290-16

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-107

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:42	
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:42	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:42	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/14/22 12:37	05/14/22 20:42	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:42	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/14/22 12:37	05/14/22 20:42	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	90		70 - 130			05/14/22 12:37	05/14/22 20:42	
1,4-Difluorobenzene (Surr)	98		70 - 130			05/14/22 12:37	05/14/22 20:42	
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/16/22 16:56	
Analyte Total TPH	Result	Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/11/22 10:27	Dil Fa
Total IPH	330		30.0	mg/Kg			03/11/22 10.27	
Method: 8015B NM - Diesel Ra	• •							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
C6-C10	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 19:41	
Diesel Range Organics (Over C10-C28)	169		50.0	mg/Kg		05/10/22 08:18	05/10/22 19:41	
Oll Range Organics (Over C28-C36)	169		50.0	mg/Kg		05/10/22 08:18	05/10/22 19:41	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane (Surr)	113		70 - 130			05/10/22 08:18	05/10/22 19:41	
o-Terphenyl (Surr)	99		70 - 130			05/10/22 08:18	05/10/22 19:41	
Method: 300.0 - Anions, Ion Ch								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	1530		24.9	mg/Kg	=		05/12/22 16:35	

Client Sample ID: BH-108 Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2290-17

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.398	U	0.398	mg/Kg		05/14/22 12:37	05/14/22 22:31	200
Toluene	<0.398	U	0.398	mg/Kg		05/14/22 12:37	05/14/22 22:31	200
Ethylbenzene	<0.398	U	0.398	mg/Kg		05/14/22 12:37	05/14/22 22:31	200
m-Xylene & p-Xylene	<0.795	U	0.795	mg/Kg		05/14/22 12:37	05/14/22 22:31	200
o-Xylene	<0.398	U	0.398	mg/Kg		05/14/22 12:37	05/14/22 22:31	200
Xylenes, Total	<0.795	U	0.795	mg/Kg		05/14/22 12:37	05/14/22 22:31	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/14/22 12:37	05/14/22 22:31	200

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Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-108

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 Sample Depth: 5 REMOVED FROM ANALYSIS TABLE

1120

Lab Sample ID: 890-2290-17

05/12/22 16:44

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130			05/14/22 12:37	05/14/22 22:31	20
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.795	U	0.795	mg/Kg			05/16/22 16:56	
Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	8980	-	250	mg/Kg			05/11/22 10:27	-
Method: 8015B NM - Diesel Ra	inge Organics (DI	RO) (GC)						
Method: 8015B NM - Diesel Ra	inge Organics (DI	RO) (GC)						
Method: 8015B NM - Diesel Ra Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte C6-C10	Result <250	Qualifier	250	mg/Kg	<u>D</u>	05/10/22 08:18	05/10/22 18:58	
Analyte C6-C10 Diesel Range Organics (Over	Result	Qualifier			<u>D</u>			
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result <250	Qualifier	250	mg/Kg	<u>D</u>	05/10/22 08:18	05/10/22 18:58	Ę
Analyte C6-C10 Diesel Range Organics (Over C10-C28)	Result <250 7670	Qualifier	250 250	mg/Kg mg/Kg	<u> </u>	05/10/22 08:18 05/10/22 08:18	05/10/22 18:58 05/10/22 18:58	Dil Fac
Analyte C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	Result <250 7670	Qualifier U	250 250	mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18	05/10/22 18:58 05/10/22 18:58	
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <250 7670 1310	Qualifier U	250 250 250	mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18	05/10/22 18:58 05/10/22 18:58 05/10/22 18:58	5
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result <250 7670 1310 %Recovery	Qualifier U	250 250 250 Limits	mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 Prepared	05/10/22 18:58 05/10/22 18:58 05/10/22 18:58 Analyzed	Dil Fac
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	Result <250 7670 1310 %Recovery 100 98	Qualifier U Qualifier	250 250 250 Limits 70 - 130	mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 Prepared 05/10/22 08:18	05/10/22 18:58 05/10/22 18:58 05/10/22 18:58 05/10/22 18:58 Analyzed 05/10/22 18:58	Dil Fac

Client Sample ID: BH-109

Date Collected: 05/06/22 00:00

Lab Sample ID: 890-2290-18

Matrix: Solid

25.1

mg/Kg

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 21:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 21:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 21:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/14/22 12:37	05/14/22 21:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 21:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/14/22 12:37	05/14/22 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			05/14/22 12:37	05/14/22 21:09	1
1,4-Difluorobenzene (Surr)	105		70 - 130			05/14/22 12:37	05/14/22 21:09	1
- Method: Total BTEX - Total B	ΓEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/16/22 16:56	1
- Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-109

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 20:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 20:24	,
Oll Range Organics (Over C28-C36)	86.4		49.9	mg/Kg		05/10/22 08:18	05/10/22 20:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)			70 - 130			05/10/22 08:18	05/10/22 20:24	
o-Terphenyl (Surr)	109		70 - 130			05/10/22 08:18	05/10/22 20:24	1
Method: 300.0 - Anions, Ion C	hromatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	946		25.0	mg/Kg			05/12/22 15:14	5

Client Sample ID: BH-110

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2290-19

Lab Sample ID: 890-2290-18

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.402	U	0.402	mg/Kg		05/14/22 12:37	05/14/22 22:58	200
Toluene	<0.402	U	0.402	mg/Kg		05/14/22 12:37	05/14/22 22:58	200
Ethylbenzene	<0.402	U	0.402	mg/Kg		05/14/22 12:37	05/14/22 22:58	200
m-Xylene & p-Xylene	<0.805	U	0.805	mg/Kg		05/14/22 12:37	05/14/22 22:58	200
o-Xylene	<0.402	U	0.402	mg/Kg		05/14/22 12:37	05/14/22 22:58	200
Xylenes, Total	<0.805	U	0.805	mg/Kg		05/14/22 12:37	05/14/22 22:58	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130			05/14/22 12:37	05/14/22 22:58	200
1,4-Difluorobenzene (Surr)	96		70 - 130			05/14/22 12:37	05/14/22 22:58	200
- Method: Total BTEX - Total BTE	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.805	U	0.805	mg/Kg			05/16/22 16:56	1
- -								
Method: 8015 NM - Diesel Rang	• • •	, , ,						
Analyte	Posult	O 1161						
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
·	1660	Qualifier	50.0 FL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/11/22 10:27	Dil Fac
Total TPH	1660	<u> </u>			<u>D</u>	Prepared		Dil Fac
Total TPH Method: 8015B NM - Diesel Rai	1660 nge Organics (D	<u> </u>			D	Prepared Prepared		Dil Fac
Total TPH Method: 8015B NM - Diesel Rai Analyte	1660 nge Organics (D	RO) (GC) Qualifier	50.0	mg/Kg			05/11/22 10:27	1
Total TPH Method: 8015B NM - Diesel Rai Analyte	1660 nge Organics (D Result	RO) (GC) Qualifier	50.0	mg/Kg		Prepared	05/11/22 10:27 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10	nge Organics (Di Result <50.0	RO) (GC) Qualifier	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/10/22 08:18 05/10/22 08:18	05/11/22 10:27 Analyzed 05/11/22 07:03 05/11/22 07:03	Dil Fac
Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10 Diesel Range Organics (Over	nge Organics (Di Result <50.0	RO) (GC) Qualifier	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 05/10/22 08:18	05/11/22 10:27 Analyzed 05/11/22 07:03	Dil Fac
Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	1660 nge Organics (Di Result <50.0 1400	RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/10/22 08:18 05/10/22 08:18	05/11/22 10:27 Analyzed 05/11/22 07:03 05/11/22 07:03	Dil Fac
Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	1660 nge Organics (Di Result <50.0 1400 263	RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/10/22 08:18 05/10/22 08:18	05/11/22 10:27 Analyzed 05/11/22 07:03 05/11/22 07:03	Dil Fac

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Released to Imaging: 9/1/2023 3:11:42 PM

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-110

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2290-19

Matrix: Solid

Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	577		25.2	mg/Kg			05/12/22 16:52	5	

Client Sample ID: BH-111

Date Collected: 05/06/22 00:00

Lab Sample ID: 890-2290-20

Matrix: Solid

Date Collected: 05/06/22 00:00
Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 21:36	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 21:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 21:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/14/22 12:37	05/14/22 21:36	
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 21:36	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/14/22 12:37	05/14/22 21:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/14/22 12:37	05/14/22 21:36	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/14/22 12:37	05/14/22 21:36	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Ran	• •							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.3		49.9	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Ra	inge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9		49.9	mg/Kg		05/10/22 08:18	05/10/22 20:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 20:45	1
Oll Range Organics (Over C28-C36)	64.3		49.9	mg/Kg		05/10/22 08:18	05/10/22 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			05/10/22 08:18	05/10/22 20:45	1
o-Terphenyl (Surr)	94		70 - 130			05/10/22 08:18	05/10/22 20:45	1
Method: 300.0 - Anions, Ion C	hromatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			25.1	mg/Kg			05/12/22 15:24	5

Lab Sample ID: 890-2290-21

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-112

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/15/22 00:44	
Toluene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/15/22 00:44	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/15/22 00:44	
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/14/22 12:37	05/15/22 00:44	
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/15/22 00:44	
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/14/22 12:37	05/15/22 00:44	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	87		70 - 130			05/14/22 12:37	05/15/22 00:44	
1,4-Difluorobenzene (Surr)	92		70 - 130			05/14/22 12:37	05/15/22 00:44	
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/16/22 16:56	
: Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Analyte	•		RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/11/22 10:27	
	Result 362	Qualifier			<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ranç	Result 362 ge Organics (D	Qualifier			<u>D</u>	Prepared Prepared		
Analyte Total TPH	Result 362 ge Organics (D	Qualifier RO) (GC) Qualifier	50.0	mg/Kg			05/11/22 10:27	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over	Result 362 ge Organics (Dige Result	Qualifier RO) (GC) Qualifier	50.0	mg/Kg		Prepared	05/11/22 10:27 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over	Result 362 ge Organics (Di Result 362	Qualifier RO) (GC) Qualifier *1	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 05/09/22 16:33	05/11/22 10:27 Analyzed 05/10/22 19:05	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 362	Qualifier RO) (GC) Qualifier *1 U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33	05/11/22 10:27 Analyzed 05/10/22 19:05 05/10/22 19:05	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28)	Result 362 ge Organics (Di Result 362 <50.0	Qualifier RO) (GC) Qualifier *1 U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33	05/11/22 10:27 Analyzed 05/10/22 19:05 05/10/22 19:05	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorocctane (Surr)	Result 362	Qualifier RO) (GC) Qualifier *1 U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33 05/09/22 16:33 Prepared	05/11/22 10:27 Analyzed 05/10/22 19:05 05/10/22 19:05 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 362	Qualifier RO) (GC) Qualifier *1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33 05/09/22 16:33 Prepared 05/09/22 16:33	Analyzed 05/10/22 19:05 05/10/22 19:05 05/10/22 19:05 Analyzed 05/10/22 19:05	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Result 362	Qualifier RO) (GC) Qualifier *1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33 05/09/22 16:33 Prepared 05/09/22 16:33	Analyzed 05/10/22 19:05 05/10/22 19:05 05/10/22 19:05 Analyzed 05/10/22 19:05	Dil Fa

Client Sample ID: BH-113

Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/15/22 01:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/15/22 01:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/15/22 01:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/15/22 01:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/15/22 01:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/15/22 01:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			05/14/22 12:37	05/15/22 01:10	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/14/22 12:37	05/15/22 01:10	1

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Matrix: Solid

Lab Sample ID: 890-2290-22

3

7

9

12

13

no Ganobaa

Lab Sample ID: 890-2290-22

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-113

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U *1	50.0	mg/Kg		05/09/22 16:33	05/10/22 19:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 19:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 19:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			05/09/22 16:33	05/10/22 19:27	1
o-Terphenyl (Surr)	108		70 - 130			05/09/22 16:33	05/10/22 19:27	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	942		4.97	mg/Kg			05/12/22 13:09	

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			B===:	Percent Surrog
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-2290-1	BH-92	98	103	
90-2290-2	BH-93	96	100	
90-2290-3	BH-94	99	102	
90-2290-4	BH-95	99	102	
90-2290-5	BH-96	107	102	
90-2290-6	BH-97	106	101	
90-2290-7	BH-98	103	100	
90-2290-8	BH-99	113	103	
90-2290-9	BH-100	109	99	
90-2290-10	BH-101	105	101	
90-2290-10 MS	BH-101	103	108	
90-2290-10 MSD	BH-101	87	96	
90-2290-11	BH-102	103	103	
90-2290-12	BH-103	108	104	
90-2290-13	BH-104	106	103	
90-2290-14	BH-105	105	92	
90-2290-15	BH-106	90	94	
90-2290-16	BH-107	90	98	
90-2290-17	BH-108	99	98	
90-2290-18	BH-109	110	105	
90-2290-19	BH-110	74	96	
90-2290-19	BH-111	100	100	
90-2290-21	BH-112	87	92	
90-2290-22	BH-113	107	102	
.CS 880-25563/1-A	Lab Control Sample	95	103	
.CS 880-25564/1-A	Lab Control Sample	101	100	
CSD 880-25563/2-A	Lab Control Sample Dup	99	105	
.CSD 880-25564/2-A	Lab Control Sample Dup	96	107	
MB 880-25563/5-A	Method Blank	77	94	
MB 880-25564/5-A	Method Blank	77	92	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-14554-A-1-C MS	Matrix Spike	109	108	
880-14554-A-1-D MSD	Matrix Spike Duplicate	94	94	
890-2290-1	BH-92	119	108	
890-2290-2	BH-93	122	113	
890-2290-3	BH-94	114	100	
890-2290-4	BH-95	104	93	
890-2290-5	BH-96	107	95	
890-2290-6	BH-97	108	99	
890-2290-7	BH-98	117	108	

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2290-8	BH-99	107	96	
390-2290-9	BH-100	106	96	
890-2290-10	BH-101	105	103	
890-2290-10 MS	BH-101	107	92	
890-2290-10 MSD	BH-101	121	105	
390-2290-11	BH-102	124	118	
390-2290-12	BH-103	105	97	
890-2290-13	BH-104	116	113	
890-2290-14	BH-105	108	96	
390-2290-15	BH-106	110	105	
390-2290-16	BH-107	113	99	
390-2290-17	BH-108	100	98	
890-2290-18	BH-109	117	109	
390-2290-19	BH-110	111	106	
390-2290-20	BH-111	103	94	
390-2290-21	BH-112	116	123	
390-2290-22	BH-113	101	108	
CS 880-25199/2-A	Lab Control Sample	123	124	
CS 880-25221/2-A	Lab Control Sample	104	93	
CSD 880-25199/3-A	Lab Control Sample Dup	129	132 S1+	
_CSD 880-25221/3-A	Lab Control Sample Dup	124	109	
/IB 880-25199/1-A	Method Blank	99	103	
MB 880-25221/1-A	Method Blank	110	117	
Surrogate Legend				

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OTPH = o-Terphenyl (Surr)

QC Sample Results

Job ID: 890-2290-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25563/5-A

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25563

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 07:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 07:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 07:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 07:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 07:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 07:45	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	05/14/22 12:33	05/15/22 07:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/14/22 12:33	05/15/22 07:45	1

Lab Sample ID: LCS 880-25563/1-A

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25563

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1040		mg/Kg		104	70 - 130	
Toluene	0.100	0.09693		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09485		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1880		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09337		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	95		70 - 130		
1,4-Difluorobenzene (Surr)	103		70 - 130		

Lab Sample ID: LCSD 880-25563/2-A

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25563

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1174		mg/Kg		117	70 - 130	12	35
Toluene	0.100	0.1064		mg/Kg		106	70 - 130	9	35
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2038		mg/Kg		102	70 - 130	8	35
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-25564/5-A

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25564

MB MB Result Qualifier Unit Dil Fac Analyte RL Prepared Analyzed <0.00200 U 0.00200 05/14/22 12:37 05/14/22 18:01 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 05/14/22 12:37 05/14/22 18:01

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-25564/5-A **Matrix: Solid**

Analysis Batch: 25561

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25564

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/14/22 12:37	05/14/22 18:01	1

MB MB

MR MR

	Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	77		70 - 130	05/14/22 1	2:37 05/14/22 18	:01 1
ı	1,4-Difluorobenzene (Surr)	92		70 - 130	05/14/22 1	2:37 05/14/22 18	:01 1

Lab Sample ID: LCS 880-25564/1-A

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25564

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1104		mg/Kg	_	110	70 - 130	
Toluene	0.100	0.1137		mg/Kg		114	70 - 130	
Ethylbenzene	0.100	0.1151		mg/Kg		115	70 - 130	
m-Xylene & p-Xylene	0.200	0.2290		mg/Kg		115	70 - 130	
o-Xylene	0.100	0.1106		mg/Kg		111	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-25564/2-A

Matrix: Solid

Analysis Batch: 25561

0114	0	ID. Lak	0	0	D
Cilent	Sample	ID: Lab	Control	Sample	Dub

Prep Type: Total/NA

Prep Batch: 25564

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1232	mg/Kg		123	70 - 130	11	35
Toluene	0.100	0.1126	mg/Kg		113	70 - 130	1	35
Ethylbenzene	0.100	0.1066	mg/Kg		107	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2139	mg/Kg		107	70 - 130	7	35
o-Xylene	0.100	0.1122	mg/Kg		112	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-2290-10 MS

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: BH-101

Prep Type: Total/NA

Prep Batch: 25564

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.1011		mg/Kg		100	70 - 130	
Toluene	<0.00199	U	0.101	0.09136		mg/Kg		91	70 - 130	
Ethylbenzene	<0.00199	U	0.101	0.08965		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1797		mg/Kg		89	70 - 130	

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2290-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2290-10 MS Client Sample ID: BH-101 **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 25561 Prep Batch: 25564

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	<0.00199	U	0.101	0.08784		mg/Kg		87	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-2290-10 MSD Client Sample ID: BH-101 **Matrix: Solid**

Prep Type: Total/NA Prep Batch: 25564 **Analysis Batch: 25561**

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00199	U	0.100	0.08471		mg/Kg		85	70 - 130	18	35	
Toluene	< 0.00199	U	0.100	0.08214		mg/Kg		82	70 - 130	11	35	
Ethylbenzene	<0.00199	U	0.100	0.08185		mg/Kg		82	70 - 130	9	35	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1660		mg/Kg		83	70 - 130	8	35	
o-Xylene	<0.00199	U	0.100	0.07935		mg/Kg		79	70 - 130	10	35	

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 87 70 - 130 1,4-Difluorobenzene (Surr) 96 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-25199/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

C10-C28)

Analysis Batch: 25231

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 11:21	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 11:21	1

C10-C28) 50.0 OII Range Organics (Over C28-C36) <50.0 U mg/Kg 05/09/22 16:33 05/10/22 11:21 MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	05/09/22 16:33	05/10/22 11:21	1
o-Terphenyl (Surr)	103		70 - 130	05/09/22 16:33	05/10/22 11:21	1

Lab Sample ID: LCS 880-25199/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 25231 Prep Batch: 25199

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C6-C10	1000	858.3		mg/Kg	_	86	70 - 130	
Diesel Range Organics (Over	1000	1226		mg/Kg		123	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	123		70 - 130

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Prep Batch: 25199

Job ID: 890-2290-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-25199/2-A

Matrix: Solid

Analysis Batch: 25231

Prep Type: Total/NA

Prep Batch: 25199

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl (Surr) 124 70 - 130

Lab Sample ID: LCSD 880-25199/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 25231

Prep Type: Total/NA

70 - 130

130

Prep Batch: 25199

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LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit C6-C10 1000 1077 mg/Kg 108 70 - 130 23 20

1304

mg/Kg

1000

Diesel Range Organics (Over C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 129 70 - 130 1-Chlorooctane (Surr) o-Terphenyl (Surr) 132 S1+ 70 - 130

Lab Sample ID: 880-14554-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 25231

Prep Type: Total/NA

Prep Batch: 25199

Spike MS MS %Rec Sample Sample Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec C6-C10 <50.0 U *1 1000 1064 106 70 - 130 mg/Kg <50.0 U 1000 109 Diesel Range Organics (Over 1112 mg/Kg 70 - 130

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane (Surr) 70 - 130 109 o-Terphenyl (Surr) 108 70 - 130

Lab Sample ID: 880-14554-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 25231

Prep Type: Total/NA

Prep Batch: 25199

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit C6-C10 <50.0 U *1 998 90 20 899.1 mg/Kg 70 - 130 17 998 969.3 95 Diesel Range Organics (Over <50.0 U mg/Kg 70 - 13014 20

C10-C28)

MSD MSD

%Recovery Qualifier Limits Surrogate 1-Chlorooctane (Surr) 94 70 - 130 o-Terphenyl (Surr) 94 70 - 130

Lab Sample ID: MB 880-25221/1-A

Matrix: Solid

Analysis Batch: 25235

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 25221

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac C6-C10 <50.0 U 50.0 mg/Kg 05/10/22 08:18 05/10/22 11:44 50.0 05/10/22 08:18 Diesel Range Organics (Over <50.0 U 05/10/22 11:44 mg/Kg C10-C28)

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-25221/1-A

Matrix: Solid

Analysis Batch: 25235

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25221

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 11:44	1		

мв мв

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	05/10/22 08:18	05/10/22 11:44	1
o-Terphenyl (Surr)	117		70 - 130	05/10/22 08:18	05/10/22 11:44	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-25221/2-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25235 Prep Batch: 25221 Spike LCS LCS

Added Analyte Result Qualifier Unit %Rec Limits C6-C10 1000 1043 mg/Kg 104 70 - 130 Diesel Range Organics (Over 1000 993.9 mg/Kg 99 70 - 130 C10-C28)

Lab Sample ID: LCSD 880-25221/3-A

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 25235**

Prep Batch: 25221

		Spike	LCSD	LCSD				%Rec		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C6-C10		 1000	1171		mg/Kg		117	70 - 130	12	20
Diesel Range Org	anics (Over	1000	1177		mg/Kg		118	70 - 130	17	20
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane (Surr) 124 70 - 130 70 - 130 o-Terphenyl (Surr) 109

Lab Sample ID: 890-2290-10 MS Client Sample ID: BH-101

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 25235**

Prep Batch: 25221 Comple Comple Chiles

	Sample	Sample	Spike	IVIO	IVIO				70Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C6-C10	<49.9	U F1 F2	1000	1218		mg/Kg		119	70 - 130	 _
Diesel Range Organics (Over	<49.9	U	1000	983.9		mg/Kg		98	70 - 130	

C10-C28)

	Wis	MO	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	92		70 - 130

Client Sample ID: BH-101

15

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: BH-92

Client Sample ID: BH-92

Prep Type: Soluble

Prep Type: Soluble

Job ID: 890-2290-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

<49.9 U

MB MB

Lab Sample ID: 890-2290-10 MSD

Analysis Batch: 25235

Matrix: Solid Prep Type: Total/NA Prep Batch: 25221 Sample Sample MSD MSD RPD Spike RPD Limit Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits C6-C10 <49.9 U F1 F2 998 1540 F1 F2 mg/Kg 151 70 - 130 23 20

1141

mg/Kg

114

70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

998

Diesel Range Organics (Over C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane (Surr) 121 o-Terphenyl (Surr) 105 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25289/1-A

Matrix: Solid

Analysis Batch: 25351

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 5 00 Chloride <5.00 U mg/Kg 05/12/22 06:55

Lab Sample ID: LCS 880-25289/2-A

Matrix: Solid

Analysis Batch: 25351

LCS LCS Spike %Rec Added Analyte Result Qualifier %Rec Limits Unit Chloride 250 270.0 mg/Kg 108 90 - 110

Lab Sample ID: LCSD 880-25289/3-A

Matrix: Solid

Analysis Batch: 25351

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 269.9 mg/Kg 108

Lab Sample ID: 890-2290-1 MS

Matrix: Solid

Analysis Batch: 25351

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 4070 F1 2530 6956 F1 114 90 - 110 ma/Ka

Lab Sample ID: 890-2290-1 MSD

Matrix: Solid

Analysis Batch: 25351

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 4070 F1 2530 6972 F1 115 90 - 110 20 mg/Kg

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Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2290-11 MS Client Sample ID: BH-102 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25351

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2550		1260	3909		mg/Kg		107	90 - 110	

Lab Sample ID: 890-2290-11 MSD Client Sample ID: BH-102 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25351

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	2550		1260	3911		mg/Kg		107	90 - 110	0	20

Lab Sample ID: MB 880-25414/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25429

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 05/12/22 11:56 mg/Kg

Lab Sample ID: LCS 880-25414/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25429

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	245.3		mg/Kg	_	98	90 - 110	

Lab Sample ID: LCSD 880-25414/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25429

	Spike	LCGD	LUGD				/ortec		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	245.1		mg/Kg		98	90 - 110	0	20	

Lab Sample ID: 880-14738-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25429

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	208		2/18	438.3		ma/Ka	_		90 110	

Lab Sample ID: 880-14738-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25429

7 manyono Batom 20 120												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	208		248	435.7		mg/Kg		92	90 - 110	1	20	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2290-1

SDG: Lea County NM

GC VOA

Analysis Batch: 25561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-1	BH-92	Total/NA	Solid	8021B	25563
890-2290-2	BH-93	Total/NA	Solid	8021B	25563
890-2290-3	BH-94	Total/NA	Solid	8021B	25563
890-2290-4	BH-95	Total/NA	Solid	8021B	25563
890-2290-5	BH-96	Total/NA	Solid	8021B	25563
890-2290-6	BH-97	Total/NA	Solid	8021B	25563
890-2290-7	BH-98	Total/NA	Solid	8021B	25563
890-2290-8	BH-99	Total/NA	Solid	8021B	25563
890-2290-9	BH-100	Total/NA	Solid	8021B	25563
890-2290-10	BH-101	Total/NA	Solid	8021B	25564
890-2290-11	BH-102	Total/NA	Solid	8021B	25564
890-2290-12	BH-103	Total/NA	Solid	8021B	25564
890-2290-13	BH-104	Total/NA	Solid	8021B	25564
890-2290-14	BH-105	Total/NA	Solid	8021B	25564
890-2290-15	BH-106	Total/NA	Solid	8021B	25564
890-2290-16	BH-107	Total/NA	Solid	8021B	25564
890-2290-17	BH-108	Total/NA	Solid	8021B	25564
890-2290-18	BH-109	Total/NA	Solid	8021B	25564
890-2290-19	BH-110	Total/NA	Solid	8021B	25564
890-2290-20	BH-111	Total/NA	Solid	8021B	25564
890-2290-21	BH-112	Total/NA	Solid	8021B	25564
890-2290-22	BH-113	Total/NA	Solid	8021B	25564
MB 880-25563/5-A	Method Blank	Total/NA	Solid	8021B	25563
MB 880-25564/5-A	Method Blank	Total/NA	Solid	8021B	25564
LCS 880-25563/1-A	Lab Control Sample	Total/NA	Solid	8021B	25563
LCS 880-25564/1-A	Lab Control Sample	Total/NA	Solid	8021B	25564
LCSD 880-25563/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25563
LCSD 880-25564/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25564
890-2290-10 MS	BH-101	Total/NA	Solid	8021B	25564
890-2290-10 MSD	BH-101	Total/NA	Solid	8021B	25564

Prep Batch: 25563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-1	BH-92	Total/NA	Solid	5035	
890-2290-2	BH-93	Total/NA	Solid	5035	
890-2290-3	BH-94	Total/NA	Solid	5035	
890-2290-4	BH-95	Total/NA	Solid	5035	
890-2290-5	BH-96	Total/NA	Solid	5035	
890-2290-6	BH-97	Total/NA	Solid	5035	
890-2290-7	BH-98	Total/NA	Solid	5035	
890-2290-8	BH-99	Total/NA	Solid	5035	
890-2290-9	BH-100	Total/NA	Solid	5035	
MB 880-25563/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25563/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25563/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 25564

Lab Sample ID 890-2290-10	Client Sample ID BH-101	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
890-2290-11	BH-102	Total/NA	Solid	5035	
890-2290-12	BH-103	Total/NA	Solid	5035	

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Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 25564 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-13	BH-104	Total/NA	Solid	5035	
890-2290-14	BH-105	Total/NA	Solid	5035	
890-2290-15	BH-106	Total/NA	Solid	5035	
890-2290-16	BH-107	Total/NA	Solid	5035	
890-2290-17	BH-108	Total/NA	Solid	5035	
890-2290-18	BH-109	Total/NA	Solid	5035	
890-2290-19	BH-110	Total/NA	Solid	5035	
890-2290-20	BH-111	Total/NA	Solid	5035	
890-2290-21	BH-112	Total/NA	Solid	5035	
890-2290-22	BH-113	Total/NA	Solid	5035	
MB 880-25564/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25564/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25564/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2290-10 MS	BH-101	Total/NA	Solid	5035	
890-2290-10 MSD	BH-101	Total/NA	Solid	5035	

Analysis Batch: 25658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2290-1	BH-92	Total/NA	Solid	Total BTEX	
890-2290-2	BH-93	Total/NA	Solid	Total BTEX	
890-2290-3	BH-94	Total/NA	Solid	Total BTEX	
890-2290-4	BH-95	Total/NA	Solid	Total BTEX	
890-2290-5	BH-96	Total/NA	Solid	Total BTEX	
890-2290-6	BH-97	Total/NA	Solid	Total BTEX	
890-2290-7	BH-98	Total/NA	Solid	Total BTEX	
890-2290-8	BH-99	Total/NA	Solid	Total BTEX	
890-2290-9	BH-100	Total/NA	Solid	Total BTEX	
890-2290-10	BH-101	Total/NA	Solid	Total BTEX	
890-2290-11	BH-102	Total/NA	Solid	Total BTEX	
890-2290-12	BH-103	Total/NA	Solid	Total BTEX	
890-2290-13	BH-104	Total/NA	Solid	Total BTEX	
890-2290-14	BH-105	Total/NA	Solid	Total BTEX	
890-2290-15	BH-106	Total/NA	Solid	Total BTEX	
890-2290-16	BH-107	Total/NA	Solid	Total BTEX	
890-2290-17	BH-108	Total/NA	Solid	Total BTEX	
890-2290-18	BH-109	Total/NA	Solid	Total BTEX	
890-2290-19	BH-110	Total/NA	Solid	Total BTEX	
890-2290-20	BH-111	Total/NA	Solid	Total BTEX	
890-2290-21	BH-112	Total/NA	Solid	Total BTEX	
890-2290-22	BH-113	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 25199

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-21	BH-112	Total/NA	Solid	8015NM Prep	
890-2290-22	BH-113	Total/NA	Solid	8015NM Prep	
MB 880-25199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14554-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 25199 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14554-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 25221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-1	BH-92	Total/NA	Solid	8015NM Prep	
890-2290-2	BH-93	Total/NA	Solid	8015NM Prep	
890-2290-3	BH-94	Total/NA	Solid	8015NM Prep	
890-2290-4	BH-95	Total/NA	Solid	8015NM Prep	
890-2290-5	BH-96	Total/NA	Solid	8015NM Prep	
890-2290-6	BH-97	Total/NA	Solid	8015NM Prep	
890-2290-7	BH-98	Total/NA	Solid	8015NM Prep	
890-2290-8	BH-99	Total/NA	Solid	8015NM Prep	
890-2290-9	BH-100	Total/NA	Solid	8015NM Prep	
890-2290-10	BH-101	Total/NA	Solid	8015NM Prep	
890-2290-11	BH-102	Total/NA	Solid	8015NM Prep	
890-2290-12	BH-103	Total/NA	Solid	8015NM Prep	
890-2290-13	BH-104	Total/NA	Solid	8015NM Prep	
890-2290-14	BH-105	Total/NA	Solid	8015NM Prep	
890-2290-15	BH-106	Total/NA	Solid	8015NM Prep	
890-2290-16	BH-107	Total/NA	Solid	8015NM Prep	
890-2290-17	BH-108	Total/NA	Solid	8015NM Prep	
890-2290-18	BH-109	Total/NA	Solid	8015NM Prep	
890-2290-19	BH-110	Total/NA	Solid	8015NM Prep	
890-2290-20	BH-111	Total/NA	Solid	8015NM Prep	
MB 880-25221/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25221/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25221/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2290-10 MS	BH-101	Total/NA	Solid	8015NM Prep	
890-2290-10 MSD	BH-101	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-21	BH-112	Total/NA	Solid	8015B NM	25199
890-2290-22	BH-113	Total/NA	Solid	8015B NM	25199
MB 880-25199/1-A	Method Blank	Total/NA	Solid	8015B NM	25199
LCS 880-25199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25199
LCSD 880-25199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25199
880-14554-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	25199
880-14554-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25199

Analysis Batch: 25235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-1	BH-92	Total/NA	Solid	8015B NM	25221
890-2290-2	BH-93	Total/NA	Solid	8015B NM	25221
890-2290-3	BH-94	Total/NA	Solid	8015B NM	25221
890-2290-4	BH-95	Total/NA	Solid	8015B NM	25221
890-2290-5	BH-96	Total/NA	Solid	8015B NM	25221
890-2290-6	BH-97	Total/NA	Solid	8015B NM	25221
890-2290-7	BH-98	Total/NA	Solid	8015B NM	25221
890-2290-8	BH-99	Total/NA	Solid	8015B NM	25221
890-2290-9	BH-100	Total/NA	Solid	8015B NM	25221

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Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 25235 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-10	BH-101	Total/NA	Solid	8015B NM	25221
890-2290-11	BH-102	Total/NA	Solid	8015B NM	25221
890-2290-12	BH-103	Total/NA	Solid	8015B NM	25221
890-2290-13	BH-104	Total/NA	Solid	8015B NM	25221
890-2290-14	BH-105	Total/NA	Solid	8015B NM	25221
890-2290-15	BH-106	Total/NA	Solid	8015B NM	25221
890-2290-16	BH-107	Total/NA	Solid	8015B NM	25221
890-2290-17	BH-108	Total/NA	Solid	8015B NM	25221
890-2290-18	BH-109	Total/NA	Solid	8015B NM	25221
890-2290-19	BH-110	Total/NA	Solid	8015B NM	25221
890-2290-20	BH-111	Total/NA	Solid	8015B NM	25221
MB 880-25221/1-A	Method Blank	Total/NA	Solid	8015B NM	25221
LCS 880-25221/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25221
LCSD 880-25221/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25221
890-2290-10 MS	BH-101	Total/NA	Solid	8015B NM	25221
890-2290-10 MSD	BH-101	Total/NA	Solid	8015B NM	25221

Analysis Batch: 25343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2290-1	BH-92	Total/NA	Solid	8015 NM	
890-2290-2	BH-93	Total/NA	Solid	8015 NM	
890-2290-3	BH-94	Total/NA	Solid	8015 NM	
890-2290-4	BH-95	Total/NA	Solid	8015 NM	
890-2290-5	BH-96	Total/NA	Solid	8015 NM	
890-2290-6	BH-97	Total/NA	Solid	8015 NM	
890-2290-7	BH-98	Total/NA	Solid	8015 NM	
890-2290-8	BH-99	Total/NA	Solid	8015 NM	
890-2290-9	BH-100	Total/NA	Solid	8015 NM	
890-2290-10	BH-101	Total/NA	Solid	8015 NM	
890-2290-11	BH-102	Total/NA	Solid	8015 NM	
890-2290-12	BH-103	Total/NA	Solid	8015 NM	
890-2290-13	BH-104	Total/NA	Solid	8015 NM	
890-2290-14	BH-105	Total/NA	Solid	8015 NM	
890-2290-15	BH-106	Total/NA	Solid	8015 NM	
890-2290-16	BH-107	Total/NA	Solid	8015 NM	
890-2290-17	BH-108	Total/NA	Solid	8015 NM	
890-2290-18	BH-109	Total/NA	Solid	8015 NM	
890-2290-19	BH-110	Total/NA	Solid	8015 NM	
890-2290-20	BH-111	Total/NA	Solid	8015 NM	
890-2290-21	BH-112	Total/NA	Solid	8015 NM	
890-2290-22	BH-113	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-1	BH-92	Soluble	Solid	DI Leach	
890-2290-2	BH-93	Soluble	Solid	DI Leach	
890-2290-3	BH-94	Soluble	Solid	DI Leach	
890-2290-4	BH-95	Soluble	Solid	DI Leach	
890-2290-5	BH-96	Soluble	Solid	DI Leach	

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 25289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-6	BH-97	Soluble	Solid	DI Leach	_
890-2290-7	BH-98	Soluble	Solid	DI Leach	
890-2290-8	BH-99	Soluble	Solid	DI Leach	
890-2290-9	BH-100	Soluble	Solid	DI Leach	
890-2290-10	BH-101	Soluble	Solid	DI Leach	
890-2290-11	BH-102	Soluble	Solid	DI Leach	
890-2290-12	BH-103	Soluble	Solid	DI Leach	
890-2290-13	BH-104	Soluble	Solid	DI Leach	
890-2290-14	BH-105	Soluble	Solid	DI Leach	
890-2290-15	BH-106	Soluble	Solid	DI Leach	
890-2290-16	BH-107	Soluble	Solid	DI Leach	
890-2290-17	BH-108	Soluble	Solid	DI Leach	
890-2290-18	BH-109	Soluble	Solid	DI Leach	
890-2290-19	BH-110	Soluble	Solid	DI Leach	
890-2290-20	BH-111	Soluble	Solid	DI Leach	
MB 880-25289/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25289/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25289/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2290-1 MS	BH-92	Soluble	Solid	DI Leach	
890-2290-1 MSD	BH-92	Soluble	Solid	DI Leach	
890-2290-11 MS	BH-102	Soluble	Solid	DI Leach	
890-2290-11 MSD	BH-102	Soluble	Solid	DI Leach	

Analysis Batch: 25351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-1	BH-92	Soluble	Solid	300.0	25289
890-2290-2	BH-93	Soluble	Solid	300.0	25289
890-2290-3	BH-94	Soluble	Solid	300.0	25289
890-2290-4	BH-95	Soluble	Solid	300.0	25289
890-2290-5	BH-96	Soluble	Solid	300.0	25289
890-2290-6	BH-97	Soluble	Solid	300.0	25289
890-2290-7	BH-98	Soluble	Solid	300.0	25289
890-2290-8	BH-99	Soluble	Solid	300.0	25289
890-2290-9	BH-100	Soluble	Solid	300.0	25289
890-2290-10	BH-101	Soluble	Solid	300.0	25289
890-2290-11	BH-102	Soluble	Solid	300.0	25289
890-2290-12	BH-103	Soluble	Solid	300.0	25289
890-2290-13	BH-104	Soluble	Solid	300.0	25289
890-2290-14	BH-105	Soluble	Solid	300.0	25289
890-2290-15	BH-106	Soluble	Solid	300.0	25289
890-2290-16	BH-107	Soluble	Solid	300.0	25289
890-2290-17	BH-108	Soluble	Solid	300.0	25289
890-2290-18	BH-109	Soluble	Solid	300.0	25289
890-2290-19	BH-110	Soluble	Solid	300.0	25289
890-2290-20	BH-111	Soluble	Solid	300.0	25289
MB 880-25289/1-A	Method Blank	Soluble	Solid	300.0	25289
LCS 880-25289/2-A	Lab Control Sample	Soluble	Solid	300.0	25289
LCSD 880-25289/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25289
890-2290-1 MS	BH-92	Soluble	Solid	300.0	25289
890-2290-1 MSD	BH-92	Soluble	Solid	300.0	25289
890-2290-11 MS	BH-102	Soluble	Solid	300.0	25289

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 25351 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-11 MSD	BH-102	Soluble	Solid	300.0	25289

Leach Batch: 25414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-21	BH-112	Soluble	Solid	DI Leach	
890-2290-22	BH-113	Soluble	Solid	DI Leach	
MB 880-25414/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25414/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25414/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14738-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14738-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 25429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-21	BH-112	Soluble	Solid	300.0	25414
890-2290-22	BH-113	Soluble	Solid	300.0	25414
MB 880-25414/1-A	Method Blank	Soluble	Solid	300.0	25414
LCS 880-25414/2-A	Lab Control Sample	Soluble	Solid	300.0	25414
LCSD 880-25414/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25414
880-14738-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	25414
880-14738-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25414

Client Sample ID: BH-92 Lab Sample ID: 890-2290-1

Date Collected: 05/06/22 00:00 Matrix: Solid Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 14:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 13:54	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		10			25351	05/12/22 07:19	CH	XEN MID

Client Sample ID: BH-93 Lab Sample ID: 890-2290-2 Date Collected: 05/06/22 00:00 Matrix: Solid

Date Received: 05/06/22 15:23

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	25563	05/14/22 12:33	MR	XEN MIC
Total/NA	Analysis	8021B		1			25561	05/15/22 15:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 16:05	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 07:44	CH	XEN MI

Client Sample ID: BH-94 Lab Sample ID: 890-2290-3 Date Collected: 05/06/22 00:00 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 15:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 14:16	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 07:52	CH	XEN MID

Client Sample ID: BH-95 Lab Sample ID: 890-2290-4 Date Collected: 05/06/22 00:00 **Matrix: Solid**

Date Received: 05/06/22 15:23

Released to Imaging: 9/1/2023 3:11:42 PM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 15:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2290-4

Matrix: Solid

Job ID: 890-2290-1

SDG: Lea County NM

Client Sample ID: BH-95 Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 14:37	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		10			25351	05/12/22 08:00	CH	XEN MID

Client Sample ID: BH-96 Lab Sample ID: 890-2290-5

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 16:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 15:21	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 08:08	CH	XEN MID

Client Sample ID: BH-97 Lab Sample ID: 890-2290-6

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 16:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 14:59	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		10			25351	05/12/22 13:24	CH	XEN MID

Client Sample ID: BH-98 Lab Sample ID: 890-2290-7

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 17:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 15:43	SM	XEN MID

Client Sample ID: BH-98 Lab Sample ID: 890-2290-7

Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 13:33	CH	XEN MID

Client Sample ID: BH-99 Lab Sample ID: 890-2290-8

Date Collected: 05/06/22 00:00 **Matrix: Solid**

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 17:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 16:26	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 13:41	CH	XEN MID

Client Sample ID: BH-100 Lab Sample ID: 890-2290-9

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 18:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 16:49	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		10			25351	05/12/22 13:49	CH	XEN MID

Client Sample ID: BH-101 Lab Sample ID: 890-2290-10 Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 18:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 12:49	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 13:57	CH	XEN MID

Eurofins Carlsbad

Client Sample ID: BH-102 Lab Sample ID: 890-2290-11

Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 18:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 17:32	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 14:05	CH	XEN MID

Client Sample ID: BH-103 Lab Sample ID: 890-2290-12

Date Collected: 05/06/22 00:00 Matrix: Solid Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 19:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 17:54	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		10			25351	05/12/22 14:30	CH	XEN MID

Client Sample ID: BH-104 Lab Sample ID: 890-2290-13

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 19:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 18:15	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 14:38	CH	XEN MID

Client Sample ID: BH-105 Lab Sample ID: 890-2290-14 Date Collected: 05/06/22 00:00 **Matrix: Solid**

Date Received: 05/06/22 15:23

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 20:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID

Eurofins Carlsbad

Client Sample ID: BH-105

Lab Sample ID: 890-2290-14 Date Collected: 05/06/22 00:00 Matrix: Solid

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 20:02	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		1			25351	05/12/22 15:03	CH	XEN MID

Client Sample ID: BH-106 Lab Sample ID: 890-2290-15 **Matrix: Solid**

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		200			25561	05/14/22 22:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		5			25235	05/10/22 18:37	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 16:27	CH	XEN MID

Client Sample ID: BH-107 Lab Sample ID: 890-2290-16

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 20:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 19:41	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 16:35	CH	XEN MID

Client Sample ID: BH-108 Lab Sample ID: 890-2290-17

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		200			25561	05/14/22 22:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		5			25235	05/10/22 18:58	SM	XEN MID

Eurofins Carlsbad

Matrix: Solid

Client Sample ID: BH-108

Lab Sample ID: 890-2290-17 Date Collected: 05/06/22 00:00 Matrix: Solid

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 16:44	CH	XEN MID

Client Sample ID: BH-109 Lab Sample ID: 890-2290-18

Date Collected: 05/06/22 00:00 **Matrix: Solid**

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 21:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 20:24	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 15:14	CH	XEN MID

Client Sample ID: BH-110 Lab Sample ID: 890-2290-19

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		200			25561	05/14/22 22:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/11/22 07:03	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 16:52	CH	XEN MID

Client Sample ID: BH-111 Lab Sample ID: 890-2290-20

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 21:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 20:45	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	25289	05/10/22 17:06	SC	XEN MIC
Soluble	Analysis	300.0		5			25351	05/12/22 15:24	CH	XEN MID

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Client Sample ID: BH-112

Lab Sample ID: 890-2290-21 Date Collected: 05/06/22 00:00 Matrix: Solid Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 00:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25199	05/09/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25231	05/10/22 19:05	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25414	05/12/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		1			25429	05/12/22 13:00	CH	XEN MID

Client Sample ID: BH-113 Lab Sample ID: 890-2290-22 Date Collected: 05/06/22 00:00 Matrix: Solid

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 01:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25199	05/09/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25231	05/10/22 19:27	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25414	05/12/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		1			25429	05/12/22 13:09	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, but	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytee for w
the agency does not of	• •	it the laboratory is not certain	ed by the governing additionty. This list the	ay include analytes for w
0 ,	• •	Matrix	Analyte	ay include analytes for w
the agency does not of	fer certification.	•	, , ,	ay include analytes for w

Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

890-2290-22

BH-113

Job ID: 890-2290-1

05/06/22 15:23 5

05/06/22 00:00

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2290-1	BH-92	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-2	BH-93	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-3	BH-94	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-4	BH-95	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-5	BH-96	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-6	BH-97	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-7	BH-98	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-8	BH-99	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-9	BH-100	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-10	BH-101	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-11	BH-102	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-12	BH-103	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-13	BH-104	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-14	BH-105	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-15	BH-106	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-16	BH-107	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-17	BH-108	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-18	BH-109	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-19	BH-110	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-20	BH-111	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-21	BH-112	Solid	05/06/22 00:00	05/06/22 15:23	5

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	Relinquished by:	Reinquisned by:	Fred Nu	Relinquished by:											(LAB USE)	LAB#			Comments:		Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4	Analysis Request
	Date: Time:	Date: lime:		Ċ.	BH-101 (5')	BH-100 (5')	BH-99 (5')	BH-98 (5')	ВН-97 (5')	BH-96 (5')	BH-95 (5')	BH-94 (5')	ВН-93 (5')	ВН-92 (5')		SAMPLE IDENTIFICATION				Eurofins Xenco	Dusty McInturff - Permian Water Solutions		Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
	Received by:	neceived by.	(loe luf	Received by:	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	DATE		YEAR: 2020	SAMPLING			Sampler Signature:		Project #:		Sine Manager:		
	Date: Time:	Date. Illie.	1		×	×	×	×	×	×	×	×	×	×	WAT SOIL HCL HNO ICE None	3	- Min - C	MATRIX PRESERVATIVE		Ezequiel Moreno			212C-MD-02230		Clair Gonzales	901W Wall Street, Ste 100 Midland, Texas 19705 Tel (432) 882-4559 Fax (432) 892-3946	
(Circle) HAND DELIVERED FEDEX UPS Tracking #	Special Report Limits or TRRP Report	harges Authorized	ONLY	_	×		×	×	×	×	×	×	×	×	TPH PAH Total TCLP TCLP TCLP RCI GC/M PCB's NORI PLM Chlor Gene	802 TX10 8015 8270 Meta Vola Sem S Vo S Se (Asbeide ide eral V	O (Y/N 11B 1005 (E 10D 10D 10D 10D 10D 10D 10D 10D 10D 10D	BTEX xxt to C: C: RO - D As Ba (As Ba) As Ba (Bs) As Ba (Bs) As Ba (Bs) As Ba	35) RO - Cd C Cd (ORO	Se H	9	ist)	OBO-2530 Chair of Crision's	800 0000 0000 0000000000000000000000000		Page 1 of
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	Relinquished by:		Relinquished by:	12	Relinquished by											(LAB USE)	LAB#		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4
	Date: Time:		Date: Time:	Vlan 51612 1825		BH-111 (5')	BH-110 (5')	ВН-109 (5')	BH-108 (5')	BH-107 (5')	BH-106 (5')	BH-105 (5")	BH-104 (5')	BH-103 (5')	BH-102 (5')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
	Received by:		Received by:	((in (Received by:	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	DATE	YEAR: 2020	SAMPLING		Sampler Signature.		Project #:		Site Manager:	
	Da		/ Da	2 AN) Date:	×	×	×	×	×	×	×	×	×	×	WATE SOIL HCL	R	MATRIX		Ezequiel Moreno		212C-MD-02230		Clair Gonzales	901W Wall S Midland,T Tel (432) Fax (432)
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	Relinquished by:		Relinquished by:	Relinquished by:											(LAB USE)	LAB#			Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4
	Date: Time:		Date: Time:	Mars 5/6/22 1524					SW-37 (0-5')	SW-36 (0-5')	SW-35 (0-5')	SW-34 (0-5')	BH-113 (5')	BH-112 (5')		SAMPLE IDENTIFICATION				Eurofins Xenco	Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
	Received by:		Received by:	Received by:					5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	DATE	YEAR: 2020		SAMPLING		Sampler Signature:	-	Project #:		Site Manager:	
	0			CA TO					×	×	×	×	×	×	WATE	ER_	1	MATRIX		Ezequie		212C-M		Clair Gonzales	901W Wall Midland, Tel (43: Fax (43
	Date: Time:		Date: Time:	5.623	\vdash				×	×	×	×	×	×	HCL HNO ₃ ICE None		WEIHOD	PRESERVATIVE		Ezequiel Moreno		212C-MD-02230		ales	901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 882-4559 Fax (432) 682-3946
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Carlsbad, NM 88220 Phone: 575-988-3199 Fax. 575-988-3199 1

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Eurofins Carlsbad

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Chain of Custody Record

eurofins |

Environment Testing
America

BH-95 (890-2290-4) BH-94 (890-2290-3) BH-93 (890-2290-2) Project Name: Kaiser SWD BH-97 (890-2290-6) BH-92 (890-2290-1) Sample Identification - Client ID (Lab ID) BH-100 (890-2290-9) BH-99 (890-2290-8) BH-98 (890-2290-7) BH-96 (890-2290-5) 432-704-5440(Tel) Midland lote Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/hests/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 careditation 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 complicance to Eurofins Environment Testing South Central LLC. ΓX, 79701 tate, Zip: Shipping/Receiving ossible Hazard Identification 211 W Florida Ave eliverable Requested | | | | | | | | | | | | Other (specify) mpty Kit Relinquished by lient Information (Sub Contract Lab) linquished by linquished by linquished by: urofins Environment Testing South Centr Ž 3 Custody Seal No かららる Primary Deliverable Rank PO# Due Date Requested 5/12/2022 Date/Time Date/Time 88001057 TAT Requested (days): Sample Date roject# 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 Date Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Sample (C=comp, G=grab) Sample Preservation Code: Type Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid E-Mail Lab PM Kramer Jessica Jessica Kramer@et.eurofinsus com Field Filtered Sample (Yes or No) lime: NELAP - Texas Accreditations Required (See note) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep Full TPH Received by: × × × × × × × × Cooler Temperature(s) °C and Other Remarks × × × 8016MOD Calc × × × × Analysis Requested State of Origin: New Mexico Carrier Tracking No(s) - N **Total Number of containers** 7 1910 A HCL
B. NAOH
C. TA Acetale
D. Nitric Acid
E. NaHSO4
F. MeOH
G. Amchlor
H. Ascorbic Acid J - DI Water K EDTA L EDA COC No 890-747 1 Preservation 890-2290-1 Page 1 of 3 Special Instructions/Note M Hexane
N None
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P-Na2O4S
Q Na2SO3
R Na2SO3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W A-11-7 R Na2S2O3
S H2SO4
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W-pH 4-5
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Chain of Custody Record

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Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199

Eurofins Carlsbad

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Chain of Custody Record

SW-35 (890-2290-24) SW-34 (890-2290-23) BH-113 (890-2290-22) BH-112 (890-2290-21) BH-110 (890-2290-19) Project Name Kaiser SWD State Zip TX 79701 vote Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory 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 alboratory 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 complicance to Eurofins Environment Testing South Central LLC. SW-37 (890-2290-26) SW-36 (890-2290-25) BH-111 (890-2290-20) Possible Hazard Identification Sample Identification - Client ID (Lab ID) 432-704-5440(Tel) Deliverable Requested | | | | | | | Other (specify) elinquished by elinquished by mpty Kit Relinquished by /lidland 211 W Florida Ave Client Information Custody Seals Intact inquished by rofins Environment Testing South Centi nipping/Receiving Yes No u(Sub Contract Lab) Custody Seal No ∇ وُ -20 20 Project #: 88001057 Primary Deliverable Rank. 2 Date/Time Due Date Requested 5/12/2022 Phone Date/Time TAT Requested (days): 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Time (C=comp G=grab) Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Jessica Kramer@et.eurofinsus com
Accreditations Required (See note): E-Mail Kramer Jessica Time Field Filtered Sample (Yes or No) NELAP - Texas Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Received by Cooler Temperature(s) °C and Other Remarks × 8015MOD_NM/8015NM_S_Prep Full TPH × × × × × × × Return To Client × × × × × × 8015MOD_Calc Analysis Requested Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) Method of Shipment Date/Time Archive For بنقتم 4 A Printer - Jan. Total Number of containers جنب A HCL
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💸 eurofins

Environment Testing

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-2290-1 SDG Number: Lea County NM

Login Number: 2290 List Number: 1 Creator: Clifton, Cloe 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.	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: 890-2290-1

SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 05/09/22 12:39 PM

Login Number: 2290 List Number: 2 Creator: Teel, Brianna

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	

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ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2290-2

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

MEAMER

Authorized for release by: 5/16/2022 4:19:36 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

-----LINKS

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www.eurofinsus.com/Env
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2290-2 SDG: Lea County NM

Table of Contents

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

*1 LCS/LCSD RPD exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.

Eisted 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

Eurofins Carlsbad

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Case Narrative

Job ID: 890-2290-2 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Job ID: 890-2290-2

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2290-2

Receipt

The samples were received on 5/6/2022 3:23 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 11.8°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-25199/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-25199 and analytical batch 880-25231 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.

Project/Site: Kaiser SWD

Job ID: 890-2290-2 Client: Tetra Tech, Inc. SDG: Lea County NM

Client Sample ID: SW-34 Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 Sample Depth: 0 - 5

REMOVED FROM **ANALYSIS TABLE** Lab Sample ID: 890-2290-23

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/15/22 01:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/15/22 01:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/15/22 01:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/14/22 12:37	05/15/22 01:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/15/22 01:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/14/22 12:37	05/15/22 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

05/14/22 12:37 4-Bromofluorobenzene (Surr) 99 70 - 130 05/15/22 01:36 05/15/22 01:36 1,4-Difluorobenzene (Surr) 98 70 - 130 05/14/22 12:37

Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00402 0.00402 mg/Kg 05/16/22 16:56

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 49.9 05/11/22 10:27 **Total TPH** 1520 mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL Analyte Unit D Prepared Analyzed Dil Fac C6-C10 1100 49.9 mg/Kg 05/09/22 16:33 05/10/22 20:10 **Diesel Range Organics (Over** 49.9 05/09/22 16:33 05/10/22 20:10 422 mg/Kg C10-C28) <49.9 U 49.9 05/09/22 16:33 05/10/22 20:10 Oll Range Organics (Over C28-C36) mg/Kg

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 1-Chlorooctane (Surr) 108 70 - 130 05/09/22 16:33 05/10/22 20:10 o-Terphenyl (Surr) 106 70 - 130 05/09/22 16:33 05/10/22 20:10

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier D Dil Fac RL Unit Prepared Analyzed Chloride 24.8 05/12/22 13:19 1170 mg/Kg

Client Sample ID: SW-35 Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 Sample Depth: 0 - 5

REMOVED FROM **ANALYSIS TABLE** Lab Sample ID: 890-2290-24

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <0.00199 U 0.00199 05/15/22 02:02 Benzene 05/14/22 12:37 mg/Kg Toluene <0.00199 U 0.00199 05/14/22 12:37 05/15/22 02:02 mg/Kg mg/Kg 05/15/22 02:02 Ethylbenzene < 0.00199 0.00199 05/14/22 12:37 m-Xylene & p-Xylene <0.00398 U 0.00398 mg/Kg 05/14/22 12:37 05/15/22 02:02 <0.00199 U 0.00199 05/14/22 12:37 05/15/22 02:02 o-Xylene mg/Kg Xylenes, Total <0.00398 U 0.00398 mg/Kg 05/14/22 12:37 05/15/22 02:02 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 103 70 - 130 05/14/22 12:37 05/15/22 02:02 1,4-Difluorobenzene (Surr) 101 70 - 130 05/14/22 12:37 05/15/22 02:02

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-35

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 Sample Depth: 0 - 5 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2290-24

Matrix: Solid

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	435		49.9	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U *1	49.9	mg/Kg		05/09/22 16:33	05/10/22 20:32	1
Diesel Range Organics (Over C10-C28)	435		49.9	mg/Kg		05/09/22 16:33	05/10/22 20:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/09/22 16:33	05/10/22 20:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130			05/09/22 16:33	05/10/22 20:32	1
o-Terphenyl (Surr)	116		70 - 130			05/09/22 16:33	05/10/22 20:32	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		24.8	mg/Kg			05/12/22 13:46	5

Client Sample ID: SW-36

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 0 - 5

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2290-25

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.100	U	0.100	mg/Kg		05/14/22 12:37	05/15/22 03:46	50
Toluene	<0.100	U	0.100	mg/Kg		05/14/22 12:37	05/15/22 03:46	50
Ethylbenzene	<0.100	U	0.100	mg/Kg		05/14/22 12:37	05/15/22 03:46	50
m-Xylene & p-Xylene	<0.201	U	0.201	mg/Kg		05/14/22 12:37	05/15/22 03:46	50
o-Xylene	<0.100	U	0.100	mg/Kg		05/14/22 12:37	05/15/22 03:46	50
Xylenes, Total	<0.201	U	0.201	mg/Kg		05/14/22 12:37	05/15/22 03:46	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/14/22 12:37	05/15/22 03:46	50
1,4-Difluorobenzene (Surr)	97		70 - 130			05/14/22 12:37	05/15/22 03:46	50
Method: Total BTEX - Total BT	TEX Calculation							
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX			RL	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 05/16/22 16:56	Dil Fac
Analyte	Result <0.201	U			<u>D</u>	Prepared		
Analyte Total BTEX	Result <0.201	U			<u>D</u>	Prepared Prepared		
Analyte Total BTEX Method: 8015 NM - Diesel Rar	Result <0.201	U (GC)	0.201	mg/Kg	<u> </u>		05/16/22 16:56	1
Analyte Total BTEX Method: 8015 NM - Diesel Rar Analyte	Result 4280	U O) (GC) Qualifier	0.201	mg/Kg	<u> </u>		05/16/22 16:56 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH	nge Organics (DR) Result 4280 Ange Organics (D	U O) (GC) Qualifier	0.201	mg/Kg	<u> </u>		05/16/22 16:56 Analyzed	1 Dil Fac

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-36

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 Sample Depth: 0 - 5 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2290-25

Lab Sample ID: 890-2290-26

Matrix: Solid

Matrix: Solid

c: Solid

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	4130		50.0	mg/Kg		05/09/22 16:33	05/10/22 19:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130			05/09/22 16:33	05/10/22 19:48	1
o-Terphenyl (Surr)	126		70 - 130			05/09/22 16:33	05/10/22 19:48	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1980		25.0	mg/Kg			05/12/22 13:55	5

Client Sample ID: SW-37

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 0 - 5

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	ANA	ALYSIS	TABLE
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.0500	U	0.0500	mg/Kg		05/14/22 12:37	05/15/22 04:13	2
Toluene	<0.0500	U	0.0500	mg/Kg		05/14/22 12:37	05/15/22 04:13	2
Ethylbenzene	<0.0500	U	0.0500	mg/Kg		05/14/22 12:37	05/15/22 04:13	2
m-Xylene & p-Xylene	<0.100	U	0.100	mg/Kg		05/14/22 12:37	05/15/22 04:13	2
o-Xylene	<0.0500	U	0.0500	mg/Kg		05/14/22 12:37	05/15/22 04:13	2
Xylenes, Total	<0.100	U	0.100	mg/Kg		05/14/22 12:37	05/15/22 04:13	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	102		70 - 130			05/14/22 12:37	05/15/22 04:13	2
1,4-Difluorobenzene (Surr)	102		70 - 130			05/14/22 12:37	05/15/22 04:13	2
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.100	U	0.100	mg/Kg			05/16/22 16:56	•
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	346		50.0	mg/Kg			05/11/22 10:27	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
C6-C10	<50.0	U *1	50.0	mg/Kg		05/09/22 16:33	05/10/22 20:53	
Diesel Range Organics (Over	346		50.0	mg/Kg		05/09/22 16:33	05/10/22 20:53	
C10-C28)								
•	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 20:53	
Oll Range Organics (Over C28-C36)								
,	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	%Recovery	Qualifier	70 - 130			Prepared 05/09/22 16:33	Analyzed 05/10/22 20:53	Dil Fa

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2290-2 Project/Site: Kaiser SWD SDG: Lea County NM

RL

25.3

Unit

mg/Kg

D

Prepared

Client Sample ID: SW-37

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 Sample Depth: 0 - 5

Analyte

Chloride

Method: 300.0 - Anions, Ion Chromatography - Soluble

REMOVED FROM ANALYSIS TABLE

Result Qualifier

1510

Lab Sample ID: 890-2290-26

Analyzed

05/12/22 14:05

Matrix: Solid

Dil Fac

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2290-2 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2290-23	SW-34	99	98	
390-2290-24	SW-35	103	101	
890-2290-25	SW-36	99	97	
890-2290-26	SW-37	102	102	
890-2290-A-10-E MS	Matrix Spike	103	108	
890-2290-A-10-F MSD	Matrix Spike Duplicate	87	96	
_CS 880-25564/1-A	Lab Control Sample	101	100	
LCSD 880-25564/2-A	Lab Control Sample Dup	96	107	
MB 880-25564/5-A	Method Blank	77	92	
Surrogate Legend				

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	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-14554-A-1-C MS	Matrix Spike	109	108	
0-14554-A-1-D MSD	Matrix Spike Duplicate	94	94	
0-2290-23	SW-34	108	106	
0-2290-24	SW-35	118	116	
)-2290-25	SW-36	124	126	
)-2290-26	SW-37	108	108	
S 880-25199/2-A	Lab Control Sample	123	124	
SD 880-25199/3-A	Lab Control Sample Dup	129	132 S1+	
3 880-25199/1-A	Method Blank	99	103	

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2290-2 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25564/5-A

Lab Sample ID: LCS 880-25564/1-A

Matrix: Solid

Analysis Batch: 25561

Matrix: Solid Analysis Batch: 25561 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25564

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/14/22 12:37	05/14/22 18:01	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	05/14/22 12:37	05/14/22 18:01	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/14/22 12:37	05/14/22 18:01	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25564

	Spike	LCS LCS				%Rec	
Analyte	Added	Result Qualific	er Unit	D	%Rec	Limits	
Benzene	0.100	0.1104	mg/Kg		110	70 - 130	
Toluene	0.100	0.1137	mg/Kg		114	70 - 130	
Ethylbenzene	0.100	0.1151	mg/Kg		115	70 - 130	
m-Xylene & p-Xylene	0.200	0.2290	mg/Kg		115	70 - 130	
o-Xylene	0.100	0.1106	mg/Kg		111	70 - 130	
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LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-25564/2-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25561

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1232		mg/Kg		123	70 - 130	11	35	
Toluene	0.100	0.1126		mg/Kg		113	70 - 130	1	35	
Ethylbenzene	0.100	0.1066		mg/Kg		107	70 - 130	8	35	
m-Xylene & p-Xylene	0.200	0.2139		mg/Kg		107	70 - 130	7	35	
o-Xvlene	0.100	0 1122		ma/Ka		112	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-2290-A-10-E MS

Matrix: Solid

Analysis Batch: 25561

Client Sam	ple ID: Matrix Spike
	Prep Type: Total/NA

Prep Batch: 25564

Prep Batch: 25564

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.1011		mg/Kg		100	70 - 130	
Toluene	< 0.00199	U	0.101	0.09136		mg/Kg		91	70 - 130	

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2290-A-10-E MS

Matrix: Solid

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Matrix: Solid Analysis Batch: 25561

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.101	0.08965		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1797		mg/Kg		89	70 - 130	
o-Xylene	< 0.00199	U	0.101	0.08784		mg/Kg		87	70 - 130	

MS MS

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: 890-2290-A-10-F MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 25561

Prep Type: Total/NA

Prep Batch: 25564

Prep Batch: 25564

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00199 U 0.08471 mg/Kg 85 70 - 130 18 35 82 Toluene <0.00199 U 0.100 0.08214 mg/Kg 70 - 130 11 35 Ethylbenzene <0.00199 U 0.100 0.08185 mg/Kg 82 70 - 130 9 35 0.200 0.1660 83 70 - 130 35 m-Xylene & p-Xylene <0.00398 U mg/Kg 8 0.100 <0.00199 U 0.07935 79 70 - 130 o-Xylene mg/Kg 10

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-25199/1-A

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 25231

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		Prep Type: Total/NA Prep Batch: 25199
MB I	мв	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
C6-C10	<50.0	U	50.0	mg/Kg	_	05/09/22 16:33	05/10/22 11:21	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 11:21	1	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 11:21	1	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	05/09/22 16:3	33 05/10/22 11:21	1
o-Terphenyl (Surr)	103		70 - 130	05/09/22 16:	33 05/10/22 11:21	1

Lab Sample ID: LCS 880-25199/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Analysis Batch: 25231

 Analyte
 Added
 Result 1000
 Qualifier 858.3
 Unit mg/Kg
 D 86 70 - 130

 C6-C10
 1000
 858.3
 mg/Kg
 86 70 - 130

 Diesel Range Organics (Over
 1000
 1226
 mg/Kg
 123 70 - 130

C10-C28)

Eurofins Carlsbad

Prep Type: Total/NA

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Job ID: 890-2290-2 SDG: Lea County NM

Project/Site: Kaiser SWD

Client: Tetra Tech, Inc.

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

Lab Sample ID: LCS 880-25199/2-A

Matrix: Solid

Analysis Batch: 25231

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25199

Surrogate %Recovery Qualifier Limits 1-Chlorooctane (Surr) 123 70 - 130 o-Terphenyl (Surr) 124 70 - 130

Lab Sample ID: LCSD 880-25199/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 25231

Prep Type: Total/NA

Prep Batch: 25199

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit C6-C10 1000 1077 108 70 - 13023 20 mg/Kg Diesel Range Organics (Over 1000 1304 mg/Kg 130 70 - 130 20 C10-C28)

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane (Surr) 129 70 - 130 o-Terphenyl (Surr) 132 S1+ 70 - 130

Lab Sample ID: 880-14554-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 25231

Prep Type: Total/NA

Prep Batch: 25199

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C6-C10	<50.0	U *1	1000	1064		mg/Kg		106	70 - 130	
Diesel Range Organics (Over	<50.0	U	1000	1112		mg/Kg		109	70 - 130	
C10-C28)										

MS MS

Qualifier Surrogate %Recovery Limits 1-Chlorooctane (Surr) 109 70 - 130 o-Terphenyl (Surr) 108 70 - 130

Lab Sample ID: 880-14554-A-1-D MSD

Matrix: Solid

Analysis Batch: 25231

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Prep Batch: 25199

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit C6-C10 <50.0 U *1 998 90 70 - 130 20 899.1 mg/Kg 17 Diesel Range Organics (Over <50.0 U 998 969.3 mg/Kg 95 70 - 130 14 20 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 1-Chlorooctane (Surr) 94 70 - 130 94 70 - 130 o-Terphenyl (Surr)

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25414/1-A

Matrix: Solid

Analysis Batch: 25429

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL Unit
 Unit mg/Kg
 D mg/Kg
 Prepared Displayed
 Analyzed Dil Fac Dil Fac Displayed

Lab Sample ID: LCS 880-25414/2-A

Matrix: Solid

Analysis Batch: 25429

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 245.3 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-25414/3-A

Matrix: Solid

Analysis Batch: 25429

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 245.1 mg/Kg 90 - 110

Lab Sample ID: 880-14738-A-1-B MS

Matrix: Solid

Analysis Batch: 25429

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits 438.3 Chloride 208 248 90 - 110 mg/Kg

Lab Sample ID: 880-14738-A-1-C MSD

Matrix: Solid

Analysis Batch: 25429

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 208 435.7 mg/Kg 92 90 - 110 20

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QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Analysis Batch: 25561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Total/NA	Solid	8021B	25564
890-2290-24	SW-35	Total/NA	Solid	8021B	25564
890-2290-25	SW-36	Total/NA	Solid	8021B	25564
890-2290-26	SW-37	Total/NA	Solid	8021B	25564
MB 880-25564/5-A	Method Blank	Total/NA	Solid	8021B	25564
LCS 880-25564/1-A	Lab Control Sample	Total/NA	Solid	8021B	25564
LCSD 880-25564/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25564
890-2290-A-10-E MS	Matrix Spike	Total/NA	Solid	8021B	25564
890-2290-A-10-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25564

Prep Batch: 25564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Total/NA	Solid	5035	
890-2290-24	SW-35	Total/NA	Solid	5035	
890-2290-25	SW-36	Total/NA	Solid	5035	
890-2290-26	SW-37	Total/NA	Solid	5035	
MB 880-25564/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25564/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25564/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2290-A-10-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2290-A-10-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-2290-23	SW-34	Total/NA	Solid	Total BTEX
890-2290-24	SW-35	Total/NA	Solid	Total BTEX
890-2290-25	SW-36	Total/NA	Solid	Total BTEX
890-2290-26	SW-37	Total/NA	Solid	Total BTEX

GC Semi VOA

Prep Batch: 25199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Total/NA	Solid	8015NM Prep	
890-2290-24	SW-35	Total/NA	Solid	8015NM Prep	
890-2290-25	SW-36	Total/NA	Solid	8015NM Prep	
890-2290-26	SW-37	Total/NA	Solid	8015NM Prep	
MB 880-25199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14554-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14554-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25231

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Total/NA	Solid	8015B NM	25199
890-2290-24	SW-35	Total/NA	Solid	8015B NM	25199
890-2290-25	SW-36	Total/NA	Solid	8015B NM	25199
890-2290-26	SW-37	Total/NA	Solid	8015B NM	25199
MB 880-25199/1-A	Method Blank	Total/NA	Solid	8015B NM	25199
LCS 880-25199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25199

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QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 25231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-25199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25199
880-14554-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	25199
880-14554-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25199

Analysis Batch: 25344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Total/NA	Solid	8015 NM	
890-2290-24	SW-35	Total/NA	Solid	8015 NM	
890-2290-25	SW-36	Total/NA	Solid	8015 NM	
890-2290-26	SW-37	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Soluble	Solid	DI Leach	
890-2290-24	SW-35	Soluble	Solid	DI Leach	
890-2290-25	SW-36	Soluble	Solid	DI Leach	
890-2290-26	SW-37	Soluble	Solid	DI Leach	
MB 880-25414/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25414/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25414/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14738-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14738-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 25429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Soluble	Solid	300.0	25414
890-2290-24	SW-35	Soluble	Solid	300.0	25414
890-2290-25	SW-36	Soluble	Solid	300.0	25414
890-2290-26	SW-37	Soluble	Solid	300.0	25414
MB 880-25414/1-A	Method Blank	Soluble	Solid	300.0	25414
LCS 880-25414/2-A	Lab Control Sample	Soluble	Solid	300.0	25414
LCSD 880-25414/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25414
880-14738-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	25414
880-14738-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25414

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Client: Tetra Tech, Inc. Job ID: 890-2290-2 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-34 Lab Sample ID: 890-2290-23

Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 01:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25659	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25344	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25199	05/09/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25231	05/10/22 20:10	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25414	05/12/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		5			25429	05/12/22 13:19	CH	XEN MID

Client Sample ID: SW-35 Lab Sample ID: 890-2290-24

Date Collected: 05/06/22 00:00 Matrix: Solid Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 02:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25659	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25344	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25199	05/09/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25231	05/10/22 20:32	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	25414	05/12/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		5			25429	05/12/22 13:46	CH	XEN MID

Client Sample ID: SW-36 Lab Sample ID: 890-2290-25

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		50			25561	05/15/22 03:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25659	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25344	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25199	05/09/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25231	05/10/22 19:48	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25414	05/12/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		5			25429	05/12/22 13:55	CH	XEN MID

Client Sample ID: SW-37 Lab Sample ID: 890-2290-26

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		25			25561	05/15/22 04:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25659	05/16/22 16:56	SM	XEN MID

Date Received: 05/06/22 15:23

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2290-2 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-37

Analysis

Lab Sample ID: 890-2290-26 Date Collected: 05/06/22 00:00

Matrix: Solid

СН

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 25344 Analysis 05/11/22 10:27 SM XEN MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 25199 05/09/22 16:33 DM XEN MID Total/NA Analysis 8015B NM 25231 05/10/22 20:53 SM XEN MID 1 Soluble DI Leach 25414 05/12/22 11:30 XEN MID Leach 4.95 g 50 mL CH 300.0 25429 05/12/22 14:05 XEN MID

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Laboratory References:

Soluble

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-21-22	06-30-22	
The following analytes	are included in this report by	it the leberatory is not contiffi	iad butba gaugeming authority. This list ma		
the agency does not of	' '	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for v	
,	' '	Matrix	Analyte	ay include analytes for v	
the agency does not of	fer certification.	•	, , ,	ay include analytes for v	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2290-2

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2290-23	SW-34	Solid	05/06/22 00:00	05/06/22 15:23	0 - 5
890-2290-24	SW-35	Solid	05/06/22 00:00	05/06/22 15:23	0 - 5
890-2290-25	SW-36	Solid	05/06/22 00:00	05/06/22 15:23	0 - 5
890-2290-26	SW-37	Solid	05/06/22 00:00	05/06/22 15:23	0 - 5

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Tetra Tech, Inc.	Solutions
Time:	Common C
Clair Gonzales Clair Gonzales	Clair Gonzales Clair Gonzales Clair Gonzales Clair Gonzales Clair Gonzales Clair Gonzales Clair Gonzales Clair Gonzales Clair Gonzales Ezequiel Moren A
Wone Wone	# CONTAINERS # CONTAINERS # CONTAINERS # ILTERED (Y/N) W CONTAINERS FILTERED (Y/N)
TPH TX1005 (Ext to C35) TPH TX1005 (Ext to C35) X X X X X X X X X X X 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	TPH TX1005 (Ext to C35) W X X X X X X X X X
TCLP Semi Volatiles	TCLP Semi Volatiles
	# PLM (Asbestos) PLM (Asbestos) PLM (Asbestos) X X X X X X X X X X X Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance

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	Relinquished by:		Relinquished by:	1	Relinquished by											(LAB USE)	LAB #				Comments:	Receiving Laboratory:	invoice to:	(county, state)	Project Name:	Client Name:	4	Analysis Reque
	Date: Time:		Date: Time:	5/6/12 1825	Date: Time:	BH-111 (5')	BH-110 (5')	ВН-109 (5')	BH-108 (5')	BH-107 (5')	BH-106 (5')	BH-105 (5')	BH-104 (5')	ВН-103 (5')	ВН-102 (5')		SAMPLE IDENTIFICATION				Eurotins Xenco		Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
	Received by:		Received by:	((14)	Received by:	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	DATE	-	YEAR: 2020	SAMPLING			Sampler Signature:		rroject #:		Site Manager:		
	Date: Ti		/ Date: Ti	2.01.9 AN	Date: Ti	×	×	×	×	×	×	×	×	×	×	WAT SOIL HCL HNC)3		MATRIX PRESERVATIVE			Ezequiel Moreno		212C-MD-02230		Clair Gonzales	901W Wall Street, Sie 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
	Time:		Time	න ව	Time:	_	_									# CO	NTA EREI) (Y	RS /N)									
(Circle) HAND DELIVERED			Sample Temperature	ONLY	Ш	×	×	×	×	×	×	×	×	×	×	TPH PAH Total	8015 8270 Meta	OO5 OC als A	GRO g As	EX 826 C35) - DRO Ba Cd Ba Cd	- OF	o Se	Hg			A (Circle)		
FEDEX UPS	Special Report	Rush Charges Authorized	RUSH: Same Day		REMARKS:	-		-								TCLF RCI GC/N	MS Vo	ni Vo	260B Vol.	/ 624 8270C/	625					ANALYSIS REQUEST or Specify Method		
Tracking #:	Special Report Limits or TRRP Report	Authorized	Day 24 nr 46 nr 72		85	×	×	×	×	×	×	×	×	×	×	PLM Chlor Chlo	(Asb ride ride eral \	S Vate	ulfate	emistry	_	e att	achec	I list)		EST thod No.)		Page 2
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Permian Water Solutions	Relinquished by:	Relinquished by:	Relinquished by:								(LAB USE)	LAB#		Collinatina.		Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4
Sampler Signature:			Date: Time: 72 15		SW-37 (0-5')	SW-36 (0-5')	SW-35 (0-5')	SW-34 (0-5')	BH-113 (5')	BH-112 (5')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions		Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
Date: Time: ANALY ANAL	Received by:	Received by:	Received by:		5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022		YEAR: 2020	SAMPLING			Sampler Signature:		Project #:		Site Manager:	
# CONTAINERS FILTERED (Y/N)			ate:								HCL HNO:	3	+		Ezequiel Moreno			212C-MD-02230		Clair Gonzales	901W Wall Street, Sie 100 Middand,Toxas 79705 Tel (432) 882-4559 Fax (432) 882-3946
Anion/Cation Balance	Special Report Limits or TRRP Report	RUSH: Same Day	ONLY X STANDARD		*	×	×	×	×	×	FILTE BTEX TPH TPH TPH TOTAL TCLP TCLP TCLP GC/M RCI GC/M NORR PLM CChlor CChlor Gene	RED 8021 IX1000 80215M 80215M Metals Volati Semi S Vol. S Seni Asbes de ide ral W	(Y/N) B BTT 15 (Ext II I (GRC Ag As s Ag As s Ag As S Ag As II I (For II I (o C35) - DRO Ba Cd (iii Ba Cd iiii Ba Cd iiii Ba Cd iiii Ba Cd ii Ba Cd iii	- ORO Cr Pb S Cr Pb	Se Hg		ist)		ANALYSIS REQUEST e or Specify Method	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-2290-2

SDG Number: Lea County NM

Login Number: 2290 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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.	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	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2290-2 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 05/09/22 12:39 PM

List Number: 2 Creator: Teel, Brianna

Login Number: 2290

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	

Released to Imaging: 9/1/2023 3:11:42 PM

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2515-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 7/20/2022 7:58:20 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2515-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

2

Qualifiers

GC VOA Qualifier

F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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.

Qualifier Description

Qualifier Description

GC Semi VOA

Qualifier

	•
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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

PRES

QC

RER

TEF

TEQ

TNTC

RL RPD

Ciossaiy	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
п	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

Eurofins Carlsbad

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2515-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2515-1

Receipt

The samples were received on 7/8/2022 4:08 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

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-121 8 (890-2515-14), BH-122 8 (890-2515-15), BH-123 8 (890-2515-16), BH-124 8 (890-2515-17), BH-125 8 (890-2515-18), BH-126 8 (890-2515-19), BH-127 8 (890-2515-20), BH-128 8 (890-2515-21), BH-130 8 (890-2515-23), BH-131 8 (890-2515-24), BH-132 8 (890-2515-25), BH-133 8 (890-2515-26), BH-134 8 (890-2515-27), BH-136 8 (890-2515-29), BH-137 8 (890-2515-30), BH-138 8 (890-2515-31), BH-139 8 (890-2515-32), (CCV 880-29700/33) and (CCV 880-29700/51). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW35 0-6 (890-2515-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-114 10 (890-2515-7), BH-115 10 (890-2515-8), BH-116 10 (890-2515-9) and BH-117 10 (890-2515-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: BH-118 10 (890-2515-11). Elevated reporting limits (RLs) are provided.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-118 10 (890-2515-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-29987 and analytical batch 880-30016 were outside control limits. Sample matrix interference and/or non-homogeneity are 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH-117 10 (890-2515-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-29557 and analytical batch 880-29499 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-29563 and analytical batch 880-29603 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH-131 8 (890-2515-24). 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.

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2515-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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Lab Sample ID: 890-2515-1

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW34 0-6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 12:56	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 12:56	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 12:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 09:52	07/15/22 12:56	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 12:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 09:52	07/15/22 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/14/22 09:52	07/15/22 12:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130				07/14/22 09:52	07/15/22 12:56	1
- Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/15/22 08:13	1
						_	_		
Analyto	Pocult	Qualifier	DI	MDI	Unit	n	Propared	Analyzod	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/13/22 09:51	
				MDL		<u>D</u>	Prepared		
	<49.9	U		MDL		<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	<49.9 ge Organics (D Result	RO) (GC) Qualifier	49.9	MDL	mg/Kg	<u>D</u>	Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg			07/13/22 09:51	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	49.9 ge Organics (D) Result <49.9	RO) (GC) Qualifier U F2	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 20:46	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ge Organics (D Result	RO) (GC) Qualifier U F2	49.9		mg/Kg		Prepared	07/13/22 09:51 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ge Organics (D) Result <49.9 <49.9	U (GC) Qualifier U F2	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 20:46 07/12/22 20:46	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	49.9 ge Organics (D) Result <49.9	U (GC) Qualifier U F2	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 20:46	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ge Organics (D) Result <49.9 <49.9	U RO) (GC) Qualifier U F2 U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 20:46 07/12/22 20:46	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	49.9 ge Organics (D) Result <49.9 <49.9 <49.9	U RO) (GC) Qualifier U F2 U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 20:46 07/12/22 20:46	Dil Face 1 1 1 1 Dil Face
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery	U RO) (GC) Qualifier U F2 U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared	07/13/22 09:51 Analyzed 07/12/22 20:46 07/12/22 20:46 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery 95 109	U RO) (GC) Qualifier U F2 U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 20:46 07/12/22 20:46 Analyzed 07/12/22 20:46	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery 95 109 omatography -	U RO) (GC) Qualifier U F2 U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 20:46 07/12/22 20:46 Analyzed 07/12/22 20:46	Dil Fac

Client Sample ID: SW35 0-6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:52	07/15/22 13:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:52	07/15/22 13:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:52	07/15/22 13:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:52	07/15/22 13:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:52	07/15/22 13:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:52	07/15/22 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130				07/14/22 09:52	07/15/22 13:17	1

Eurofins Carlsbad

Lab Sample ID: 890-2515-2

Matrix: Solid

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Client Sample ID: SW35 0-6

Date Collected: 07/06/22 00:00

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1 SDG: Lea County NM

Lab Sample ID: 890-2515-2

Lab Sample ID: 890-2515-3

Matrix: Solid

Matrix: Solid

Date Received: 07/08/22 16:08 Sample Depth: 0 - 6

Method: 8021B - Volatile Organic	Compounds (GC) (Continued)
----------------------------------	----------------------------

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	07/14/22 09:52	07/15/22 13:17	1

Method: To	ntal RTFY.	Total BTEX	Calculation
mictilou. It	Jiai Di La	TOTAL DIEX	Odiculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg		_	07/15/22 08:13	1

Method: 8015 NM - Diesel	Range Organics (DRO) (GO	2)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			07/13/22 09:51	1

Method: 8015B NM - Diesel	Range Organics	(DRO) (GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 21:50	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 21:50	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 21:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92	-	70 - 130				07/12/22 14:24	07/12/22 21:50	1

1-Ch	lorooctane	92	70 - 130	07/12/22 14:24	07/12/22 21:50
o-Te	phenyl	106	70 - 130	07/12/22 14:24	07/12/22 21:50

Method: 300.0 - Anions, Ion Chrom	atography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifici	111	IVIDE	Oilit	 Fiepareu	Allalyzeu	Diriac
Chloride	244		4.98		mg/Kg		07/14/22 04:18	1

Client Sample ID: SW36 0-6

Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Method: 8021B -	Volatile Organ	ic Compounds	(GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:52	07/15/22 17:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:52	07/15/22 17:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:52	07/15/22 17:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/22 09:52	07/15/22 17:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:52	07/15/22 17:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/22 09:52	07/15/22 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/14/22 09:52	07/15/22 17:36	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/14/22 09:52	07/15/22 17:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Uni	t	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	ma	'Ka			07/15/22 08:13	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			07/13/22 09:51	1

Lab Sample ID: 890-2515-3

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW36 0-6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/12/22 22:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/12/22 22:11	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/12/22 22:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/12/22 14:24	07/12/22 22:11	1
o-Terphenyl	102		70 - 130				07/12/22 14:24	07/12/22 22:11	1
— Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.8		5.05		mg/Kg			07/14/22 04:27	1

Client Sample ID: SW37 0-6 Lab Sample ID: 890-2515-4 Date Collected: 07/06/22 00:00 Matrix: Solid

Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 16:25	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 16:25	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 16:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 09:52	07/15/22 16:25	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 16:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 09:52	07/15/22 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/14/22 09:52	07/15/22 16:25	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/14/22 09:52	07/15/22 16:25	1
Method: 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			07/15/22 08:13	1
-									
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/13/22 09:51	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Range	Result <49.9	Qualifier U				<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Range	Result <49.9	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			07/13/22 09:51	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 e Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 22:33	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 e Organics (D Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	07/13/22 09:51 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 e Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 22:33	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 e Organics (Digital Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 22:33 07/12/22 22:33	
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 e Organics (D) Result <49.9 <49.9 <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 22:33 07/12/22 22:33	1 Dil Fac 1 1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1

SDG: Lea County NM

Client Sample ID: SW37 0-6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Lab Sample ID: 890-2515-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.7		4.99		mg/Kg			07/14/22 04:37	1

Client Sample ID: BH-106 6 Lab Sample ID: 890-2515-5 Matrix: Solid

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:18	
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:18	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:18	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/14/22 09:52	07/15/22 18:18	
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:18	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/22 09:52	07/15/22 18:18	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				07/14/22 09:52	07/15/22 18:18	
1,4-Difluorobenzene (Surr)	113		70 - 130				07/14/22 09:52	07/15/22 18:18	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396		0.00396		mg/Kg			07/15/22 08:13	,
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/13/22 09:51	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 22:54	•
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 22:54	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 22:54	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	111		70 - 130				07/12/22 14:24	07/12/22 22:54	
	125		70 - 130				07/12/22 14:24	07/12/22 22:54	
o-Terphenyl	720								
o-Terphenyl Method: 300.0 - Anions, Ion Chro		Soluble							
	omatography -	Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2515-6

Client: Tetra Tech, Inc.

Job ID: 890-2515-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-108 6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:38	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/14/22 09:52	07/15/22 18:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:38	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/14/22 09:52	07/15/22 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				07/14/22 09:52	07/15/22 18:38	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/14/22 09:52	07/15/22 18:38	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/15/22 08:13	1
Analyte Total TPH	<50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 07/13/22 09:51	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
									Dil Fac
5 5	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 23:16	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0 <50.0		50.0		mg/Kg				
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)		U					07/12/22 14:24	07/12/22 23:16	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U U	50.0		mg/Kg		07/12/22 14:24	07/12/22 23:16 07/12/22 23:16	1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<50.0 <50.0	U U	50.0 50.0		mg/Kg		07/12/22 14:24 07/12/22 14:24 07/12/22 14:24	07/12/22 23:16 07/12/22 23:16 07/12/22 23:16	1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0 %Recovery	U U	50.0 50.0 <i>Limits</i>		mg/Kg		07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 <i>Prepared</i>	07/12/22 23:16 07/12/22 23:16 07/12/22 23:16 07/12/22 23:16 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 %Recovery 89 103	U U Qualifier	50.0 50.0 <u>Limits</u> 70 - 130		mg/Kg		07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared 07/12/22 14:24	07/12/22 23:16 07/12/22 23:16 07/12/22 23:16 07/12/22 23:16 Analyzed 07/12/22 23:16	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 **Recovery 89 103 **Domatography -	U U Qualifier	50.0 50.0 <u>Limits</u> 70 - 130	MDL	mg/Kg mg/Kg	D	07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared 07/12/22 14:24	07/12/22 23:16 07/12/22 23:16 07/12/22 23:16 07/12/22 23:16 Analyzed 07/12/22 23:16	1 1 1 1 Dil Fac

Client Sample ID: BH-114 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 19:20	10
Toluene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 19:20	10
Ethylbenzene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 19:20	10
m-Xylene & p-Xylene	<0.0404	U	0.0404		mg/Kg		07/14/22 09:52	07/15/22 19:20	10
o-Xylene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 19:20	10
Xylenes, Total	<0.0404	U	0.0404		mg/Kg		07/14/22 09:52	07/15/22 19:20	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130				07/14/22 09:52	07/15/22 19:20	10

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Lab Sample ID: 890-2515-7

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Matrix: Solid

Lab Sample ID: 890-2515-7

Lab Sample ID: 890-2515-8

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-114 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 10

Method: 8021B - Volatile O	rganic Compou	nds (GC)	(Continued)
Michiga: OUL 1B Volume C	i gaino compou	1145 (55)	(Goillinaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	126	70 - 130	07/14/22 09:52	07/15/22 19:20	10

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0404	U	0.0404		mg/Kg			07/15/22 08:13	1

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Moth	nod: 8015 NM	Diocal Bana	o Organica	IDDOVIC	105
INIELI	IOU. OU 15 INIVI	- Diesei Kang	e Organics	ין נטאטן	3C)

Analyte	Result	Qualifier	RL	MDL Uni	t D)	Prepared	Analyzed	Dil Fac
Total TPH	99.5		50.0	mg/	Kg			07/13/22 09:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 04:16	1
Diesel Range Organics (Over C10-C28)	99.5		50.0		mg/Kg		07/12/22 14:24	07/13/22 04:16	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	07/12/22 14:24	07/13/22 04:16	1
o-Terphenyl	105		70 - 130	07/12/22 14:24	07/13/22 04:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	266	5.00	mg/Kg			07/14/22 08:09	1

Client Sample ID: BH-115 10

Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 10

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	• voiatile Organic	Compounds (GC)

		()							
Analyte	Result	Qualifier	RL	MDL Ur	nit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0439		0.0201	m	g/Kg		07/14/22 09:52	07/15/22 19:40	10
Toluene	<0.0201	U	0.0201	mį	g/Kg		07/14/22 09:52	07/15/22 19:40	10
Ethylbenzene	<0.0201	U	0.0201	mç	g/Kg		07/14/22 09:52	07/15/22 19:40	10
m-Xylene & p-Xylene	<0.0402	U	0.0402	mį	g/Kg		07/14/22 09:52	07/15/22 19:40	10
o-Xylene	<0.0201	U	0.0201	mç	g/Kg		07/14/22 09:52	07/15/22 19:40	10
Xylenes, Total	<0.0402	U	0.0402	mç	g/Kg		07/14/22 09:52	07/15/22 19:40	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	205	S1+	70 - 130				07/14/22 09:52	07/15/22 19:40	10
1,4-Difluorobenzene (Surr)	128		70 - 130				07/14/22 09:52	07/15/22 19:40	10

Mothod:	Total RTFX	. Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0439		0.0402		mg/Kg			07/15/22 08:13	1

Method. 0013 MM - Dieser Kange Organics (DRO) (GC)	Method: 8015 NM - Die	esel Range C	Organics (DRO)	(GC)
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Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.1		49.9	mg/Kg			07/13/22 09:51	1

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Lab Sample ID: 890-2515-8

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-115 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 04:38	1
Diesel Range Organics (Over C10-C28)	86.1		49.9		mg/Kg		07/12/22 14:24	07/13/22 04:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/12/22 14:24	07/13/22 04:38	1
o-Terphenyl	96		70 - 130				07/12/22 14:24	07/13/22 04:38	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-116 10 Lab Sample ID: 890-2515-9 Date Collected: 07/06/22 00:00 Matrix: Solid

Date Received: 07/08/22 16:08

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0597		0.0202		mg/Kg		07/14/22 09:52	07/15/22 20:01	10
Toluene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 20:01	10
Ethylbenzene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 20:01	10
m-Xylene & p-Xylene	<0.0403	U	0.0403		mg/Kg		07/14/22 09:52	07/15/22 20:01	10
o-Xylene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 20:01	10
Xylenes, Total	<0.0403	U	0.0403		mg/Kg		07/14/22 09:52	07/15/22 20:01	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130				07/14/22 09:52	07/15/22 20:01	10
1,4-Difluorobenzene (Surr)	126		70 - 130				07/14/22 09:52	07/15/22 20:01	10
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0597		0.0403		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	196		49.9		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (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		07/12/22 14:24	07/13/22 03:54	1
Diesel Range Organics (Over C10-C28)	196		49.9		mg/Kg		07/12/22 14:24	07/13/22 03:54	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				07/12/22 14:24	07/13/22 03:54	1
	125		70 - 130				07/12/22 14:24	07/13/22 03:54	

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1

SDG: Lea County NM

Client Sample ID: BH-116 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 10

Lab Sample ID: 890-2515-9

Matrix: Solid

N	Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Α	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C	hloride	76.8		4.98		mg/Kg			07/14/22 08:28	1

Client Sample ID: BH-117 10 Lab Sample ID: 890-2515-10 Matrix: Solid

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0553		0.0199		mg/Kg		07/14/22 09:52	07/15/22 20:22	10
Toluene	<0.0199	U	0.0199		mg/Kg		07/14/22 09:52	07/15/22 20:22	10
Ethylbenzene	<0.0199	U	0.0199		mg/Kg		07/14/22 09:52	07/15/22 20:22	10
m-Xylene & p-Xylene	<0.0398	U	0.0398		mg/Kg		07/14/22 09:52	07/15/22 20:22	10
o-Xylene	<0.0199	U	0.0199		mg/Kg		07/14/22 09:52	07/15/22 20:22	10
Xylenes, Total	<0.0398	U	0.0398		mg/Kg		07/14/22 09:52	07/15/22 20:22	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	186	S1+	70 - 130				07/14/22 09:52	07/15/22 20:22	10
1,4-Difluorobenzene (Surr)	127		70 - 130				07/14/22 09:52	07/15/22 20:22	10
Method: Total BTEX - Total BT	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0553		0.0398		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	743		50.0		mg/Kg			07/13/22 09:51	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 02:50	1
Diesel Range Organics (Over C10-C28)	644		50.0		mg/Kg		07/12/22 14:24	07/13/22 02:50	1
Oll Range Organics (Over C28-C36)	98.9		50.0		mg/Kg		07/12/22 14:24	07/13/22 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				07/12/22 14:24	07/13/22 02:50	1
o-Terphenyl	133	S1+	70 - 130				07/12/22 14:24	07/13/22 02:50	1

	Method: 300.0 - Anions, Ion Chroma	atography - Solub	ole					
	Analyte	Result Qualit	fier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	114	4.96	mg/Kg			07/14/22 08:37	1

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-118 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Sample Depth: 10

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2515-11

Matrix: Solid

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-

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.101	U	0.101		mg/Kg		07/18/22 15:14	07/19/22 16:21	5
Toluene	<0.101	U	0.101		mg/Kg		07/18/22 15:14	07/19/22 16:21	5
Ethylbenzene	<0.101	U	0.101		mg/Kg		07/18/22 15:14	07/19/22 16:21	5
m-Xylene & p-Xylene	<0.202	U	0.202		mg/Kg		07/18/22 15:14	07/19/22 16:21	5
o-Xylene	<0.101	U	0.101		mg/Kg		07/18/22 15:14	07/19/22 16:21	5
Xylenes, Total	<0.202	U	0.202		mg/Kg		07/18/22 15:14	07/19/22 16:21	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	103		70 - 130				07/18/22 15:14	07/19/22 16:21	5
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130				07/18/22 15:14	07/19/22 16:21	5
Method: Total BTEX - Total BTI	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.202	U	0.202		mg/Kg			07/15/22 08:13	
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	4480		249		mg/Kg			07/13/22 09:51	
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<249	U	249		mg/Kg		07/12/22 14:24	07/13/22 03:12	:
Diesel Range Organics (Over C10-C28)	3970		249		mg/Kg		07/12/22 14:24	07/13/22 03:12	
Oll Range Organics (Over C28-C36)	507		249		mg/Kg		07/12/22 14:24	07/13/22 03:12	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	90		70 - 130				07/12/22 14:24	07/13/22 03:12	
o-Terphenyl	94		70 - 130				07/12/22 14:24	07/13/22 03:12	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Client Sample ID: BH-119 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Sample Depth: 8

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2515-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Wethou. 002 ID - V	letilot. 80216 - Volatile Organic Compounts (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:52	07/15/22 18:59	1		
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:52	07/15/22 18:59	1		
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:52	07/15/22 18:59	1		
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:52	07/15/22 18:59	1		
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:52	07/15/22 18:59	1		
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:52	07/15/22 18:59	1		

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-119 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Sample Depth: 8

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2515-12

Matrix: Solid

Surrogate	%Recovery (Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118	70 - 130	07/14/22 09:52	07/15/22 18:59	1
1,4-Difluorobenzene (Surr)	110	70 - 130	07/14/22 09:52	07/15/22 18:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00400 U 0.00400 07/15/22 08:13 mg/Kg

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Dil Fac RL **MDL** Unit D Prepared Analyzed **Total TPH** 5070 250 mg/Kg 07/13/22 09:51

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac Gasoline Range Organics <250 U 250 07/12/22 14:24 07/13/22 03:33 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 4490 250 mg/Kg 07/12/22 14:24 07/13/22 03:33 5 C10-C28) **Oll Range Organics (Over 578** 250 mg/Kg 07/12/22 14:24 07/13/22 03:33 C28-C36)

Qualifier Limits Prepared Analyzed Dil Fac Surrogate %Recovery 07/12/22 14:24 07/13/22 03:33 1-Chlorooctane 97 70 - 130 o-Terphenyl 100 70 - 130 07/12/22 14:24 07/13/22 03:33 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride 25.1 07/14/22 09:14 3960 mg/Kg

Client Sample ID: BH-120 8 Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2515-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)
Analysis Brank On	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1 F2	0.00201		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
Toluene	<0.00201	U F1 F2	0.00201		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
Ethylbenzene	<0.00201	U F1 F2	0.00201		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.00402		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
o-Xylene	<0.00201	U F1 F2	0.00201		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
Xylenes, Total	<0.00402	U F1 F2	0.00402		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				07/14/22 09:57	07/15/22 01:35	1
1,4-Difluorobenzene (Surr)	95		70 - 130				07/14/22 09:57	07/15/22 01:35	1

Method: Total	I RTFY .	. Total RT	FY Calculati	on

MDL Unit Analyte Result Qualifier RLD Prepared Analyzed Dil Fac Total BTEX <0.00402 U 0.00402 07/15/22 08:13 mg/Kg

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-120 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Sample Depth: 8

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2515-13

Matrix: Solid

Method: 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			07/13/22 09:51	1	

T Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Dil Fac Analyte RL Unit Prepared Analyzed <49.8 U 49.8 07/12/22 14:24 07/12/22 23:37 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 49.8 07/12/22 14:24 07/12/22 23:37 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 07/12/22 14:24 07/12/22 23:37

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 1-Chlorooctane 88 70 - 130 07/12/22 14:24 07/12/22 23:37 o-Terphenyl 102 70 - 130 07/12/22 14:24 07/12/22 23:37

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed 25.2 Chloride 1150 mg/Kg 07/14/22 09:23

Client Sample ID: BH-121 8 Lab Sample ID: 890-2515-14

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Method: 8021B - Volatile Organic Compounds (GC)

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 02:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 02:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 02:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 02:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 02:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				07/14/22 09:57	07/15/22 02:01	1
1,4-Difluorobenzene (Surr)	80		70 - 130				07/14/22 09:57	07/15/22 02:01	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402		ma/ka			07/45/00 00 40	
			0.00102		mg/Kg			07/15/22 08:13	1
- Method: 8015 NM - Diesel Rai	nge Organics (DR	O) (GC)	0.00 102		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Rai Analyte	• •	O) (GC) Qualifier	RL	MDL		D	Prepared	07/15/22 08:13 Analyzed	Dil Fac
	• •	Qualifier		MDL		<u>D</u>	Prepared		1
Analyte		Qualifier U	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	1
Analyte Total TPH	Result <49.9 ange Organics (D	Qualifier U	RL	MDL MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	1

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07/12/22 23:59

07/12/22 23:59

07/12/22 14:24

07/12/22 14:24

49.9

49.9

mg/Kg

mg/Kg

<49.9 U

<49.9 U

Diesel Range Organics (Over

OII Range Organics (Over C28-C36)

C10-C28)

Matrix: Solid

Job ID: 890-2515-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-121 8

Lab Sample ID: 890-2515-14

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Matrix: Solid

Sample Depth: 8

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107	70 - 130	07/12/22 14:24	07/12/22 23:59	1
o-Terphenyl	118	70 - 130	07/12/22 14:24	07/12/22 23:59	1
Method: 300.0 - Anions, Ion Ch	romatography - Soluble				

RL

101

MDL Unit

mg/Kg

Analyte Result Qualifier Chloride

5280

Prepared Analyzed Dil Fac 07/14/22 18:25

Lab Sample ID: 890-2515-15

Client Sample ID: BH-122 8 Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Matrix: Solid

Sample Depth: 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 02:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 02:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 02:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 02:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 02:27	1
Xylenes, Total	< 0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	07/14/22 09:57	07/15/22 02:27	1
1,4-Difluorobenzene (Surr)	76		70 - 130	07/14/22 09:57	07/15/22 02:27	1

Method: 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		•	07/15/22 08:13	1

Method: 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/k	.g	•	07/13/22 09:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 00:20	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 00:20	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	07/12/22 14:24	07/13/22 00:20	1
o-Terphenyl	119		70 - 130	07/12/22 14:24	07/13/22 00:20	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble
Analyte	Result Qualifie

Analyte	Result Qual		MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1280	25.3	mg/Kg			07/14/22 18:34	5

Lab Sample ID: 890-2515-16

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-123 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 02:54	
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 02:54	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 02:54	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 09:57	07/15/22 02:54	
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 02:54	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 09:57	07/15/22 02:54	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130				07/14/22 09:57	07/15/22 02:54	
1,4-Difluorobenzene (Surr)	80		70 - 130				07/14/22 09:57	07/15/22 02:54	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/15/22 08:13	
Analyte Total TPH	<49.9	Qualifier U	RL 49.9	WIDE	mg/Kg	<u>D</u>	Prepared	Analyzed 07/13/22 09:51	Dil Fa
-			10.0		mg/rtg			01/10/22 00.01	
Method: 8015B NM - Diesel Rang						_			D.11 E
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 00:41	
(CPO) C6 C10									
•	<49.9	U	49.9		ma/Ka		07/12/22 14:24	07/13/22 00:41	
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 00:41	
Diesel Range Organics (Over	<49.9 <49.9		49.9 49.9		mg/Kg		07/12/22 14:24 07/12/22 14:24	07/13/22 00:41 07/13/22 00:41	
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)		U							
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9				07/12/22 14:24	07/13/22 00:41	
Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 %Recovery	U	49.9				07/12/22 14:24 Prepared	07/13/22 00:41 Analyzed	
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 **Recovery 89 103	U Qualifier	49.9 <i>Limits</i> 70 - 130				07/12/22 14:24 Prepared 07/12/22 14:24	07/13/22 00:41 Analyzed 07/13/22 00:41	Dil Fa
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 **Recovery 89 103 pmatography -	U Qualifier	49.9 <i>Limits</i> 70 - 130	MDL		<u>D</u>	07/12/22 14:24 Prepared 07/12/22 14:24	07/13/22 00:41 Analyzed 07/13/22 00:41	Dil Fa

Client Sample ID: BH-124 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2515-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 03:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 03:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 03:20	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/14/22 09:57	07/15/22 03:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 03:20	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/14/22 09:57	07/15/22 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				07/14/22 09:57	07/15/22 03:20	1

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3

5

10

12

14

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-124 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Sample Depth: 8

REMOVED FROM ANALYSIS TABLE

107

106

<50.0 U

Result Qualifier

Lab Sample ID: 890-2515-17

07/12/22 14:24

Prepared

D

07/13/22 01:24

Analyzed

07/14/22 18:52

Matrix: Solid

Dil Fac

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74		70 - 130				07/14/22 09:57	07/15/22 03:20	1
Method: 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			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		07/12/22 14:24	07/13/22 01:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Client Sample ID: BH-125 8 Lab Sample ID: 890-2515-18 **Matrix: Solid**

RL

4.96

MDL Unit

mg/Kg

mg/Kg

70 - 130

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 8

o-Terphenyl

Analyte

Chloride

Total TPH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 03:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 03:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 03:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 09:57	07/15/22 03:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 03:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 09:57	07/15/22 03:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				07/14/22 09:57	07/15/22 03:46	1
1,4-Difluorobenzene (Surr)	74		70 - 130				07/14/22 09:57	07/15/22 03:46	1
- Method: Total BTEX - Total B1	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/15/22 08:13	1
- Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte	• • •	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

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07/13/22 09:51

50.0

Lab Sample ID: 890-2515-18

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-125 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:46	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:46	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/12/22 14:24	07/13/22 01:46	1
o-Terphenyl	98		70 - 130				07/12/22 14:24	07/13/22 01:46	1
— Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3800		25.0		mg/Kg			07/14/22 19:02	5

Client Sample ID: BH-126 8 Lab Sample ID: 890-2515-19 Date Collected: 07/07/22 00:00 Matrix: Solid

Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 04:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 04:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 04:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 04:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 04:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				07/14/22 09:57	07/15/22 04:13	1
1,4-Difluorobenzene (Surr)	76		70 - 130				07/14/22 09:57	07/15/22 04:13	1
Method: 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			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		07/12/22 14:24	07/13/22 02:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 02:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				07/12/22 14:24	07/13/22 02:07	1
o-Terphenyl	115		70 ₋ 130				07/12/22 14:24	07/13/22 02:07	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1 SDG: Lea County NM

Client Sample ID: BH-126 8 Date Collected: 07/07/22 00:00

Lab Sample ID: 890-2515-19 Matrix: Solid

Sample Depth: 8

Date Received: 07/08/22 16:08

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4170		100		mg/Kg			07/14/22 19:11	20

Client Sample ID: BH-127 8 Lab Sample ID: 890-2515-20 Matrix: Solid

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 04:39	
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 04:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 04:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 04:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 04:39	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 04:39	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130				07/14/22 09:57	07/15/22 04:39	1
1,4-Difluorobenzene (Surr)	77		70 - 130				07/14/22 09:57	07/15/22 04:39	1
Method: 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			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzad	Dil Fac
Analyte Total TPH			49.9	MIDL		— <u>-</u>	Prepared	Analyzed	DII Fac
- - -	<49.9	U	49.9		mg/Kg			07/13/22 09:51	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		07/12/22 14:24	07/13/22 02:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 02:29	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				07/12/22 14:24	07/13/22 02:29	1
o-Terphenyl	106		70 - 130				07/12/22 14:24	07/13/22 02:29	1
	omatography	Soluble							
Method: 300.0 - Anions, Ion Chro	Jiliatograpily -	Colubic							
Method: 300.0 - Anions, Ion Chro Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2515-21

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-128 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 05:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 05:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 05:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/22 09:57	07/15/22 05:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 05:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/22 09:57	07/15/22 05:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				07/14/22 09:57	07/15/22 05:05	1
1,4-Difluorobenzene (Surr)	72		70 - 130				07/14/22 09:57	07/15/22 05:05	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	11							
-	10.0	U	49.9		mg/Kg			07/13/22 09:51	1
: Method: 8015B NM - Diesel Ran			49.9		mg/Kg			07/13/22 09:51	1
: Method: 8015B NM - Diesel Ran Analyte	ge Organics (D		49.9 RL	MDL		D	Prepared	07/13/22 09:51 Analyzed	
	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 07/12/22 15:30		
Analyte Gasoline Range Organics	ge Organics (D Result	RO) (GC) Qualifier U F1	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.9	RO) (GC) Qualifier U F1	RL 49.9	MDL	Unit mg/Kg	<u> </u>	07/12/22 15:30	Analyzed 07/13/22 11:31	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	Qualifier U F1 U F1	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30	Analyzed 07/13/22 11:31 07/13/22 11:31	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9 <49.9	Qualifier U F1 U F1	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u> </u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30	Analyzed 07/13/22 11:31 07/13/22 11:31 07/13/22 11:31	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	Qualifier U F1 U F1	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u> </u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared	Analyzed 07/13/22 11:31 07/13/22 11:31 07/13/22 11:31 Analyzed	Dil Face
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 93 107	RO) (GC) Qualifier U F1 U F1 U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared 07/12/22 15:30	Analyzed 07/13/22 11:31 07/13/22 11:31 07/13/22 11:31 Analyzed 07/13/22 11:31	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.9 <49.9 <49.9	RO) (GC) Qualifier U F1 U F1 U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared 07/12/22 15:30	Analyzed 07/13/22 11:31 07/13/22 11:31 07/13/22 11:31 Analyzed 07/13/22 11:31	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: BH-129 8 Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 05:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 05:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 05:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 05:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 05:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				07/14/22 09:57	07/15/22 05:32	1

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Lab Sample ID: 890-2515-22

Matrix: Solid

Job ID: 890-2515-1

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

SDG: Lea County NM

Lab Sample ID: 890-2515-22

Client Sample ID: BH-129 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 8021B	- Volatile Organic	Compounds ((GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74		70 - 130	07/14/22 09:57	07/15/22 05:32	1

Method: Total	BTFX - Total	BTEX Calculation
mothiod: rotal		DIE/ Guidalation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg	 		07/15/22 08:13	1

1					
Moth	nod: 8015 NM	Diocal Bana	o Organica	IDDOVIC	105
INIELI	IOU. OU 15 INIVI	- Diesei Kang	e Organics	ין נטאטן	3C)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/13/22 09:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 12:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 12:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89	70 - 130	07/12/22 15:30	07/13/22 12:36	1
o-Terphenyl	103	70 - 130	07/12/22 15:30	07/13/22 12:36	1

Method: 300	.0 - Anions, Ion	Chromatograph	y - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	926		4.95		mg/Kg				07/14/22 07:52	1

Client Sample ID: BH-130 8

Date Collected: 07/07/22 00:00

Matrix: Solid

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 8021B - '	Volatila	Organic (Compounds	(CC)

Wethou. 002 ID - Volatile Orga	inic compounds ((00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 07:18	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 07:18	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 07:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 09:57	07/15/22 07:18	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 07:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 09:57	07/15/22 07:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				07/14/22 09:57	07/15/22 07:18	1
1,4-Difluorobenzene (Surr)	80		70 - 130				07/14/22 09:57	07/15/22 07:18	1

Method:	Total R	TFY - T	ntal RT	FX Calcu	ılation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka	 		07/15/22 08:13	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			07/13/22 09:51	1

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Matrix: Solid

Lab Sample ID: 890-2515-23

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-130 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		07/12/22 15:30	07/13/22 12:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 12:58	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 12:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				07/12/22 15:30	07/13/22 12:58	1
o-Terphenyl	113		70 - 130				07/12/22 15:30	07/13/22 12:58	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	675		4.99		mg/Kg			07/14/22 08:00	1

Client Sample ID: BH-131 8 Lab Sample ID: 890-2515-24

Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 07:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 07:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 07:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 07:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 07:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 07:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				07/14/22 09:57	07/15/22 07:45	1
1,4-Difluorobenzene (Surr)	76		70 - 130				07/14/22 09:57	07/15/22 07:45	1
Method: 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			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.5		49.9		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		07/12/22 15:30	07/13/22 13:20	1
Diesel Range Organics (Over C10-C28)	63.5		49.9		mg/Kg		07/12/22 15:30	07/13/22 13:20	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/12/22 15:30	07/13/22 13:20	1
o-Terphenyl	0.05		70 ₋ 130				07/12/22 15:30	07/13/22 13:20	1

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-2515-1 SDG: Lea County NM

SDG: Lea County NM

Lab Sample ID: 890-2515-24

Client Sample ID: BH-131 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride85.55.00mg/Kg07/14/22 08:071

Client Sample ID: BH-132 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Method: Total BTEX - Total BTEX Calculation

REMOVED FROM ANALYSIS TABLE

Result Qualifier

Lab Sample ID: 890-2515-25

Analyzed

Dil Fac

Matrix: Solid

Sample Depth: 8

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 08:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 08:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 08:11	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/14/22 09:57	07/15/22 08:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 08:11	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/22 09:57	07/15/22 08:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				07/14/22 09:57	07/15/22 08:11	1
1,4-Difluorobenzene (Surr)	74		70 - 130				07/14/22 09:57	07/15/22 08:11	1

Total BTEX <0.00396 U 0.00396 mg/Kg 07/15/22 08:13 Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 mg/Kg 07/13/22 09:51

MDL Unit

D

Prepared

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 13:41	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 13:41	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				07/12/22 15:30	07/13/22 13:41	1
o-Terphenyl	102		70 - 130				07/12/22 15:30	07/13/22 13:41	1

Method: 300.0 - Anions, Ion Chroma	atography - So	oluble						
Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172	4.96		mg/Kg			07/14/22 08:15	1

Lab Sample ID: 890-2515-26

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-133 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 08:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 08:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 08:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 08:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 08:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 08:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				07/14/22 09:57	07/15/22 08:49	1
1,4-Difluorobenzene (Surr)	81		70 - 130				07/14/22 09:57	07/15/22 08:49	1
Method: Total BTEX - Total BTE	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/15/22 08:13	1
	<50.0		50.0	MDL	mg/Kg	=	Frepareu	07/13/22 09:51	1
Analyte Total TPH		Qualifier U		MDL		D	Prepared	Analyzed 07/13/22 09:51	Dil Fac
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Popult	Qualifier							
•	Result	Quaimer	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0			MDL	mg/Kg	D	Prepared 07/12/22 15:30	Analyzed 07/13/22 14:03	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U		MDL		<u> </u>			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	07/12/22 15:30	07/13/22 14:03	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0	U U	50.0	MDL	mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30	07/13/22 14:03 07/13/22 14:03	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 <50.0 <50.0	U U	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30	07/13/22 14:03 07/13/22 14:03 07/13/22 14:03	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 <50.0 <50.0 %Recovery	U U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared	07/13/22 14:03 07/13/22 14:03 07/13/22 14:03 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 %Recovery 86 101	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared 07/12/22 15:30	07/13/22 14:03 07/13/22 14:03 07/13/22 14:03 Analyzed 07/13/22 14:03	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 <50.0 <50.0 %Recovery 86 101 comatography -	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared 07/12/22 15:30	07/13/22 14:03 07/13/22 14:03 07/13/22 14:03 Analyzed 07/13/22 14:03	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: BH-134 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 09:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 09:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 09:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/22 09:57	07/15/22 09:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 09:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/22 09:57	07/15/22 09:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				07/14/22 09:57	07/15/22 09:16	1

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Matrix: Solid

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Lab Sample ID: 890-2515-27

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1 SDG: Lea County NM

Lab Sample ID: 890-2515-27

Lab Sample ID: 890-2515-28

Matrix: Solid

Client Sample ID: BH-134 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 8021R	- Volatile	Organic	Compounds	(GC) (Continued)

Surrogate	%Recovery Qualifier	r Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	78	70 - 130	07/14/22 09:57	07/15/22 09:16	1

ı				
ı	Method:	Total RTFX	: - Total BTEX	Calculation
ı	mictilou.	TOTAL DIE	- IOLAI DIEA	Oulculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg		_	07/15/22 08:13	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			07/13/22 09:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0		50.0		mg/Kg	<u>-</u>	07/12/22 15:30	07/13/22 14:24	1
(GRO)-C6-C10	100.0	O	00.0		mg/rtg		01/12/22 10:00	01/10/22 14.24	·
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 14:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzea	DII Fac
1-Chlorooctane	86		70 - 130	07/12/22 15:30	07/13/22 14:24	1
o-Terphenyl	101		70 - 130	07/12/22 15:30	07/13/22 14:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300	5.01		mg/Kg			07/14/22 08:47	1

Client Sample ID: BH-135 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 8021B	Malatile O		d- (OO)
I IVIATOOO' XII ZI R .	. VAISTIID I Jr	nanic Lomn	Allings Ital.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 09:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 09:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 09:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 09:57	07/15/22 09:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 09:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 09:57	07/15/22 09:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				07/14/22 09:57	07/15/22 09:42	1
1,4-Difluorobenzene (Surr)	74		70 - 130				07/14/22 09:57	07/15/22 09:42	1

Mothod:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		ma/Ka				07/15/22 08:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC	Method: 8015 NM -	- Diesel Range	Organics (DRO)	(GC
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			07/13/22 09:51	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1 SDG: Lea County NM

Client Sample ID: BH-135 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

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Lab Sample ID: 890-2515-29

Matrix: Solid

Matrix: Solid

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 14:45	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 14:45	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				07/12/22 15:30	07/13/22 14:45	1
o-Terphenyl	103		70 - 130				07/12/22 15:30	07/13/22 14:45	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	722		4.97		mg/Kg			07/14/22 10:01	1

Client Sample ID: BH-136 8

Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 10:08	
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 10:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 10:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 10:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 10:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 10:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130				07/14/22 09:57	07/15/22 10:08	1
1,4-Difluorobenzene (Surr)	72		70 - 130				07/14/22 09:57	07/15/22 10:08	1
Method: 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			07/15/22 08:13	1
•									
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
- -	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
: Method: 8015 NM - Diesel Range	•	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/13/22 09:51	Dil Fac
Method: 8015 NM - Diesel Range Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U		MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			07/13/22 09:51	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result Ge Organics (Diameter) Result 	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 07/12/22 15:30	07/13/22 09:51 Analyzed 07/13/22 15:07	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	07/13/22 09:51 Analyzed	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 15:30 07/12/22 15:30	07/13/22 09:51 Analyzed 07/13/22 15:07 07/13/22 15:07	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result Ge Organics (Diameter) Result 	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 07/12/22 15:30	07/13/22 09:51 Analyzed 07/13/22 15:07	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 15:30 07/12/22 15:30	07/13/22 09:51 Analyzed 07/13/22 15:07 07/13/22 15:07	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 15:30 07/12/22 15:30 07/12/22 15:30	07/13/22 09:51 Analyzed 07/13/22 15:07 07/13/22 15:07	1 Dil Fac

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1

Lab Sample ID: 890-2515-29

SDG: Lea County NM

Client Sample ID: BH-136 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		4.98		mg/Kg			07/14/22 10:09	1

Client Sample ID: BH-137 8 Lab Sample ID: 890-2515-30 **Matrix: Solid**

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 10:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 10:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 10:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 10:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 10:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 10:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1-	70 - 130				07/14/22 09:57	07/15/22 10:34	1
1,4-Difluorobenzene (Surr)	79		70 - 130				07/14/22 09:57	07/15/22 10:34	1
- Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Ran	ige Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/13/22 09:51	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 15:28	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 15:28	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/12/22 15:30	07/13/22 15:28	1
o-Terphenyl	104		70 - 130				07/12/22 15:30	07/13/22 15:28	1

RL

5.00

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

167

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Analyzed 07/14/22 10:17

Dil Fac

Analyte

Chloride

Lab Sample ID: 890-2515-31

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-138 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 11:01	
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 11:01	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 11:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/22 09:57	07/15/22 11:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 11:01	•
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/22 09:57	07/15/22 11:01	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				07/14/22 09:57	07/15/22 11:01	1
1,4-Difluorobenzene (Surr)	76		70 - 130				07/14/22 09:57	07/15/22 11:01	1
Method: 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			07/15/22 08:13	
Total TPH	55.9		50.0		mg/Kg			07/13/22 09:51	
			00.0		mg/rtg			07710722 00.01	,
Method: 8015B NM - Diesel Rang						_			B.: E
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 16:11	,
Diesel Range Organics (Over	55.9		50.0		mg/Kg		07/12/22 15:30	07/13/22 16:11	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 16:11	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	98		70 - 130				07/12/22 15:30	07/13/22 16:11	
o-Terphenyl	111		70 - 130				07/12/22 15:30	07/13/22 16:11	•
Method: 300.0 - Anions, Ion Chro	0 . ,								
A I4-	D 14	Qualifier	DI.	MDL	11	D	Duamanad	A so a la ses al	Dille
Analyte	Result	Quaimer	RL 4.99	MIDL	mg/Kg		Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2515-32 Client Sample ID: BH-139 8 Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 11:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 11:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 11:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 11:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 11:27	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 11:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				07/14/22 09:57	07/15/22 11:27	1

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Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1 SDG: Lea County NM

Lab Sample ID: 890-2515-32

Lab Sample ID: 890-2515-33

Matrix: Solid

Client Sample ID: BH-139 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 8021B	- Volatile Organic	Compounds ((GC) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74	70 - 130	07/14/22 09:57	07/15/22 11:27	1

Mathad:	Total	RTFY -	Total	RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/15/22 08:13	1

POV (CC	· (DD	Organics	Pango	Diceol	5 NIM	2015	Mothod:	
ı	\$ (D	Organics	Range	- Diesel	5 NM	8015	Method:	

Analyte	Result Qua	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			07/13/22 09:51	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) /CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (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		07/12/22 15:30	07/13/22 16:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 16:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92	70 - 130	07/12/22 15:30	07/13/22 16:32	1
o-Terphenyl	106	70 - 130	07/12/22 15:30	07/13/22 16:32	1

Method: 300.0) - Anions, Io	n Chromatograp	hy - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390		25.0		mg/Kg			07/14/22 15:23	5

Client Sample ID: BH-140 8

Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	• voiatile Organic	Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 10:08	07/15/22 23:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/22 10:08	07/15/22 23:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/22 10:08	07/15/22 23:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 10:08	07/15/22 23:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/22 10:08	07/15/22 23:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 10:08	07/15/22 23:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/14/22 10:08	07/15/22 23:49	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/14/22 10:08	07/15/22 23:49	1

Mothod:	Total RT	EY - Tota	I DTEY	Calculation

Analyte	Result Q	Qualifier RL	MDL Uni	t D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	J 0.00398	ma	/Ka		07/15/22 08:13	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			07/13/22 09:51	1

Lab Sample ID: 890-2515-33

Lab Sample ID: 890-2515-34

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-140 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		07/12/22 15:30	07/13/22 16:53	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		07/12/22 15:30	07/13/22 16:53	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/12/22 15:30	07/13/22 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				07/12/22 15:30	07/13/22 16:53	1
o-Terphenyl	103		70 - 130				07/12/22 15:30	07/13/22 16:53	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			4.97	_	mg/Kg			07/14/22 15:31	

Client Sample ID: BH-141 8

Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/22 10:08	07/16/22 00:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 10:08	07/16/22 00:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 10:08	07/16/22 00:10	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/14/22 10:08	07/16/22 00:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 10:08	07/16/22 00:10	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/22 10:08	07/16/22 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				07/14/22 10:08	07/16/22 00:10	1
1,4-Difluorobenzene (Surr)	104		70 - 130				07/14/22 10:08	07/16/22 00:10	1
Method: 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			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.0		49.9		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		07/12/22 15:30	07/13/22 17:15	1
Diesel Range Organics (Over C10-C28)	61.0		49.9		mg/Kg		07/12/22 15:30	07/13/22 17:15	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/12/22 15:30	07/13/22 17:15	1
o-Terphenyl	101		70 - 130				07/12/22 15:30	07/13/22 17:15	1

Lab Sample ID: 890-2515-34

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-141 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2410		24.8		mg/Kg			07/14/22 15:55	5

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Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	researce during attended by (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17011-A-1-D MS	Matrix Spike	122	79	· —— —— —— —— ——
880-17011-A-1-E MSD	Matrix Spike Duplicate	124	80	
890-2515-1	SW34 0-6	109	104	
890-2515-2	SW35 0-6	160 S1+	96	
890-2515-3	SW36 0-6	107	107	
890-2515-4	SW37 0-6	103	107	
890-2515-5	BH-106 6	114	113	
890-2515-6	BH-108 6	110	107	
890-2515-7	BH-114 10	174 S1+	126	
890-2515-8	BH-115 10	205 S1+	128	
890-2515-9	BH-116 10	180 S1+	126	
890-2515-10	BH-117 10	186 S1+	127	
890-2515-11	BH-118 10	103	62 S1-	
890-2515-12	BH-119 8	118	110	
890-2515-13	BH-120 8	120	95	
890-2515-13 MS	BH-120 8	132 S1+	78	
890-2515-13 MSD	BH-120 8	112	91	
890-2515-14	BH-121 8	137 S1+	80	
890-2515-15 890-2515-16	BH-122 8 BH-123 8	135 S1+	76	
		149 S1+	80	
890-2515-17	BH-124 8	145 S1+	74	
890-2515-18	BH-125 8	147 S1+	74	
890-2515-19	BH-126 8	147 S1+	76 77	
890-2515-20	BH-127 8	144 S1+	77	
890-2515-21	BH-128 8	147 S1+	72	
890-2515-22	BH-129 8	129	74	
890-2515-23	BH-130 8	135 S1+	80	
890-2515-24	BH-131 8	132 S1+	76	
890-2515-25	BH-132 8	150 S1+	74	
890-2515-26	BH-133 8	142 S1+	81	
890-2515-27	BH-134 8	142 S1+	78	
890-2515-28	BH-135 8	118	74	
890-2515-29	BH-136 8	148 S1+	72	
890-2515-30	BH-137 8	17 S1-	79	
890-2515-31	BH-138 8	139 S1+	76	
890-2515-32	BH-139 8	135 S1+	74	
890-2515-33	BH-140 8	107	107	
890-2515-33 MS	BH-140 8	98	100	
890-2515-33 MSD	BH-140 8	97	98	
890-2515-34	BH-141 8	104	104	
LCS 880-29722/1-A	Lab Control Sample	94	102	
LCS 880-29723/1-A	Lab Control Sample	129	77	
LCS 880-29739/1-A	Lab Control Sample	97	98	
LCS 880-29987/1-A	Lab Control Sample	119	90	
LCSD 880-29722/2-A	Lab Control Sample Dup	98	101	
LCSD 880-29723/2-A	Lab Control Sample Dup	138 S1+	78	
LCSD 880-29739/2-A	Lab Control Sample Dup	102	96	
LCSD 880-29987/2-A	Lab Control Sample Dup	127	92	
MB 880-29669/5-A	Method Blank	95	77	

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12

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
MB 880-29722/5-A	Method Blank	106	108	
MB 880-29723/5-A	Method Blank	98	74	
MB 880-29739/5-A	Method Blank	102	108	
MB 880-29987/5-A	Method Blank	87	84	
Surrogate Legend				
BFB = 4-Bromofluorobe	enzene (Surr)			
DFBZ = 1,4-Difluoroben	nzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

-				Develope Community Deservants (Assentance Limite)
		1001	ОТРН1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2515-1	SW34 0-6	95	109	
890-2515-1 MS	SW34 0-6	80	79	
890-2515-1 MSD	SW34 0-6	81	79	
890-2515-2	SW35 0-6	92	106	
890-2515-3	SW36 0-6	91	102	
890-2515-4	SW37 0-6	98	112	
890-2515-5	BH-106 6	111	125	
890-2515-6	BH-108 6	89	103	
890-2515-7	BH-114 10	95	105	
890-2515-8	BH-115 10	84	96	
890-2515-9	BH-116 10	113	125	
890-2515-10	BH-117 10	120	133 S1+	
890-2515-11	BH-118 10	90	94	
390-2515-12	BH-119 8	97	100	
890-2515-13	BH-120 8	88	102	
390-2515-14	BH-121 8	107	118	
890-2515-15	BH-122 8	108	119	
890-2515-16	BH-123 8	89	103	
890-2515-17	BH-124 8	93	107	
890-2515-18	BH-125 8	86	98	
890-2515-19	BH-126 8	106	115	
890-2515-20	BH-127 8	93	106	
890-2515-21	BH-128 8	93	107	
890-2515-21 MS	BH-128 8	79	92	
890-2515-21 MSD	BH-128 8	80	93	
890-2515-22	BH-129 8	89	103	
890-2515-23	BH-130 8	102	113	
890-2515-24	BH-131 8	86	0.05 S1-	
890-2515-25	BH-132 8	88	102	
890-2515-26	BH-133 8	86	101	
890-2515-27	BH-134 8	86	101	
890-2515-28	BH-135 8	92	103	
890-2515-29	BH-136 8	92	103	
890-2515-30	BH-137 8	91	104	
890-2515-31	BH-138 8	98	111	
890-2515-32	BH-139 8	92	106	

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Released to Imaging: 9/1/2023 3:11:42 PM

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea 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)	
890-2515-33	BH-140 8	90	103	
890-2515-34	BH-141 8	91	101	
LCS 880-29557/2-A	Lab Control Sample	99	107	
LCS 880-29563/2-A	Lab Control Sample	99	112	
LCSD 880-29557/3-A	Lab Control Sample Dup	101	110	
LCSD 880-29563/3-A	Lab Control Sample Dup	102	113	
MB 880-29557/1-A	Method Blank	94	108	
MB 880-29563/1-A	Method Blank	100	118	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

13

14

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29669/5-A

Matrix: Solid Analysis Batch: 29700 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29669

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.000400		mg/Kg		07/13/22 13:52	07/14/22 11:30	1
Toluene	<0.000400	U	0.000400		mg/Kg		07/13/22 13:52	07/14/22 11:30	
Ethylbenzene	<0.000400	U	0.000400		mg/Kg		07/13/22 13:52	07/14/22 11:30	
m-Xylene & p-Xylene	<0.000800	U	0.000800		mg/Kg		07/13/22 13:52	07/14/22 11:30	
o-Xylene	<0.000400	U	0.000400		mg/Kg		07/13/22 13:52	07/14/22 11:30	
Xylenes, Total	<0.000800	U	0.000800		mg/Kg		07/13/22 13:52	07/14/22 11:30	•

MB MB

MR MR

<0.00200 U

<0.00200 U

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	07/13/22 13:52	07/14/22 11:30	1
1,4-Difluorobenzene (Surr)	77		70 - 130	07/13/22 13:52	07/14/22 11:30	1

RL

0.00200

0.00200

0.00200

0.00400

0.00200

0.00400

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Lab Sample ID: MB 880-29722/5-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Analysis Batch: 29790

Client Sample ID: Method Blank Prep Type: Total/NA

Analyzed

07/15/22 11:11

07/15/22 11:11

07/15/22 11:11

07/15/22 11:11

07/15/22 11:11

07/15/22 11:11

Prepared

07/14/22 09:52

07/14/22 09:52

07/14/22 09:52

07/14/22 09:52

07/14/22 09:52

07/14/22 09:52

Prep Batch: 29722

Dil Fac

1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	07/14/22 09:52	07/15/22 11:11	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/14/22 09:52	07/15/22 11:11	1

Lab Sample ID: LCS 880-29722/1-A

Matrix: Solid

Analysis Batch: 29790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29722

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1075		mg/Kg		107	70 - 130	
Toluene	0.100	0.09814		mg/Kg		98	70 - 130	
Ethylbenzene	0.100	0.08616		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1710		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.09010		mg/Kg		90	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-29722/2-A

Matrix: Solid

Analysis Batch: 29790

Client Sample ID: Lab	Control Sample Dup
	Dren Trees Total/NA

Prep Type: Total/NA

Prep Batch: 29722

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09685		mg/Kg		97	70 - 130	10	35

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-29722/2-A

Matrix: Solid

Analysis Batch: 29790

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29722

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09023		mg/Kg		90	70 - 130	8	35
Ethylbenzene	0.100	0.08012		mg/Kg		80	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1601		mg/Kg		80	70 - 130	7	35
o-Xylene	0.100	0.08531		mg/Kg		85	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: MB 880-29723/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 29700

мв мв

Prep Type: Total/NA

Prep Batch: 29723

Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 07/14/22 09:57 07/15/22 01:08 mg/Kg Toluene <0.00200 U 0.00200 07/14/22 09:57 07/15/22 01:08 mg/Kg Ethylbenzene <0.00200 U 0.00200 07/14/22 09:57 07/15/22 01:08 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 07/14/22 09:57 07/15/22 01:08 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 07/14/22 09:57 07/15/22 01:08 Xylenes, Total <0.00400 U 0.00400 07/14/22 09:57 07/15/22 01:08 mg/Kg

MB MB

Surrogate	%Recovery Qualifi	ier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	70 - 130	07/14/22 09:57	07/15/22 01:08	1
1.4-Difluorobenzene (Surr)	74	70 - 130	07/14/22 09:57	07/15/22 01:08	1

Lab Sample ID: LCS 880-29723/1-A

Matrix: Solid

Analysis Batch: 29700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29723

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07927		mg/Kg		79	70 - 130	
Toluene	0.100	0.08725		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.09476		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1923		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	129		70 - 130		
1.4-Difluorobenzene (Surr)	77		70 ₋ 130		

Lab Sample ID: LCSD 880-29723/2-A

Matrix: Solid

Analysis Batch: 29700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29723

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08406		mg/Kg		84	70 - 130	6	35
Toluene	0.100	0.09646		mg/Kg		96	70 - 130	10	35
Ethylbenzene	0.100	0.09969		mg/Kg		100	70 - 130	5	35

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-29723/2-A **Matrix: Solid**

Analysis Batch: 29700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 29723

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	0.200	0.2043		mg/Kg		102	70 - 130	6	35
o-Xylene	0.100	0.1087		mg/Kg		109	70 - 130	6	35

LCSD LCSD Surrogate %Recovery Qualifier Limits 138 S1+ 4-Bromofluorobenzene (Surr) 70 - 130 1,4-Difluorobenzene (Surr) 78 70 - 130

Lab Sample ID: 890-2515-13 MS Client Sample ID: BH-120 8

Matrix: Solid

Analysis Batch: 29700

Prep Type: Total/NA

Prep Batch: 29723

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1 F2	0.100	0.08436	-	mg/Kg		84	70 - 130	
Toluene	<0.00201	U F1 F2	0.100	0.08782		mg/Kg		88	70 - 130	
Ethylbenzene	<0.00201	U F1 F2	0.100	0.08772		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1196	F1	mg/Kg		60	70 - 130	
o-Xylene	<0.00201	U F1 F2	0.100	0.09763		mg/Kg		97	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: 890-2515-13 MSD Client Sample ID: BH-120 8

Matrix: Solid

Analysis Batch: 29700

Prep Type: Total/NA

Prep Batch: 29723

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1 F2	0.0994	0.05294	F1 F2	mg/Kg		53	70 - 130	46	35
Toluene	<0.00201	U F1 F2	0.0994	0.03890	F1 F2	mg/Kg		39	70 - 130	77	35
Ethylbenzene	<0.00201	U F1 F2	0.0994	0.04605	F1 F2	mg/Kg		46	70 - 130	62	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.199	0.04969	F1 F2	mg/Kg		25	70 - 130	83	35
o-Xylene	<0.00201	U F1 F2	0.0994	0.05486	F1 F2	mg/Kg		55	70 - 130	56	35

MSD MSD

MR MR

Surrogate	%Recovery Qu	aimer Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	91	70 - 130

Lab Sample ID: MB 880-29739/5-A Client Sample ID: Method Blank

Matrix: Solid Analysis Batch: 29790

Prep Type: Total/NA

Prep Batch: 29739

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 10:08	07/15/22 23:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 10:08	07/15/22 23:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 10:08	07/15/22 23:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 10:08	07/15/22 23:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 10:08	07/15/22 23:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 10:08	07/15/22 23:27	1

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	07/14/22 10:08	07/15/22 23:27	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/14/22 10:08	07/15/22 23:27	1

Lab Sample ID: LCS 880-29739/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 29790 Prep Batch: 29739

	Spi	ke LC	S LUS			%Rec	
Analyte	Add	ed Resu	lt Qualifier	Unit D	%Rec	Limits	
Benzene	0.1	0.0915	4	mg/Kg	92	70 - 130	
Toluene	0.1	0.0898	2	mg/Kg	90	70 - 130	
Ethylbenzene	0.1	0.080.0	5	mg/Kg	80	70 - 130	
m-Xylene & p-Xylene	0.2	00 0.160	8	mg/Kg	80	70 - 130	
o-Xylene	0.1	0.0870	1	mg/Kg	87	70 - 130	

Chiles

LCS LCS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 70 - 130 97 1,4-Difluorobenzene (Surr) 98 70 - 130

Lab Sample ID: LCSD 880-29739/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 29739 Analysis Batch: 29790

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07913		mg/Kg		79	70 - 130	15	35
Toluene	0.100	0.08469		mg/Kg		85	70 - 130	6	35
Ethylbenzene	0.100	0.07885		mg/Kg		79	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1600		mg/Kg		80	70 - 130	0	35
o-Xylene	0.100	0.08634		mg/Kg		86	70 - 130	1	35

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 102 1,4-Difluorobenzene (Surr) 96 70 - 130

Lab Sample ID: 890-2515-33 MS Client Sample ID: BH-140 8 **Matrix: Solid**

Analysis Batch: 29790 Prep Batch: 29739 Camania Camania

	Sample	Sample	Бріке	IVIS	MIS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.09282		mg/Kg		92	70 - 130	
Toluene	< 0.00199	U	0.101	0.08759		mg/Kg		87	70 - 130	
Ethylbenzene	< 0.00199	U	0.101	0.07718		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1511		mg/Kg		75	70 - 130	
o-Xylene	< 0.00199	U	0.101	0.08237		mg/Kg		82	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Released to Imaging: 9/1/2023 3:11:42 PM

Eurofins Carlsbad

Prep Type: Total/NA

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2515-33 MSD

Matrix: Solid

Analysis Batch: 29790

Client Sample ID: BH-140 8 Prep Type: Total/NA

Prep Batch: 29739

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.09466		mg/Kg		94	70 - 130	2	35
Toluene	< 0.00199	U	0.100	0.08989		mg/Kg		90	70 - 130	3	35
Ethylbenzene	< 0.00199	U	0.100	0.07866		mg/Kg		79	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1542		mg/Kg		77	70 - 130	2	35
o-Xylene	< 0.00199	U	0.100	0.08371		mg/Kg		84	70 - 130	2	35

RL

0.000400

0.000400

0.000400

0.000800

0.000400

0.000800

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

07/18/22 15:14

07/18/22 15:14

07/18/22 15:14

07/18/22 15:14

07/18/22 15:14

07/18/22 15:14

MSD MSD

MB MB Result Qualifier

<0.000400 U

<0.000400 U

<0.000400 U

<0.000800 U

<0.000800 U

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-29987/5-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Analysis Batch: 30016

Client Sample ID: Method Blank

Analyzed

07/19/22 11:53

07/19/22 11:53

07/19/22 11:53

07/19/22 11:53

07/19/22 11:53

07/19/22 11:53

Prep Type: Total/NA

Prep Batch: 29987

Dil Fac

<0.000400 U

MB MB %Recovery Qualifier Limits Surrogate

70 - 130 4-Bromofluorobenzene (Surr) 87 70 - 130 1,4-Difluorobenzene (Surr) 84

Prepared Dil Fac Analyzed 07/18/22 15:14 07/19/22 11:53 07/18/22 15:14 07/19/22 11:53

Lab Sample ID: LCS 880-29987/1-A

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 29987

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1014		mg/Kg		101	70 - 130	
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1103		mg/Kg		110	70 - 130	
m-Xylene & p-Xylene	0.200	0.2162		mg/Kg		108	70 - 130	
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1,4-Difluorobenzene (Surr)	90	70 - 130

Lab Sample ID: LCSD 880-29987/2-A

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29987

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 0.100 Benzene 0.1075 mg/Kg 108 70 - 130 6 35 Toluene 0.100 0.1084 mg/Kg 108 70 - 130

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-29987/2-A

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29987

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylbenzene	0.100	0.1173		mg/Kg		117	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2293		mg/Kg		115	70 - 130	6	35
o-Xylene	0.100	0.1192		mg/Kg		119	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-17011-A-1-D MS

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 29987

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.0998	0.05315	F1	mg/Kg		53	70 - 130	
Toluene	<0.00200	U F1	0.0998	0.05812	F1	mg/Kg		58	70 - 130	
Ethylbenzene	<0.00200	U F1	0.0998	0.06366	F1	mg/Kg		64	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1212	F1	mg/Kg		61	70 - 130	
o-Xylene	<0.00200	U F1	0.0998	0.06845	F1	mg/Kg		69	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 880-17011-A-1-E MSD

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29987

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.100	0.03929	F1	mg/Kg		39	70 - 130	30	35
Toluene	<0.00200	U F1	0.100	0.04309	F1	mg/Kg		43	70 - 130	30	35
Ethylbenzene	<0.00200	U F1	0.100	0.04664	F1	mg/Kg		47	70 - 130	31	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.08957	F1	mg/Kg		45	70 - 130	30	35
o-Xylene	<0.00200	U F1	0.100	0.05185	F1	mg/Kg		52	70 - 130	28	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	124	70 - 130
1,4-Difluorobenzene (Surr)	80	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-29557/1-A

Analysis Batch: 29499

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 29557

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 50.0 <50.0 U 07/12/22 14:24 07/12/22 19:42 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 07/12/22 14:24 07/12/22 19:42 mg/Kg C10-C28)

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-29557/1-A

Matrix: Solid

Analysis Batch: 29499

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29557

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 19:42	1

мв мв

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94	70 - 130	07/12/22 14:24	07/12/22 19:42	1
o-Terphenyl	108	70 - 130	07/12/22 14:24	07/12/22 19:42	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-29557/2-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 29499 Prep Batch: 29557

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	841.3		mg/Kg		84	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	860.2		mg/Kg		86	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-29557/3-A Client Sample ID: Lab Control Sample Dun **Matrix: Solid**

Analysis Batch: 2949

	.		A/ =	
99			Prep Ba	tch: 29557
			Prep Type	e: Total/NA
D 000-2300110-A		One	in complete. Lab control of	impic Bup

	Spike	LCSD	LUSD			/onec		KFD	
Analyte	Added	Result	Qualifier Uni	t D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	831.8	mg/	Kg	83	70 - 130	1	20	
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	872.7	mg/	Kg	87	70 - 130	1	20	
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-2515-1 MS Client Sample ID: SW34 0-6

Matrix: Solid

Analysis Batch: 29499

Prep Type: Total/NA

Prep Batch: 29557

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F2	996	1008		mg/Kg		98	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	996	849.4		mg/Kg		85	70 - 130	
C10-C28)										

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	79		70 - 130

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2515-1 MSD

Matrix: Solid Analysis Batch: 29499 Client Sample ID: SW34 0-6 Prep Type: Total/NA

Prep Batch: 29557

Sample Sample Spike MSD MSD RPD Result Qualifier Added RPD Limit Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U F2 998 742.9 F2 mg/Kg 72 70 - 130 30 20 (GRO)-C6-C10 998 Diesel Range Organics (Over 860.6 mg/Kg 86 70 - 130 <49.9 U C10-C28)

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0-020)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 81
 70 - 130

 o-Terphenyl
 79
 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29563

Lab Sample ID: MB 880-29563/1-A Matrix: Solid

Matrix. John

Analysis Batch: 29603

мв мв MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac 50.0 07/12/22 15:30 07/13/22 10:27 Gasoline Range Organics <50.0 U mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 07/12/22 15:30 07/13/22 10:27 OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/12/22 15:30 07/13/22 10:27

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	07/12/22 15:30	07/13/22 10:27	1
o-Terphenyl	118		70 - 130	07/12/22 15:30	07/13/22 10:27	1

Lab Sample ID: LCS 880-29563/2-A

Matrix: Solid

Analysis Batch: 29603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29563

LCS LCS Spike %Rec Analyte Added Result Qualifier %Rec Unit D Limits Gasoline Range Organics 1000 877.2 mg/Kg 88 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 913.4 mg/Kg 91 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	112		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-29563/3-A

Analysis Batch: 29603

Prep Type: Total/NA Prep Batch: 29563

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	889.2		mg/Kg		89	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	975.7		mg/Kg		98	70 - 130	7	20
C10-C28)									

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Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-29563/3-A **Matrix: Solid**

Analysis Batch: 29603

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 29563

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 102 70 - 130 o-Terphenyl 113 70 - 130

Lab Sample ID: 890-2515-21 MS Client Sample ID: BH-128 8

Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 29603	Prep Batch: 29563

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 UF1 <49.8 UF1 996 0 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 996 <49.8 U F1 0 mg/Kg 70 - 130C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-2515-21 MSD

Matrix: Solid

Analysis Batch: 29603

MSD			Client Sample ID:	BH-128 8
			Prep Type:	Total/NA
			Prep Bate	:h: 29563
Sample Sample	Spike	MSD MSD	%Rec	RPD

Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics <49.9 U F1 998 <49.9 U F1 mg/Kg 0 70 - 130 NC 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 998 <49.9 UF1 mg/Kg 0 70 - 130 NC 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 80 o-Terphenyl 93 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29402/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29640

7								
	МВ	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/14/22 03:23	1

Lab Sample ID: LCS 880-29402/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29640

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	258.0		mg/Kg		103	90 - 110	

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7/20/2022

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-29402/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29640

Spike LCSD LCSD %Rec RPD Analyte babbA Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 258.0 mg/Kg 103 90 - 110

Lab Sample ID: 890-2515-1 MS Client Sample ID: SW34 0-6 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29640

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	20.4		251	271.0		mg/Kg		100	90 - 110	

Lab Sample ID: 890-2515-1 MSD Client Sample ID: SW34 0-6

Matrix: Solid Prep Type: Soluble

Analysis Batch: 29640

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	20.4		251	271.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-2515-11 MS Client Sample ID: BH-118 10 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29640

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	187		248	437.9		mg/Kg	_	101	90 - 110	

Lab Sample ID: 890-2515-11 MSD Client Sample ID: BH-118 10 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29640

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	187		248	438.6		ma/Ka		101	90 - 110		20

Lab Sample ID: MB 880-29401/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29646

Analyte	Result	Qualifier	RL	MDL Unit	. D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/	Kg		07/14/22 07:05	1

MR MR

Lab Sample ID: LCS 880-29401/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29646

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	257.7	,	mg/Kg		103	90 - 110	

Lab Sample ID: LCSD 880-29401/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29646

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 266.9 mg/Kg 107 90 - 110

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Client Sample ID: BH-128 8

Client Sample ID: BH-128 8

Client Sample ID: BH-138 8

Client Sample ID: BH-138 8

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2515-21 MS

Matrix: Solid

Analysis Batch: 29646

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Chloride 582 252 824.4 mg/Kg 90 - 110

Lab Sample ID: 890-2515-21 MSD

Matrix: Solid

Analysis Batch: 29646

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	582		252	828.8		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 890-2515-31 MS

Matrix: Solid

Analysis Batch: 29646										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	512		250	772.9		mg/Kg		105	90 - 110	

Lab Sample ID: 890-2515-31 MSD

Matrix: Solid

Analysis Batch: 29646

Alialysis Datcil. 23040											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	512		250	779.8		mg/Kg		107	90 - 110	1	20

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA

Prep Batch: 29669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29669/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 29700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-13	BH-120 8	Total/NA	Solid	8021B	29723
890-2515-14	BH-121 8	Total/NA	Solid	8021B	29723
890-2515-15	BH-122 8	Total/NA	Solid	8021B	29723
890-2515-16	BH-123 8	Total/NA	Solid	8021B	29723
890-2515-17	BH-124 8	Total/NA	Solid	8021B	29723
890-2515-18	BH-125 8	Total/NA	Solid	8021B	29723
890-2515-19	BH-126 8	Total/NA	Solid	8021B	29723
890-2515-20	BH-127 8	Total/NA	Solid	8021B	29723
890-2515-21	BH-128 8	Total/NA	Solid	8021B	29723
890-2515-22	BH-129 8	Total/NA	Solid	8021B	29723
890-2515-23	BH-130 8	Total/NA	Solid	8021B	29723
890-2515-24	BH-131 8	Total/NA	Solid	8021B	29723
890-2515-25	BH-132 8	Total/NA	Solid	8021B	29723
890-2515-26	BH-133 8	Total/NA	Solid	8021B	29723
890-2515-27	BH-134 8	Total/NA	Solid	8021B	29723
890-2515-28	BH-135 8	Total/NA	Solid	8021B	29723
890-2515-29	BH-136 8	Total/NA	Solid	8021B	29723
890-2515-30	BH-137 8	Total/NA	Solid	8021B	29723
890-2515-31	BH-138 8	Total/NA	Solid	8021B	29723
890-2515-32	BH-139 8	Total/NA	Solid	8021B	29723
MB 880-29669/5-A	Method Blank	Total/NA	Solid	8021B	29669
MB 880-29723/5-A	Method Blank	Total/NA	Solid	8021B	29723
LCS 880-29723/1-A	Lab Control Sample	Total/NA	Solid	8021B	29723
LCSD 880-29723/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29723
890-2515-13 MS	BH-120 8	Total/NA	Solid	8021B	29723
890-2515-13 MSD	BH-120 8	Total/NA	Solid	8021B	29723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-1	SW34 0-6	Total/NA	Solid	5035	
890-2515-2	SW35 0-6	Total/NA	Solid	5035	
890-2515-3	SW36 0-6	Total/NA	Solid	5035	
890-2515-4	SW37 0-6	Total/NA	Solid	5035	
890-2515-5	BH-106 6	Total/NA	Solid	5035	
890-2515-6	BH-108 6	Total/NA	Solid	5035	
890-2515-7	BH-114 10	Total/NA	Solid	5035	
890-2515-8	BH-115 10	Total/NA	Solid	5035	
890-2515-9	BH-116 10	Total/NA	Solid	5035	
890-2515-10	BH-117 10	Total/NA	Solid	5035	
890-2515-12	BH-119 8	Total/NA	Solid	5035	
MB 880-29722/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29722/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29722/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 29723

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-13	BH-120 8	Total/NA	Solid	5035	

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7/20/2022

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 29723 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2515-14	BH-121 8	Total/NA	Solid	5035	
890-2515-15	BH-122 8	Total/NA	Solid	5035	
890-2515-16	BH-123 8	Total/NA	Solid	5035	
890-2515-17	BH-124 8	Total/NA	Solid	5035	
890-2515-18	BH-125 8	Total/NA	Solid	5035	
890-2515-19	BH-126 8	Total/NA	Solid	5035	
890-2515-20	BH-127 8	Total/NA	Solid	5035	
890-2515-21	BH-128 8	Total/NA	Solid	5035	
890-2515-22	BH-129 8	Total/NA	Solid	5035	
890-2515-23	BH-130 8	Total/NA	Solid	5035	
890-2515-24	BH-131 8	Total/NA	Solid	5035	
890-2515-25	BH-132 8	Total/NA	Solid	5035	
890-2515-26	BH-133 8	Total/NA	Solid	5035	
890-2515-27	BH-134 8	Total/NA	Solid	5035	
890-2515-28	BH-135 8	Total/NA	Solid	5035	
890-2515-29	BH-136 8	Total/NA	Solid	5035	
890-2515-30	BH-137 8	Total/NA	Solid	5035	
890-2515-31	BH-138 8	Total/NA	Solid	5035	
890-2515-32	BH-139 8	Total/NA	Solid	5035	
MB 880-29723/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29723/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29723/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2515-13 MS	BH-120 8	Total/NA	Solid	5035	
890-2515-13 MSD	BH-120 8	Total/NA	Solid	5035	

Prep Batch: 29739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-33	BH-140 8	Total/NA	Solid	5035	
890-2515-34	BH-141 8	Total/NA	Solid	5035	
MB 880-29739/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29739/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29739/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2515-33 MS	BH-140 8	Total/NA	Solid	5035	
890-2515-33 MSD	BH-140 8	Total/NA	Solid	5035	

Analysis Batch: 29790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-1	SW34 0-6	Total/NA	Solid	8021B	29722
890-2515-2	SW35 0-6	Total/NA	Solid	8021B	29722
890-2515-3	SW36 0-6	Total/NA	Solid	8021B	29722
890-2515-4	SW37 0-6	Total/NA	Solid	8021B	29722
890-2515-5	BH-106 6	Total/NA	Solid	8021B	29722
890-2515-6	BH-108 6	Total/NA	Solid	8021B	29722
890-2515-7	BH-114 10	Total/NA	Solid	8021B	29722
890-2515-8	BH-115 10	Total/NA	Solid	8021B	29722
890-2515-9	BH-116 10	Total/NA	Solid	8021B	29722
890-2515-10	BH-117 10	Total/NA	Solid	8021B	29722
890-2515-12	BH-119 8	Total/NA	Solid	8021B	29722
890-2515-33	BH-140 8	Total/NA	Solid	8021B	29739
890-2515-34	BH-141 8	Total/NA	Solid	8021B	29739
MB 880-29722/5-A	Method Blank	Total/NA	Solid	8021B	29722

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2515-1

SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 29790 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29739/5-A	Method Blank	Total/NA	Solid	8021B	29739
LCS 880-29722/1-A	Lab Control Sample	Total/NA	Solid	8021B	29722
LCS 880-29739/1-A	Lab Control Sample	Total/NA	Solid	8021B	29739
LCSD 880-29722/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29722
LCSD 880-29739/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29739
890-2515-33 MS	BH-140 8	Total/NA	Solid	8021B	29739
890-2515-33 MSD	BH-140 8	Total/NA	Solid	8021B	29739

Analysis Batch: 29793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-1	SW34 0-6	Total/NA	Solid	Total BTEX	
890-2515-2	SW35 0-6	Total/NA	Solid	Total BTEX	
890-2515-3	SW36 0-6	Total/NA	Solid	Total BTEX	
890-2515-4	SW37 0-6	Total/NA	Solid	Total BTEX	
890-2515-5	BH-106 6	Total/NA	Solid	Total BTEX	
890-2515-6	BH-108 6	Total/NA	Solid	Total BTEX	
890-2515-7	BH-114 10	Total/NA	Solid	Total BTEX	
890-2515-8	BH-115 10	Total/NA	Solid	Total BTEX	
890-2515-9	BH-116 10	Total/NA	Solid	Total BTEX	
890-2515-10	BH-117 10	Total/NA	Solid	Total BTEX	
890-2515-11	BH-118 10	Total/NA	Solid	Total BTEX	
890-2515-12	BH-119 8	Total/NA	Solid	Total BTEX	
890-2515-13	BH-120 8	Total/NA	Solid	Total BTEX	
890-2515-14	BH-121 8	Total/NA	Solid	Total BTEX	
890-2515-15	BH-122 8	Total/NA	Solid	Total BTEX	
890-2515-16	BH-123 8	Total/NA	Solid	Total BTEX	
890-2515-17	BH-124 8	Total/NA	Solid	Total BTEX	
890-2515-18	BH-125 8	Total/NA	Solid	Total BTEX	
890-2515-19	BH-126 8	Total/NA	Solid	Total BTEX	
890-2515-20	BH-127 8	Total/NA	Solid	Total BTEX	
890-2515-21	BH-128 8	Total/NA	Solid	Total BTEX	
890-2515-22	BH-129 8	Total/NA	Solid	Total BTEX	
890-2515-23	BH-130 8	Total/NA	Solid	Total BTEX	
890-2515-24	BH-131 8	Total/NA	Solid	Total BTEX	
890-2515-25	BH-132 8	Total/NA	Solid	Total BTEX	
890-2515-26	BH-133 8	Total/NA	Solid	Total BTEX	
890-2515-27	BH-134 8	Total/NA	Solid	Total BTEX	
890-2515-28	BH-135 8	Total/NA	Solid	Total BTEX	
890-2515-29	BH-136 8	Total/NA	Solid	Total BTEX	
890-2515-30	BH-137 8	Total/NA	Solid	Total BTEX	
890-2515-31	BH-138 8	Total/NA	Solid	Total BTEX	
890-2515-32	BH-139 8	Total/NA	Solid	Total BTEX	
890-2515-33	BH-140 8	Total/NA	Solid	Total BTEX	
890-2515-34	BH-141 8	Total/NA	Solid	Total BTEX	

Prep Batch: 29987

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-11	BH-118 10	Total/NA	Solid	5035	
MB 880-29987/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29987/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29987/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 29987 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17011-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-17011-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 30016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-11	BH-118 10	Total/NA	Solid	8021B	29987
MB 880-29987/5-A	Method Blank	Total/NA	Solid	8021B	29987
LCS 880-29987/1-A	Lab Control Sample	Total/NA	Solid	8021B	29987
LCSD 880-29987/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29987
880-17011-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	29987
880-17011-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29987

GC Semi VOA

Analysis Batch: 29499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-1	SW34 0-6	Total/NA	Solid	8015B NM	29557
890-2515-2	SW35 0-6	Total/NA	Solid	8015B NM	29557
890-2515-3	SW36 0-6	Total/NA	Solid	8015B NM	29557
890-2515-4	SW37 0-6	Total/NA	Solid	8015B NM	29557
890-2515-5	BH-106 6	Total/NA	Solid	8015B NM	29557
890-2515-6	BH-108 6	Total/NA	Solid	8015B NM	29557
890-2515-7	BH-114 10	Total/NA	Solid	8015B NM	29557
890-2515-8	BH-115 10	Total/NA	Solid	8015B NM	29557
890-2515-9	BH-116 10	Total/NA	Solid	8015B NM	29557
890-2515-10	BH-117 10	Total/NA	Solid	8015B NM	29557
890-2515-11	BH-118 10	Total/NA	Solid	8015B NM	29557
890-2515-12	BH-119 8	Total/NA	Solid	8015B NM	29557
890-2515-13	BH-120 8	Total/NA	Solid	8015B NM	29557
390-2515-14	BH-121 8	Total/NA	Solid	8015B NM	29557
890-2515-15	BH-122 8	Total/NA	Solid	8015B NM	29557
890-2515-16	BH-123 8	Total/NA	Solid	8015B NM	29557
890-2515-17	BH-124 8	Total/NA	Solid	8015B NM	29557
890-2515-18	BH-125 8	Total/NA	Solid	8015B NM	29557
890-2515-19	BH-126 8	Total/NA	Solid	8015B NM	29557
890-2515-20	BH-127 8	Total/NA	Solid	8015B NM	29557
MB 880-29557/1-A	Method Blank	Total/NA	Solid	8015B NM	29557
LCS 880-29557/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29557
LCSD 880-29557/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29557
890-2515-1 MS	SW34 0-6	Total/NA	Solid	8015B NM	29557
890-2515-1 MSD	SW34 0-6	Total/NA	Solid	8015B NM	29557

Prep Batch: 29557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-1	SW34 0-6	Total/NA	Solid	8015NM Prep	
890-2515-2	SW35 0-6	Total/NA	Solid	8015NM Prep	
890-2515-3	SW36 0-6	Total/NA	Solid	8015NM Prep	
890-2515-4	SW37 0-6	Total/NA	Solid	8015NM Prep	
890-2515-5	BH-106 6	Total/NA	Solid	8015NM Prep	
890-2515-6	BH-108 6	Total/NA	Solid	8015NM Prep	
890-2515-7	BH-114 10	Total/NA	Solid	8015NM Prep	

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 29557 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-8	BH-115 10	Total/NA	Solid	8015NM Prep	
890-2515-9	BH-116 10	Total/NA	Solid	8015NM Prep	
890-2515-10	BH-117 10	Total/NA	Solid	8015NM Prep	
890-2515-11	BH-118 10	Total/NA	Solid	8015NM Prep	
890-2515-12	BH-119 8	Total/NA	Solid	8015NM Prep	
890-2515-13	BH-120 8	Total/NA	Solid	8015NM Prep	
90-2515-14 BH-121 8		Total/NA	Solid	8015NM Prep	
90-2515-15 BH-122 8		Total/NA	Solid	8015NM Prep	
890-2515-16	BH-123 8	Total/NA	Solid	8015NM Prep	
890-2515-17	BH-124 8	Total/NA	Solid	8015NM Prep	
890-2515-18	BH-125 8	Total/NA	Solid	8015NM Prep	
890-2515-19	BH-126 8	Total/NA	Solid	8015NM Prep	
890-2515-20	BH-127 8	Total/NA	Solid	8015NM Prep	
MB 880-29557/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29557/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29557/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2515-1 MS	SW34 0-6	Total/NA	Solid	8015NM Prep	
890-2515-1 MSD	SW34 0-6	Total/NA	Solid	8015NM Prep	

Prep Batch: 29563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2515-21	BH-128 8	Total/NA	Solid	8015NM Prep	
890-2515-22	BH-129 8	Total/NA	Solid	8015NM Prep	
890-2515-23	BH-130 8	Total/NA	Solid	8015NM Prep	
890-2515-24	BH-131 8	Total/NA	Solid	8015NM Prep	
890-2515-25	BH-132 8	Total/NA	Solid	8015NM Prep	
890-2515-26	BH-133 8	Total/NA	Solid	8015NM Prep	
890-2515-27	BH-134 8	Total/NA	Solid	8015NM Prep	
890-2515-28	BH-135 8	Total/NA	Solid	8015NM Prep	
890-2515-29	BH-136 8	Total/NA	Solid	8015NM Prep	
890-2515-30	BH-137 8	Total/NA	Solid	8015NM Prep	
890-2515-31	BH-138 8	Total/NA	Solid	8015NM Prep	
890-2515-32	BH-139 8	Total/NA	Solid	8015NM Prep	
890-2515-33	BH-140 8	Total/NA	Solid	8015NM Prep	
890-2515-34	BH-141 8	Total/NA	Solid	8015NM Prep	
MB 880-29563/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29563/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29563/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2515-21 MS	BH-128 8	Total/NA	Solid	8015NM Prep	
890-2515-21 MSD	BH-128 8	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-21	BH-128 8	Total/NA	Solid	8015B NM	29563
890-2515-22	BH-129 8	Total/NA	Solid	8015B NM	29563
890-2515-23	BH-130 8	Total/NA	Solid	8015B NM	29563
890-2515-24	BH-131 8	Total/NA	Solid	8015B NM	29563
890-2515-25	BH-132 8	Total/NA	Solid	8015B NM	29563
890-2515-26	BH-133 8	Total/NA	Solid	8015B NM	29563
890-2515-27	BH-134 8	Total/NA	Solid	8015B NM	29563
890-2515-28	BH-135 8	Total/NA	Solid	8015B NM	29563

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 29603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-29	BH-136 8	Total/NA	Solid	8015B NM	29563
890-2515-30	BH-137 8	Total/NA	Solid	8015B NM	29563
890-2515-31	BH-138 8	Total/NA	Solid	8015B NM	29563
890-2515-32	BH-139 8	Total/NA	Solid	8015B NM	29563
890-2515-33	BH-140 8	Total/NA	Solid	8015B NM	29563
890-2515-34	BH-141 8	Total/NA	Solid	8015B NM	29563
MB 880-29563/1-A	Method Blank	Total/NA	Solid	8015B NM	29563
LCS 880-29563/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29563
LCSD 880-29563/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29563
890-2515-21 MS	BH-128 8	Total/NA	Solid	8015B NM	29563
890-2515-21 MSD	BH-128 8	Total/NA	Solid	8015B NM	29563

Analysis Batch: 29634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2515-1	SW34 0-6	Total/NA	Solid	8015 NM	
890-2515-2	SW35 0-6	Total/NA	Solid	8015 NM	
890-2515-3	SW36 0-6	Total/NA	Solid	8015 NM	
890-2515-4	SW37 0-6	Total/NA	Solid	8015 NM	
890-2515-5	BH-106 6	Total/NA	Solid	8015 NM	
890-2515-6	BH-108 6	Total/NA	Solid	8015 NM	
890-2515-7	BH-114 10	Total/NA	Solid	8015 NM	
890-2515-8	BH-115 10	Total/NA	Solid	8015 NM	
890-2515-9	BH-116 10	Total/NA	Solid	8015 NM	
890-2515-10	BH-117 10	Total/NA	Solid	8015 NM	
890-2515-11	BH-118 10	Total/NA	Solid	8015 NM	
890-2515-12	BH-119 8	Total/NA	Solid	8015 NM	
890-2515-13	BH-120 8	Total/NA	Solid	8015 NM	
890-2515-14	BH-121 8	Total/NA	Solid	8015 NM	
890-2515-15	BH-122 8	Total/NA	Solid	8015 NM	
890-2515-16	BH-123 8	Total/NA	Solid	8015 NM	
890-2515-17	BH-124 8	Total/NA	Solid	8015 NM	
890-2515-18	BH-125 8	Total/NA	Solid	8015 NM	
890-2515-19	BH-126 8	Total/NA	Solid	8015 NM	
890-2515-20	BH-127 8	Total/NA	Solid	8015 NM	
890-2515-21	BH-128 8	Total/NA	Solid	8015 NM	
890-2515-22	BH-129 8	Total/NA	Solid	8015 NM	
890-2515-23	BH-130 8	Total/NA	Solid	8015 NM	
890-2515-24	BH-131 8	Total/NA	Solid	8015 NM	
890-2515-25	BH-132 8	Total/NA	Solid	8015 NM	
890-2515-26	BH-133 8	Total/NA	Solid	8015 NM	
890-2515-27	BH-134 8	Total/NA	Solid	8015 NM	
890-2515-28	BH-135 8	Total/NA	Solid	8015 NM	
890-2515-29	BH-136 8	Total/NA	Solid	8015 NM	
890-2515-30	BH-137 8	Total/NA	Solid	8015 NM	
890-2515-31	BH-138 8	Total/NA	Solid	8015 NM	
890-2515-32	BH-139 8	Total/NA	Solid	8015 NM	
890-2515-33	BH-140 8	Total/NA	Solid	8015 NM	
890-2515-34	BH-141 8	Total/NA	Solid	8015 NM	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2515-1

SDG: Lea County NM

HPLC/IC

Leach Batch: 29401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-21	BH-128 8	Soluble	Solid	DI Leach	
890-2515-22	BH-129 8	Soluble	Solid	DI Leach	
890-2515-23	BH-130 8	Soluble	Solid	DI Leach	
890-2515-24	BH-131 8	Soluble	Solid	DI Leach	
890-2515-25	BH-132 8	Soluble	Solid	DI Leach	
890-2515-26	BH-133 8	Soluble	Solid	DI Leach	
890-2515-27	BH-134 8	Soluble	Solid	DI Leach	
890-2515-28	BH-135 8	Soluble	Solid	DI Leach	
890-2515-29	BH-136 8	Soluble	Solid	DI Leach	
890-2515-30	BH-137 8	Soluble	Solid	DI Leach	
890-2515-31	BH-138 8	Soluble	Solid	DI Leach	
890-2515-32	BH-139 8	Soluble	Solid	DI Leach	
890-2515-33	BH-140 8	Soluble	Solid	DI Leach	
890-2515-34	BH-141 8	Soluble	Solid	DI Leach	
MB 880-29401/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29401/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29401/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2515-21 MS	BH-128 8	Soluble	Solid	DI Leach	
890-2515-21 MSD	BH-128 8	Soluble	Solid	DI Leach	
890-2515-31 MS	BH-138 8	Soluble	Solid	DI Leach	
890-2515-31 MSD	BH-138 8	Soluble	Solid	DI Leach	

Leach Batch: 29402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2515-1	SW34 0-6	Soluble	Solid	DI Leach	_
390-2515-2	SW35 0-6	Soluble	Solid	DI Leach	
390-2515-3	SW36 0-6	Soluble	Solid	DI Leach	
390-2515-4	SW37 0-6	Soluble	Solid	DI Leach	
390-2515-5	BH-106 6	Soluble	Solid	DI Leach	
390-2515-6	BH-108 6	Soluble	Solid	DI Leach	
390-2515-7	BH-114 10	Soluble	Solid	DI Leach	
390-2515-8	BH-115 10	Soluble	Solid	DI Leach	
390-2515-9	BH-116 10	Soluble	Solid	DI Leach	
390-2515-10	BH-117 10	Soluble	Solid	DI Leach	
390-2515-11	BH-118 10	Soluble	Solid	DI Leach	
390-2515-12	BH-119 8	Soluble	Solid	DI Leach	
90-2515-13	BH-120 8	Soluble	Solid	DI Leach	
390-2515-14	BH-121 8	Soluble	Solid	DI Leach	
390-2515-15	BH-122 8	Soluble	Solid	DI Leach	
390-2515-16	BH-123 8	Soluble	Solid	DI Leach	
390-2515-17	BH-124 8	Soluble	Solid	DI Leach	
390-2515-18	BH-125 8	Soluble	Solid	DI Leach	
390-2515-19	BH-126 8	Soluble	Solid	DI Leach	
390-2515-20	BH-127 8	Soluble	Solid	DI Leach	
MB 880-29402/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-29402/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
.CSD 880-29402/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2515-1 MS	SW34 0-6	Soluble	Solid	DI Leach	
390-2515-1 MSD	SW34 0-6	Soluble	Solid	DI Leach	
390-2515-11 MS	BH-118 10	Soluble	Solid	DI Leach	
390-2515-11 MSD	BH-118 10	Soluble	Solid	DI Leach	

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Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

HPLC/IC

Analysis Batch: 29640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-1	SW34 0-6	Soluble	Solid	300.0	29402
890-2515-2	SW35 0-6	Soluble	Solid	300.0	29402
890-2515-3	SW36 0-6	Soluble	Solid	300.0	29402
890-2515-4	SW37 0-6	Soluble	Solid	300.0	29402
890-2515-5	BH-106 6	Soluble	Solid	300.0	29402
890-2515-6	BH-108 6	Soluble	Solid	300.0	29402
890-2515-7	BH-114 10	Soluble	Solid	300.0	29402
890-2515-8	BH-115 10	Soluble	Solid	300.0	29402
890-2515-9	BH-116 10	Soluble	Solid	300.0	29402
890-2515-10	BH-117 10	Soluble	Solid	300.0	29402
890-2515-11	BH-118 10	Soluble	Solid	300.0	29402
890-2515-12	BH-119 8	Soluble	Solid	300.0	29402
890-2515-13	BH-120 8	Soluble	Solid	300.0	29402
890-2515-14	BH-121 8	Soluble	Solid	300.0	29402
890-2515-15	BH-122 8	Soluble	Solid	300.0	29402
890-2515-16	BH-123 8	Soluble	Solid	300.0	29402
890-2515-17	BH-124 8	Soluble	Solid	300.0	29402
890-2515-18	BH-125 8	Soluble	Solid	300.0	29402
890-2515-19	BH-126 8	Soluble	Solid	300.0	29402
890-2515-20	BH-127 8	Soluble	Solid	300.0	29402
MB 880-29402/1-A	Method Blank	Soluble	Solid	300.0	29402
LCS 880-29402/2-A	Lab Control Sample	Soluble	Solid	300.0	29402
LCSD 880-29402/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29402
890-2515-1 MS	SW34 0-6	Soluble	Solid	300.0	29402
890-2515-1 MSD	SW34 0-6	Soluble	Solid	300.0	29402
890-2515-11 MS	BH-118 10	Soluble	Solid	300.0	29402
890-2515-11 MSD	BH-118 10	Soluble	Solid	300.0	29402

Analysis Batch: 29646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-21	BH-128 8	Soluble	Solid	300.0	29401
890-2515-22	BH-129 8	Soluble	Solid	300.0	29401
890-2515-23	BH-130 8	Soluble	Solid	300.0	29401
890-2515-24	BH-131 8	Soluble	Solid	300.0	29401
890-2515-25	BH-132 8	Soluble	Solid	300.0	29401
890-2515-26	BH-133 8	Soluble	Solid	300.0	29401
890-2515-27	BH-134 8	Soluble	Solid	300.0	29401
890-2515-28	BH-135 8	Soluble	Solid	300.0	29401
890-2515-29	BH-136 8	Soluble	Solid	300.0	29401
890-2515-30	BH-137 8	Soluble	Solid	300.0	29401
890-2515-31	BH-138 8	Soluble	Solid	300.0	29401
890-2515-32	BH-139 8	Soluble	Solid	300.0	29401
890-2515-33	BH-140 8	Soluble	Solid	300.0	29401
890-2515-34	BH-141 8	Soluble	Solid	300.0	29401
MB 880-29401/1-A	Method Blank	Soluble	Solid	300.0	29401
LCS 880-29401/2-A	Lab Control Sample	Soluble	Solid	300.0	29401
LCSD 880-29401/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29401
890-2515-21 MS	BH-128 8	Soluble	Solid	300.0	29401
890-2515-21 MSD	BH-128 8	Soluble	Solid	300.0	29401
890-2515-31 MS	BH-138 8	Soluble	Solid	300.0	29401
890-2515-31 MSD	BH-138 8	Soluble	Solid	300.0	29401

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW34 0-6

Date Received: 07/08/22 16:08

Lab Sample ID: 890-2515-1 Date Collected: 07/06/22 00:00 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 12:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 20:46	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 03:51	CH	XEN MID

Client Sample ID: SW35 0-6 Lab Sample ID: 890-2515-2

Date Collected: 07/06/22 00:00 Matrix: Solid

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 13:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 21:50	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 04:18	CH	XEN MID

Client Sample ID: SW36 0-6 Lab Sample ID: 890-2515-3 Date Collected: 07/06/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 17:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 22:11	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 04:27	CH	XEN MID

Client Sample ID: SW37 0-6 Lab Sample ID: 890-2515-4 Date Collected: 07/06/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

	D-4-b	Datab		D:I	1 141 - 1	Final	D-4-b	Dan and		
Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA		5035				5 mL	29722	07/14/22 09:52	EL	_ XEN MID
	Prep				5.02 g					
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 16:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID

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Job ID: 890-2515-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2515-4

Client Sample ID: SW37 0-6 Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 22:33	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 04:37	CH	XEN MID

Lab Sample ID: 890-2515-5

Client Sample ID: BH-106 6 Date Collected: 07/06/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 18:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 22:54	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 04:46	CH	XEN MID

Client Sample ID: BH-108 6 Lab Sample ID: 890-2515-6

Date Collected: 07/06/22 00:00 **Matrix: Solid** Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 18:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 23:16	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 08:00	CH	XEN MID

Client Sample ID: BH-114 10 Lab Sample ID: 890-2515-7

Date Collected: 07/06/22 00:00 **Matrix: Solid** Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	29790	07/15/22 19:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	29557 29499	07/12/22 14:24 07/13/22 04:16	DM SM	XEN MID XEN MID

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-114 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Lab Sample ID: 890-2515-7

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 08:09	CH	XEN MID

Client Sample ID: BH-115 10 Lab Sample ID: 890-2515-8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	29790	07/15/22 19:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 04:38	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 08:18	CH	XEN MID

Client Sample ID: BH-116 10 Lab Sample ID: 890-2515-9

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	29790	07/15/22 20:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 03:54	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 08:28	CH	XEN MID

Client Sample ID: BH-117 10 Lab Sample ID: 890-2515-10 Date Collected: 07/06/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	29790	07/15/22 20:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 02:50	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 08:37	CH	XEN MID

Job ID: 890-2515-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-118 10 Lab Sample ID: 890-2515-11

Date Collected: 07/06/22 00:00 **Matrix: Solid** Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29987	07/18/22 15:14	MR	XEN MID
Total/NA	Analysis	8021B		50			30016	07/19/22 16:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		5			29499	07/13/22 03:12	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 08:46	CH	XEN MID

Client Sample ID: BH-119 8 Lab Sample ID: 890-2515-12 Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 29722 Total/NA 5.00 g 5 mL 07/14/22 09:52 EL XEN MID Total/NA 8021B 5 mL 07/15/22 18:59 XEN MID Analysis 1 5 mL 29790 MR Total/NA Total BTEX 29793 07/15/22 08:13 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 29634 07/13/22 09:51 SM XEN MID Total/NA 29557 XEN MID Prep 8015NM Prep 10.01 g 07/12/22 14:24 DM 10 mL Total/NA Analysis 8015B NM 5 29499 07/13/22 03:33 SM XEN MID 07/11/22 09:13 Soluble XEN MID Leach DI Leach 4.99 g 50 mL 29402 KS Soluble Analysis 300.0 5 29640 07/14/22 09:14 CH XEN MID

Lab Sample ID: 890-2515-13 Client Sample ID: BH-120 8 Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 01:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 23:37	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		5			29640	07/14/22 09:23	CH	XEN MID

Client Sample ID: BH-121 8 Lab Sample ID: 890-2515-14 Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Released to Imaging: 9/1/2023 3:11:42 PM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 02:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID

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Matrix: Solid

Matrix: Solid

Matrix: Solid

Job ID: 890-2515-1 SDG: Lea County NM

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

SDG: Lea C

Client Sample ID: BH-121 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Lab Sample ID: 890-2515-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 23:59	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		20			29640	07/14/22 18:25	CH	XEN MID

Client Sample ID: BH-122 8

Date Collected: 07/06/22 00:00

Lab Sample ID: 890-2515-15

Matrix: Solid

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 02:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 00:20	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		5			29640	07/14/22 18:34	CH	XEN MID

Client Sample ID: BH-123 8

Date Collected: 07/06/22 00:00

Lab Sample ID: 890-2515-16

Matrix: Solid

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 02:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 00:41	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 18:43	CH	XEN MID

Client Sample ID: BH-124 8 Lab Sample ID: 890-2515-17

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Released to Imaging: 9/1/2023 3:11:42 PM

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 03:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	29557 29499	07/12/22 14:24 07/13/22 01:24	DM SM	XEN MID XEN MID

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Matrix: Solid

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7/20/2022

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1 SDG: Lea County NM

Lab Sample ID: 890-2515-17

Matrix: Solid

Client Sample ID: BH-124 8 Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 18:52	CH	XEN MID

Client Sample ID: BH-125 8 Lab Sample ID: 890-2515-18

Date Collected: 07/06/22 00:00 Matrix: Solid

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 03:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 01:46	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		5			29640	07/14/22 19:02	CH	XEN MID

Client Sample ID: BH-126 8 Lab Sample ID: 890-2515-19

Date Collected: 07/07/22 00:00 Matrix: Solid
Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 04:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 02:07	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		20			29640	07/14/22 19:11	CH	XEN MID

Client Sample ID: BH-127 8 Lab Sample ID: 890-2515-20

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 04:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 02:29	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		5			29640	07/14/22 19:20	CH	XEN MID

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Matrix: Solid

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-128 8 Lab Sample ID: 890-2515-21

Matrix: Solid

07/11/22 09:10

07/14/22 07:52

KS

CH

XEN MID

XEN MID

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 05:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 11:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 07:28	CH	XEN MID

Client Sample ID: BH-129 8 Lab Sample ID: 890-2515-22

Date Collected: 07/07/22 00:00 **Matrix: Solid** Date Received: 07/08/22 16:08

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 29723 Total/NA 4.98 g 07/14/22 09:57 EL XEN MID 5 mL Total/NA 8021B 29700 07/15/22 05:32 XEN MID Analysis 1 MR Total/NA Total BTEX 29793 07/15/22 08:13 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 29634 07/13/22 09:51 SM XEN MID Total/NA 29563 XEN MID Prep 8015NM Prep 10.01 g 07/12/22 15:30 DM 10 mL Total/NA Analysis 8015B NM 29603 07/13/22 12:36 AJ XEN MID

Client Sample ID: BH-130 8 Lab Sample ID: 890-2515-23

5.05 g

50 mL

29401

29646

Date Collected: 07/07/22 00:00 **Matrix: Solid** Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 07:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 12:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 08:00	CH	XEN MID

Lab Sample ID: 890-2515-24 Client Sample ID: BH-131 8

Date Collected: 07/07/22 00:00 **Matrix: Solid** Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 07:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID

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Soluble

Soluble

Leach

Analysis

DI Leach

300.0

XEN MID

XEN MID

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-131 8

Lab Sample ID: 890-2515-24 Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Matrix: Solid

KS

CH

07/11/22 09:10

07/14/22 08:07

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM Analysis 29634 07/13/22 09:51 SM XEN MID Total/NA Prep 8015NM Prep 10.03 g 10 mL 29563 07/12/22 15:30 DM XEN MID Total/NA Analysis 8015B NM 29603 07/13/22 13:20 ΑJ XEN MID 1

Client Sample ID: BH-132 8 Lab Sample ID: 890-2515-25

1

Date Collected: 07/06/22 00:00 **Matrix: Solid**

5 g

29401

29646

50 mL

Date Received: 07/08/22 16:08

Leach

Analysis

DI Leach

300.0

Soluble

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 08:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 13:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 08:15	CH	XEN MID

Client Sample ID: BH-133 8 Lab Sample ID: 890-2515-26 Date Collected: 07/06/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 08:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 14:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 08:39	CH	XEN MID

Client Sample ID: BH-134 8 Lab Sample ID: 890-2515-27

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

=	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 09:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 14:24	AJ	XEN MID

Eurofins Carlsbad

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-134 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08 Lab Sample ID: 890-2515-27

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 08:47	CH	XEN MID

Client Sample ID: BH-135 8 Lab Sample ID: 890-2515-28

Date Collected: 07/07/22 00:00 Matrix: Solid

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 09:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 14:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 10:01	CH	XEN MID

Client Sample ID: BH-136 8 Lab Sample ID: 890-2515-29

Date Collected: 07/07/22 00:00 Matrix: Solid
Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 10:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 15:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 10:09	CH	XEN MID

Client Sample ID: BH-137 8 Lab Sample ID: 890-2515-30

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 10:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 15:28	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 10:17	CH	XEN MID

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Matrix: Solid

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Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-138 8

Lab Sample ID: 890-2515-31 Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 4.99 g 5 mL 29723 07/14/22 09:57 EL XEN MID 8021B Total/NA Analysis 1 29700 07/15/22 11:01 MR XEN MID Total/NA Analysis Total BTEX 29793 07/15/22 08:13 ΑJ XEN MID 1 Total/NA 8015 NM 29634 XEN MID Analysis 1 07/13/22 09:51 SM Total/NA 8015NM Prep 29563 07/12/22 15:30 XEN MID Prep 10.00 g 10 mL DM Total/NA Analysis 8015B NM 29603 07/13/22 16:11 AJ XEN MID Soluble DI Leach 5.01 g 50 mL 29401 07/11/22 09:10 KS XEN MID Leach Soluble Analysis 300.0 29646 07/14/22 10:25 CH XEN MID

Client Sample ID: BH-139 8 Lab Sample ID: 890-2515-32

Date Collected: 07/07/22 00:00 **Matrix: Solid** Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 11:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 16:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		5			29646	07/14/22 15:23	CH	XEN MID

Client Sample ID: BH-140 8 Lab Sample ID: 890-2515-33 **Matrix: Solid**

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29739	07/14/22 10:08	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 23:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 16:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29401	07/11/22 09:10	KS	XEN MIC
Soluble	Analysis	300.0		1			29646	07/14/22 15:31	CH	XEN MID

Client Sample ID: BH-141 8 Lab Sample ID: 890-2515-34 Date Collected: 07/07/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	29739	07/14/22 10:08	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/16/22 00:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-141 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08 Lab Sample ID: 890-2515-34 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 17:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		5			29646	07/14/22 15:55	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-24	06-30-23
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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2515-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2515-1	SW34 0-6	Solid	07/06/22 00:00	07/08/22 16:08	0 - 6
890-2515-2	SW35 0-6	Solid	07/06/22 00:00	07/08/22 16:08	0 - 6
890-2515-3	SW36 0-6	Solid	07/06/22 00:00	07/08/22 16:08	0 - 6
890-2515-4	SW37 0-6	Solid	07/06/22 00:00	07/08/22 16:08	0 - 6
890-2515-5	BH-106 6	Solid	07/06/22 00:00	07/08/22 16:08	6
890-2515-6	BH-108 6	Solid	07/06/22 00:00	07/08/22 16:08	6
890-2515-7	BH-114 10	Solid	07/06/22 00:00	07/08/22 16:08	10
890-2515-8	BH-115 10	Solid	07/06/22 00:00	07/08/22 16:08	10
890-2515-9	BH-116 10	Solid	07/06/22 00:00	07/08/22 16:08	10
890-2515-10	BH-117 10	Solid	07/06/22 00:00	07/08/22 16:08	10
890-2515-11	BH-118 10	Solid	07/06/22 00:00	07/08/22 16:08	10
890-2515-12	BH-119 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-13	BH-120 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-14	BH-121 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-15	BH-122 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-16	BH-123 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-17	BH-124 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-18	BH-125 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-19	BH-126 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-20	BH-127 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-21	BH-128 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-22	BH-129 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-23	BH-130 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-24	BH-131 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-25	BH-132 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-26	BH-133 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-27	BH-134 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-28	BH-135 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-29	BH-136 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-30	BH-137 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-31	BH-138 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-32	BH-139 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-33	BH-140 8	Solid	07/06/22 00:00	07/08/22 16:08	8

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Analysis Request of Chain of Custody Record opect Location LAB # 4 BH-117 (107) BH-115 (107) BH-114 (10") 514-37 10-67 SVV-36 (0-6) 56 35 (0.6) SW-34 (0-6) 3-106 (6) H 102 (6) **Eurofins Xenco** Lea County, NM Permian Water Solutions Permian Water Solutions - Dusty Mointurff Kaiser SWD SAMPLE IDENTIFICATION Tetra Tech, Inc. 1609 ORIGINAL COPY F 8/2022 DALE SAMPLING TIME WATER Class Gonzales MATRIX Chain of Custody SOIL Peyton Oliver 212C-MD-02230 جه ف Dake HCL HNO XX × × $\times \times$ ICE O None 1608 CONTAINERS HIER NIER ww ANALYSIS REQUEST LAB USE ONLY TPH TRIBUSIES IN CO رؤي XX × × × × TEN HOTEMI GRO- DRO- ORO- MROJ craf Metais Ag As Ba Co Cr Pb Se Hip Circle or C.P Mela's Ag As Bin Cd Cr Po Se Hg REMARKS. TCLP ve al es RUSH Rush Cita geo Action Les TC.P Serv Volaties Special Raport I mission TARP Assort STANDARD CIMS VII. 62608 1 624 COMS Sens Vol. 82700525 Sare Day NORM Method FLM Astestes XXXX Cholife TOS Chloride Sul later Seneral Water Openistry (see affacted list) Asign/Cation Balance V. 9 Hold

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	# CONTAINERS FILTERED [Y/N]	ANALYSIS RECONTAINERS FILTERED IVINI THE TX TOUD (Ext. to 236) X X X X X X X X X X X X TEN AUTOM GRO ORG (MRO) FAM 82700 For all Metals Ag As Ba Cd Cr Pt. Se Hg TGL P Metals Ag As Ba Cd Cr Pt. Se Hg	ANALYSIS REQUES FILTERED IVIN FILT	ANALYSIS REQUES FILTERED IVIN FILT	ANALYSIS REQUEST A CONTAINERS
	# CONTAINERS FILTERED [Y/N]	ANALYSIS RECONTAINERS FILTERED IVINI THE TX TOUD (Ext. to 236) X X X X X X X X X X X X TEN AUTOM GRO ORG (MRO) FAM 82700 For all Metals Ag As Ba Cd Cr Pt. Se Hg TGL P Metals Ag As Ba Cd Cr Pt. Se Hg	ANALYSIS REQUES FILTERED IVIN FILT	ANALYSIS REQUES FILTERED IVIN FILT	ANALYSIS REQUEST A CONTAINERS
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ANALYSIS REQUES BIEN FAILE PH IX ICC Ph Se Hg CONTAINERS	ANALYSIS REQUES BIEN FAILE PH IX ICC Ph Se Hg CONTAINERS	ANALYSIS REQUEST # CONTAINERS FILTERED (YIN) X X X X HINN HOUSE OFFE BURE IPH IXICUMBETE GRO DRO GRO MRO) X X X X THE BURGET GRO DRO GRO GRO MRO) X X X X THE BURGET GRO DRO GRO GRO MRO) X X X X THE BURGET GRO DRO GRO GRO MRO) X X X X THE BURGET GRO DRO GRO GRO GRO MRO) X X X X THE BURGET GRO DRO GRO GRO GRO GRO GRO GRO GRO GRO GRO G		Racewed by	, W.	Received by	March of the March				George	76-2-22	777-2022	77.2222		ALVE PT IA	SAMPLING		Sampler Signature		Project #	Clair G	Site Manager:	
ANALYSIS REQUES *** CONTAINERS *** FILTERED (YIN) *** X X X BEEX BOXES BEEX BOXES *** PPH TX:1000 FeB to GRO GRO MRO) *** X X X X TPH BOXES AG AS BE GO OF PD Sering *** TOUP Metals Ag As Be GO OF PD Sering *** TOUP Welatives *** TOUP Serin Volumes	ANALYSIS REQUES *** CONTAINERS *** FILTERED (YIN) *** X X X BEEX BOXES BEEX BOXES *** PPH TX:1000 FeB to GRO GRO MRO) *** X X X X TPH BOXES AG AS BE GO OF PD Sering *** TOUP Metals Ag As Be GO OF PD Sering *** TOUP Welatives *** TOUP Serin Volumes	ANALYSIS REQUEST # CONTAINERS # CONTAINERS # ILTERED (YN) X X X X HINN HOUSE OFFICE OFF		Dak		Date					×	×	×	×	SOIL HCL	R			Peyton O		212C-ND	onzalesatekale	Class Gonzale	for Hills who
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		Special Baport Late or TRRP Report The property of the proper	HANE De			-	USE ONLY				×	×	×	×	PAH 6 Yeral N YC. P I	2730 letais A Vetais	43 A3 A	Ha Go Ca	Pt Se	Fin			LYSIS REQU	
	PCB's MCB2 (Childred Subbits TDS)		x4044	Special Re	Russi Chan		X STAN								TOLP ROI GOM	Semi Vi	29 28	/ 524	15				500	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2515-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 2515 List Number: 1 Creator: Clifton, Cloe

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.	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	N/A	

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<6mm (1/4").

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2515-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Source: Eurotins Midland
List Creation: 07/12/22 11:11 AM

Creator: Rodriguez, Leticia

Login Number: 2515

List Number: 2

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	N/A	

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2553-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Brittany Long

RAMER

Authorized for release by: 7/20/2022 11:48:05 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2553-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

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Qualifiers

GC VOA Qualifier

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Eurofins Carlsbad

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Case Narrative

Job ID: 890-2553-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Job ID: 890-2553-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2553-1

Receipt

The samples were received on 7/12/2022 4:57 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 36.2°C

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-29774 and analytical batch 880-29893 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-29947 and analytical batch 880-30015 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-29754 and analytical batch 880-29864 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Lab Sample ID: 890-2553-1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-142 5'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/22 16:53	07/18/22 12:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/22 16:53	07/18/22 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/14/22 16:53	07/18/22 12:27	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/14/22 16:53	07/18/22 12:27	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/19/22 09:14	1
Analyte Total TPH		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH				MDL	Unit	U	Prepared	Anaivzed	DIIFac
	\30.0	U	50.0		mg/Kg			07/18/22 09:27	
- -			50.0		mg/Kg				
Method: 8015B NM - Diesel Ran			50.0		mg/Kg				
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D Result	RO) (GC) Qualifier	RL	MDL		D	Prepared	07/18/22 09:27 Analyzed	1
Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 07/15/22 08:42	07/18/22 09:27	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <50.0	RO) (GC) Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 11:12	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	<u>.</u>	07/18/22 09:27 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 11:12 07/15/22 11:12	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 11:12	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 11:12 07/15/22 11:12	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <50.0 <50.0	RO) (GC) Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 11:12 07/15/22 11:12	Dil Face
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared	07/18/22 09:27 Analyzed 07/15/22 11:12 07/15/22 11:12 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <50.0 <50.0 <50.0 **Recovery 81 88	RO) (GC) Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 11:12 07/15/22 11:12 Analyzed 07/15/22 11:12	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <50.0 <50.0 <50.0 %Recovery 81 88 omatography -	RO) (GC) Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 11:12 07/15/22 11:12 Analyzed 07/15/22 11:12	Dil Fac

Client Sample ID: BH-143 5'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:48	
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 12:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				07/14/22 16:53	07/18/22 12:48	

Eurofins Carlsbad

Lab Sample ID: 890-2553-2

Matrix: Solid

Lab Sample ID: 890-2553-2

07/15/22 12:16

07/15/22 12:16

07/16/22 21:42

Lab Sample ID: 890-2553-3

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-143 5'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 5'

Method: 8021B	Volatile Ore	ranic Com	nounds (C	C	(Continued)	
WELLIOU. OUZ ID	- voiatile Org	Janiic Com	poulius (C	3C) ((Continueu)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	98	70 - 130	07/14/22 16:53	07/18/22 12:48	1

ı				
ı	Method:	Total RTFX	: - Total BTEX	Calculation
ı	mictilou.	TOTAL DIE	- IOLAI DIEA	Oulculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		mg/Kg		_	07/19/22 09:14	1

ı		
ı	Method: 8015 NM - Diesel Range Organics (DRO)	(CC)
ı	Method. 0013 NM - Diesel Kange Organics (DKO)	(00)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/18/22 09:27	1

Mothod: 901ED	NM Diocol	Pango Ore	aniec /	DBO	(CC)
Method: 8015B	MINI - DIESEI	Range Org	janics (DRO	(GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 12:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 12:16	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 12:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	99	70 - 130	07/15/22 08:42
o-Terphenyl	104	70 - 130	07/15/22 08:42

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Method: 300.0 - Anions, Ion C	Chromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

4.98

mg/Kg

Client Sample ID: BH-144 5'

Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 5'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 13:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 13:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 13:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 16:53	07/18/22 13:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 13:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 16:53	07/18/22 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				07/14/22 16:53	07/18/22 13:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/14/22 16:53	07/18/22 13:09	1

Method: T	otal RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	U	Prepared	Analyzed	DII Fac
Total BTEX	<0.00402	U	0.00402	_	mg/Kg		_	07/19/22 09:14	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	226	50.0	mg/Kg			07/18/22 09:27	1

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Lab Sample ID: 890-2553-3

Lab Sample ID: 890-2553-4

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2553-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-144 5'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 14:02	1
(GRO)-C6-C10									
Diesel Range Organics (Over	226		50.0		mg/Kg		07/15/22 08:42	07/15/22 14:02	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/15/22 08:42	07/15/22 14:02	1
o-Terphenyl	86		70 - 130				07/15/22 08:42	07/15/22 14:02	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	501		4.99	•	mg/Kg			07/16/22 21:52	1

Client Sample ID: BH-145 5'

Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 13:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 13:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 13:30	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/22 16:53	07/18/22 13:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 13:30	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/22 16:53	07/18/22 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				07/14/22 16:53	07/18/22 13:30	1
1,4-Difluorobenzene (Surr)	108		70 - 130				07/14/22 16:53	07/18/22 13:30	1
Method: 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			07/19/22 09:14	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/18/22 09:27	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		07/15/22 08:42	07/15/22 12:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 12:37	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				07/15/22 08:42	07/15/22 12:37	1
o-Terphenyl	82		70 - 130				07/15/22 08:42	07/15/22 12:37	1

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2553-1

SDG: Lea County NM

Client Sample ID: BH-145 5'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 5'

Lab Sample ID: 890-2553-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	903		5.00		mg/Kg			07/16/22 22:01	1

Client Sample ID: BH-146 5' Lab Sample ID: 890-2553-5 **Matrix: Solid**

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 5'

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 13:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 13:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 13:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 13:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 13:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				07/14/22 16:53	07/18/22 13:51	1
1,4-Difluorobenzene (Surr)	111		70 - 130				07/14/22 16:53	07/18/22 13:51	1

Total BTEX	<0.00399	U	0.00399		mg/Kg			07/19/22 09:14	1
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/18/22 09:27	1
Method: 8015B NM - Diesel Rai Analyte	• • •	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 12:58	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 12:58	1

MDL Unit

mg/Kg

Prepared

07/15/22 08:42

Analyzed

07/15/22 12:58

Result Qualifier

<50.0 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77	70 - 130	07/15/22 08:42	07/15/22 12:58	1
o-Terphenyl	82	70 - 130	07/15/22 08:42	07/15/22 12:58	1

50.0

Method: 300.0 - Anions, Ion Chroma	tography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	751		4.96		mg/Kg			07/16/22 22:10	1

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OII Range Organics (Over C28-C36)

Lab Sample ID: 890-2553-6

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-147 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 14:11	
Toluene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 14:11	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 14:11	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 16:53	07/18/22 14:11	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 14:11	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 16:53	07/18/22 14:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Bromofluorobenzene (Surr)	106		70 - 130				07/14/22 16:53	07/18/22 14:11	
1,4-Difluorobenzene (Surr)	110		70 - 130				07/14/22 16:53	07/18/22 14:11	
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/19/22 09:14	
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	537		50.0		mg/Kg			07/18/22 09:27	
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 15:52	
Diesel Range Organics (Over C10-C28)	478		50.0		mg/Kg		07/15/22 08:42	07/15/22 15:52	
Oll Range Organics (Over C28-C36)	59.0		50.0		mg/Kg		07/15/22 08:42	07/15/22 15:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	85		70 - 130				07/15/22 08:42	07/15/22 15:52	
o-Terphenyl	88		70 - 130				07/15/22 08:42	07/15/22 15:52	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Client Sample ID: BH-148 6'

Date Collected: 07/12/22 00:00

Lab Sample ID: 890-2553-7

Matrix: Solid

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 14:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 14:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 14:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 16:53	07/18/22 14:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 14:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 16:53	07/18/22 14:32	1

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Lab Sample ID: 890-2553-7

Lab Sample ID: 890-2553-8

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2553-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-148 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Surrogate	%Recovery Qual	ifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112	70 - 130	07/14/22 16:53	07/18/22 14:32	1
1,4-Difluorobenzene (Surr)	96	70 - 130	07/14/22 16:53	07/18/22 14:32	1

Method: 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			07/19/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qualifie	er RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	190	49.9	mg/Kg			07/18/22 09:27	1

Method: 8015B 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		07/15/22 08:42	07/15/22 14:24	1
Diesel Range Organics (Over C10-C28)	138		49.9		mg/Kg		07/15/22 08:42	07/15/22 14:24	1
Oll Range Organics (Over C28-C36)	52.3		49.9		mg/Kg		07/15/22 08:42	07/15/22 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	07/15/22 08:42	07/15/22 14:24	1
o-Terphenyl	101		70 - 130	07/15/22 08:42	07/15/22 14:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.69	4.97	mg/Kg			07/16/22 22:47	1

Client Sample ID: BH-149 6'

Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 14:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 14:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 14:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/22 16:53	07/18/22 14:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 14:53	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/22 16:53	07/18/22 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/14/22 16:5	3 07/18/22 14:53	1
1,4-Difluorobenzene (Surr)	110		70 - 130	07/14/22 16:5	3 07/18/22 14:53	1

Method: 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			07/19/22 09:14	1

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Lab Sample ID: 890-2553-8

Lab Sample ID: 890-2553-9

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-149 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result Qualifier	RL	MDL U	nit D	Prepared	Analyzed	Dil Fac		
Total TPH	64.6	49.9	m	ng/Kg		07/18/22 09:27	1		

_ lotal IPH	04.0		43.3		mg/rtg			01/10/22 09.21	'
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		07/15/22 08:42	07/15/22 17:38	1
Diesel Range Organics (Over C10-C28)	64.6		49.9		mg/Kg		07/15/22 08:42	07/15/22 17:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/15/22 08:42	07/15/22 17:38	1
o-Terphenyl	91		70 - 130				07/15/22 08:42	07/15/22 17:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	7.07	4.98	mg/Kg			07/16/22 22:56	1	

Client Sample ID: BH-150 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Date Received: 07/12/22 16:

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 15:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 15:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 15:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 15:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 15:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/14/22 16:53	07/18/22 15:14	1
1,4-Difluorobenzene (Surr)	108		70 - 130				07/14/22 16:53	07/18/22 15:14	1
Method: Total BTEX - Total BTEX Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
				MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/19/22 09:14	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range	Result <0.00399 Organics (DR	U (GC)	0.00399		mg/Kg	=		07/19/22 09:14	1
Analyte Total BTEX	Result <0.00399 Organics (DR	U	0.00399	MDL	mg/Kg	<u>D</u>	Prepared Prepared	07/19/22 09:14 Analyzed	
Analyte Total BTEX Method: 8015 NM - Diesel Range	Result <0.00399 Organics (DR	U (GC)	0.00399		mg/Kg	=		07/19/22 09:14	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Result <0.00399 Organics (DR) Result 83.6	O) (GC) Qualifier	0.00399		mg/Kg	=		07/19/22 09:14 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	Result <0.00399 Organics (DR) Result 83.6 ge Organics (DI)	O) (GC) Qualifier	0.00399	MDL	mg/Kg	=		07/19/22 09:14 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	Result <0.00399 Organics (DR) Result 83.6 ge Organics (DI)	O) (GC) Qualifier RO) (GC) Qualifier	0.00399 RL 50.0	MDL	mg/Kg Unit mg/Kg		Prepared	07/19/22 09:14 Analyzed 07/18/22 09:27	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Result <0.00399 Organics (DR) Result 83.6 ge Organics (Di Result	O) (GC) Qualifier RO) (GC) Qualifier	0.00399 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit		Prepared Prepared	07/19/22 09:14 Analyzed 07/18/22 09:27 Analyzed	1

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Matrix: Solid

Lab Sample ID: 890-2553-9

Lab Sample ID: 890-2553-10

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-150 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	07/15/22 08:42	07/15/22 17:17	1
o-Terphenyl	102		70 - 130	07/15/22 08:42	07/15/22 17:17	1

Method: 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride10.94.96mg/Kg07/16/22 23:051

Client Sample ID: BH-151 6'

Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 15:35	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 15:35	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 15:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 16:53	07/18/22 15:35	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 15:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 16:53	07/18/22 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				07/14/22 16:53	07/18/22 15:35	1
1,4-Difluorobenzene (Surr)	108		70 - 130				07/14/22 16:53	07/18/22 15:35	1
Method: 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			07/19/22 09:14	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	126		50.0		mg/Kg			07/18/22 09:27	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		07/15/22 08:42	07/15/22 16:56	1
Diesel Range Organics (Over C10-C28)	126		50.0		mg/Kg		07/15/22 08:42	07/15/22 16:56	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				07/15/22 08:42	07/15/22 16:56	1
o-Terphenyl	99		70 - 130				07/15/22 08:42	07/15/22 16:56	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chro Analyte	•	Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2553-11

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-152 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 17:37	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	110		70 - 130				07/18/22 13:40	07/19/22 17:37	
1,4-Difluorobenzene (Surr)	99		70 - 130				07/18/22 13:40	07/19/22 17:37	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/19/22 09:14	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	74.9		50.0		ma/Ka			07/18/22 09:27	
Total TPH	74.9		50.0		mg/Kg		· ·		
Method: 8015B NM - Diesel Ran	ge Organics (D					_		07/18/22 09:27	
Method: 8015B NM - Diesel Ran Analyte	ge Organics (D	Qualifier	RL	MDL	Unit	D	Prepared	07/18/22 09:27 Analyzed	Dil Fac
Method: 8015B NM - Diesel Ran	ge Organics (D	Qualifier		MDL		<u>D</u>	Prepared 07/15/22 08:42	07/18/22 09:27	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier	RL	MDL	Unit	<u>D</u>		07/18/22 09:27 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 18:42	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	Qualifier U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 18:42 07/15/22 18:42	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <50.0 74.9	Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 18:42 07/15/22 18:42	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <50.0 74.9 <50.0	Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	D	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared	07/18/22 09:27 Analyzed 07/15/22 18:42 07/15/22 18:42 Analyzed	Dil Fa
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <50.0 74.9 <50.0 %Recovery 78 83	Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 18:42 07/15/22 18:42 Analyzed 07/15/22 18:42	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <50.0 74.9 <50.0 %Recovery 78 83 omatography -	Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 18:42 07/15/22 18:42 Analyzed 07/15/22 18:42	Dil Fac

Client Sample ID: BH-153 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/22 13:40	07/19/22 17:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/22 13:40	07/19/22 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				07/18/22 13:40	07/19/22 17:57	

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Matrix: Solid

Lab Sample ID: 890-2553-12

Lab Sample ID: 890-2553-12

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-153 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Method: 8021B - Volatile O	rganic Compou	nds (GC)	(Continued)
Michiga: OUL 1B Volume C	i gaino compou	1145 (55)	(Goillinaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93	70 - 130	07/18/22 13:40	07/19/22 17:57	1

Mothod:	Total RTEX	- Total BTE	Calculation
welliou.	TOTAL DIEV	- IUIAI DIE	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg		_	07/19/22 09:14	1

Method: 8015 NM - Diesel Range (Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualif	er RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	117	49.9	mg/k	(g		07/18/22 09:27	1
Method: 8015B NM - Diesel Range	Organics (DRO) (0	iC)					

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 15:06	1
(GRO)-C6-C10									
Diesel Range Organics (Over	117		49.9		mg/Kg		07/15/22 08:42	07/15/22 15:06	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	07/15/22 08:42	07/15/22 15:06	1
o-Terphenyl	84		70 - 130	07/15/22 08:42	07/15/22 15:06	1

	Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
l	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	22.7		4.98		mg/Kg			07/16/22 23:51	1

Client Sample ID: BH-154 6' Lab Sample ID: 890-2553-13

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Mothod: 9021R - V	Volatila Organic	Compounds (GC)
MICHIOU. OUZ ID •	VUIALIIE OLUAIIIC	CUIIIDUUIIUS (GC)

Wethou. 002 ID - Volatile Orga	inic compounds ((00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 18:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				07/18/22 13:40	07/19/22 18:18	1
1,4-Difluorobenzene (Surr)	95		70 - 130				07/18/22 13:40	07/19/22 18:18	1

Г					
1,4-Difluorobenzene (Surr)	95	70 - 130	07/18/22 13:40	07/19/22 18:18	1
4-Divinoliadiopenzene (San)	90	70 - 130	07/10/22 13.40	01/19/22 10.10	,

Method: 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			07/19/22 09:14	1

Mathed COAFNM Diseas	D	(DDO) (OO)
Method: 8015 NM - Diesel	Range Organics	(DKO) (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1330	50.0	mg/Kg			07/18/22 09:27	1

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Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-154 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57 Sample Depth: 6'

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2553-13

Lab Sample ID: 890-2553-14

Matrix: Solid

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 13:41	1
Diesel Range Organics (Over C10-C28)	1070		50.0		mg/Kg		07/15/22 08:42	07/15/22 13:41	1
Oll Range Organics (Over C28-C36)	261		50.0		mg/Kg		07/15/22 08:42	07/15/22 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				07/15/22 08:42	07/15/22 13:41	1
o-Terphenyl	82		70 - 130				07/15/22 08:42	07/15/22 13:41	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	77.4		4.98		mg/Kg			07/17/22 00:01	

Client Sample ID: BH-155 6' Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 18:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 18:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 18:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/22 13:40	07/19/22 18:38	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 18:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/22 13:40	07/19/22 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				07/18/22 13:40	07/19/22 18:38	1
1,4-Difluorobenzene (Surr)	99		70 - 130				07/18/22 13:40	07/19/22 18:38	1
Method: Total BTEX - Total BTE)	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		mg/Kg			07/19/22 09:14	1
• •			0.00398		mg/Kg			07/19/22 09:14	1
: Method: 8015 NM - Diesel Range	organics (DR	O) (GC)				_			·
Method: 8015 NM - Diesel Range Analyte	Organics (DR		RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	organics (DR	O) (GC)		MDL		<u>D</u>	Prepared		·
Method: 8015 NM - Diesel Range Analyte	Organics (DRO Result	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR Result 111 ge Organics (D	O) (GC) Qualifier	RL		Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR Result 111 ge Organics (D	Qualifier RO) (GC) Qualifier	RL		Unit mg/Kg		· · ·	Analyzed 07/18/22 09:27	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR Result 111 ge Organics (DI Result	Qualifier RO) (GC) Qualifier	RL 50.0		Unit mg/Kg		Prepared	Analyzed 07/18/22 09:27 Analyzed 07/15/22 14:45	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result 111 ge Organics (DI Result	O) (GC) Qualifier RO) (GC) Qualifier			Unit mg/Kg		Prepared	Analyzed 07/18/22 09:27	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result 111 ge Organics (Di Result <50.0	O) (GC) Qualifier RO) (GC) Qualifier U	RL 50.0 FL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42	Analyzed 07/18/22 09:27 Analyzed 07/15/22 14:45 07/15/22 14:45	Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR Result 111 ge Organics (DI Result <50.0	O) (GC) Qualifier RO) (GC) Qualifier U	RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 07/15/22 08:42	Analyzed 07/18/22 09:27 Analyzed 07/15/22 14:45	Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	e Organics (DR Result 111 ge Organics (DR Result <50.0 111 <50.0	O) (GC) Qualifier RO) (GC) Qualifier U	RL 50.0 RL 50.0 50.0 50.0 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared	Analyzed 07/18/22 09:27 Analyzed 07/15/22 14:45 07/15/22 14:45 Analyzed	Dil Fac Dil Fac 1 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result 111 ge Organics (DI Result <50.0	O) (GC) Qualifier RO) (GC) Qualifier U	RL 50.0 RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42	Analyzed 07/18/22 09:27 Analyzed 07/15/22 14:45 07/15/22 14:45	Dil Fac Dil Fac 1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2553-1

SDG: Lea County NM

Client Sample ID: BH-155 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Lab Sample ID: 890-2553-14

Matrix: Solid

Method: 300.0 - Anions, Ion Chron	Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	20.8		5.05		mg/Kg			07/17/22 00:29	1		

Client Sample ID: BH-156 6' Lab Sample ID: 890-2553-15 **Matrix: Solid**

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

o-Terphenyl

Analyte

Chloride

Method: 8021B - Volatile Organic	c Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:58	
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:58	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:58	,
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 18:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 18:58	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/18/22 13:40	07/19/22 18:58	1
1,4-Difluorobenzene (Surr)	89		70 - 130				07/18/22 13:40	07/19/22 18:58	1
Total BTEX : : Method: 8015 NM - Diesel Range	<0.00399 Organics (DR		0.00399		mg/Kg			07/19/22 09:14	•
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	94.0		50.0		mg/Kg			07/18/22 09:27	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (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		07/15/22 08:42	07/15/22 17:59	1
Diesel Range Organics (Over C10-C28)	94.0		50.0		mg/Kg		07/15/22 08:42	07/15/22 17:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 17:59	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130				07/15/22 08:42	07/15/22 17:59	
									,

70 - 130

RL

5.00

MDL Unit

mg/Kg

Result Qualifier

16.3

Eurofins Carlsbad

07/15/22 08:42

Prepared

D

07/15/22 17:59

Analyzed 07/17/22 00:38 Dil Fac

Method: 300.0 - Anions, Ion Chromatography - Soluble

Lab Sample ID: 890-2553-16

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-157 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 19:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 19:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 19:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/22 13:40	07/19/22 19:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 19:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/22 13:40	07/19/22 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				07/18/22 13:40	07/19/22 19:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130				07/18/22 13:40	07/19/22 19:19	1
- Method: 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			07/19/22 09:14	1
Analyte Total TPH	Result <50.0	Qualifier U		MDL	mg/Kg	D	Prepared	Analyzed 07/18/22 09:27	Dil Fac
Total TPH				WIDL					1
Method: 8015B NM - Diesel Rang	ne Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 19:03	1
,							07/15/22 08:42	07/45/00 40 00	
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01710722 00112	07/15/22 19:03	1
C10-C28)									
5 5 ,	<50.0 <50.0		50.0 50.0		mg/Kg		07/15/22 08:42	07/15/22 19:03	1
C10-C28) OII Range Organics (Over C28-C36)		U							1
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0	U	50.0				07/15/22 08:42	07/15/22 19:03	1 Dil Fac
C10-C28)	<50.0 %Recovery	U	50.0 <i>Limits</i>				07/15/22 08:42 Prepared	07/15/22 19:03 Analyzed	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 **Recovery 83 89	U Qualifier	50.0 Limits 70 - 130				07/15/22 08:42 Prepared 07/15/22 08:42	07/15/22 19:03 Analyzed 07/15/22 19:03	
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery 83 89 pmatography -	U Qualifier	50.0 Limits 70 - 130	MDL	mg/Kg	D	07/15/22 08:42 Prepared 07/15/22 08:42	07/15/22 19:03 Analyzed 07/15/22 19:03	1 Dil Fac

Client Sample ID: BH-158 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2553-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/22 13:40	07/19/22 20:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/22 13:40	07/19/22 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/18/22 13:40	07/19/22 20:41	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-158 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57 Sample Depth: 6'

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2553-17

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130				07/18/22 13:40	07/19/22 20:41	1
· Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/19/22 09:14	1
Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9550		250		mg/Kg			07/18/22 09:27	1
Total TPH Method: 8015B NM - Diesel Ra Analyte	nge Organics (D	RO) (GC) Qualifier	250	MDL	mg/Kg Unit	D	Prepared	07/18/22 09:27 Analyzed	Dil Fac
Method: 8015B NM - Diesel Ra	nge Organics (D	Qualifier		MDL		<u>D</u>	Prepared 07/15/22 08:42		Dil Fac
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	nge Organics (D	Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	5
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	nge Organics (D Result <250	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	07/15/22 08:42	Analyzed 07/15/22 13:19	5
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	nge Organics (D Result <250	Qualifier U	RL 250	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42	Analyzed 07/15/22 13:19 07/15/22 13:19	
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	nge Organics (D Result <250 7890	Qualifier U	RL 250 250 250	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42	Analyzed 07/15/22 13:19 07/15/22 13:19 07/15/22 13:19	5 5

MDL Unit

mg/Kg

D

Prepared

Client Sample ID: SW-50 0-6'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 0' - 6'

Analyte

Chloride

REMOVED FROM ANALYSIS TABLE

Result Qualifier

117

Lab Sample ID: 890-2553-18

Analyzed

07/17/22 00:56

Matrix: Solid

Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/18/22 13:40	07/19/22 19:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/18/22 13:40	07/19/22 19:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/18/22 13:40	07/19/22 19:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/18/22 13:40	07/19/22 19:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/18/22 13:40	07/19/22 19:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/18/22 13:40	07/19/22 19:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/18/22 13:40	07/19/22 19:39	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/18/22 13:40	07/19/22 19:39	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/19/22 09:14	

RL

4.99

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-50 0-6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57 Sample Depth: 0' - 6'

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2553-18

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	152		49.9		mg/Kg			07/18/22 09:27	1
Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 18:21	1
(GRO)-C6-C10									
Diesel Range Organics (Over	152		49.9		mg/Kg		07/15/22 08:42	07/15/22 18:21	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				07/15/22 08:42	07/15/22 18:21	1
o-Terphenyl	78		70 - 130				07/15/22 08:42	07/15/22 18:21	1

RL

4.95

MDL Unit

mg/Kg

Client Sample ID: SW-51 0-6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 0' - 6'

Analyte

Chloride

REMOVED FROM ANALYSIS TABLE

Result Qualifier

9.67

Lab Sample ID: 890-2553-19

Analyzed

07/17/22 01:06

Prepared

Matrix: Solid

Dil Fac

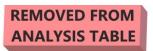
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 20:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				07/18/22 13:40	07/19/22 20:00	1
1,4-Difluorobenzene (Surr)	104		70 - 130				07/18/22 13:40	07/19/22 20:00	1
Analyte		Qualifier		MDL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed 07/19/22 09:14	Dil Fa
Analyte Total BTEX	Result < 0.00399	U		MDL	Unit mg/Kg	<u>D</u>	Prepared		Dil Fac
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Result <0.00399	U (GC)	0.00399		mg/Kg	_ =		07/19/22 09:14	Dil Fac
Analyte Total BTEX	Result <0.00399	U				<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	Result <0.00399 Organics (DRO Result 202	O) (GC) Qualifier	0.00399		mg/Kg	_ =		07/19/22 09:14 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	Result 20.00399 • Organics (DR) Result 202 ge Organics (DI)	O) (GC) Qualifier	0.00399	MDL	mg/Kg	_ =		07/19/22 09:14 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Result 20.00399 • Organics (DR) Result 202 ge Organics (DI)	O) (GC) Qualifier RO) (GC) Qualifier	0.00399 RL 50.0	MDL	mg/Kg Unit mg/Kg		Prepared	07/19/22 09:14 Analyzed 07/18/22 09:27	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Result 20.00399 Porganics (DRG Result 202 ge Organics (DIG Result Res	O) (GC) Qualifier RO) (GC) Qualifier	0.00399 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit		Prepared Prepared	07/19/22 09:14 Analyzed 07/18/22 09:27 Analyzed	Dil Fac

Client Sample Results

Job ID: 890-2553-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-51 0-6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57 Sample Depth: 0' - 6'



Lab Sample ID: 890-2553-19

Matrix: Solid

Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 90 70 - 130 07/15/22 08:43 07/15/22 19:24 1-Chlorooctane o-Terphenyl 92 70 - 130 07/15/22 08:43 07/15/22 19:24

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL MDL Unit D Analyzed Prepared 143 4.95 07/17/22 01:15 Chloride mg/Kg

Lab Sample ID: 890-2553-20

Matrix: Solid

Dil Fac

Date Received: 07/12/22 16:57

Date Collected: 07/12/22 00:00

Sample Depth: 0' - 6'

Client Sample ID: SW-52 0-6'

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 20:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

4-Bromofluorobenzene (Surr) 111 70 - 130 07/18/22 13:40 07/19/22 20:20 1,4-Difluorobenzene (Surr) 97 70 - 130 07/18/22 13:40 07/19/22 20:20

Method: 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 07/19/22 09:14

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 49.8 mg/Kg 07/18/22 09:27

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		07/15/22 08:43	07/15/22 16:13	1
(GRO)-C6-C10									
Diesel Range Organics (Over	81.4		49.8		mg/Kg		07/15/22 08:43	07/15/22 16:13	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/15/22 08:43	07/15/22 16:13	1
On Hange Organies (Over 020 000)	10.0	J	10.0		1119/119		017 10/22 00:10	01/10/22 10:10	·

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 70 - 130 07/15/22 08:43 07/15/22 16:13 1-Chlorooctane 92 o-Terphenyl 97 70 - 130 07/15/22 08:43 07/15/22 16:13

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 4.97 Chloride 386 mg/Kg

Dil Fac 07/17/22 01:24

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				 Surrogate Rec
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17008-A-21-C MS	Matrix Spike	107	95	
380-17008-A-21-D MSD	Matrix Spike Duplicate	117	92	
890-2553-1	BH-142 5'	109	107	
890-2553-1 MS	BH-142 5'	97	85	
890-2553-1 MSD	BH-142 5'	118	90	
390-2553-2	BH-143 5'	130	98	
390-2553-3	BH-144 5'	113	96	
890-2553-4	BH-145 5'	110	108	
890-2553-5	BH-146 5'	112	111	
890-2553-6	BH-147 6'	106	110	
890-2553-7	BH-148 6'	112	96	
890-2553-8	BH-149 6'	111	110	
890-2553-9	BH-150 6'	105	108	
890-2553-10	BH-151 6'	111	108	
890-2553-11	BH-152 6'	110	99	
390-2553-12	BH-153 6'	108	93	
390-2553-13	BH-154 6'	96	95	
390-2553-14	BH-155 6'	106	99	
890-2553-15	BH-156 6'	109	89	
890-2553-16	BH-157 6'	118	95	
890-2553-17	BH-158 6'	105	91	
890-2553-18	SW-50 0-6'	103	96	
890-2553-19	SW-51 0-6'	116	104	
890-2553-20	SW-52 0-6'	111	97	
LCS 880-29774/1-A	Lab Control Sample	114	88	
LCS 880-29947/1-A	Lab Control Sample	108	96	
LCSD 880-29774/2-A	Lab Control Sample Dup	97	99	
LCSD 880-29947/2-A	Lab Control Sample Dup	109	94	
MB 880-29774/5-A	Method Blank	97	110	
MB 880-29947/5-A	Method Blank	97	97	
		٥.	٠.	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surro
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2553-1	BH-142 5'	81	88	
890-2553-1 MS	BH-142 5'	82	79	
890-2553-1 MSD	BH-142 5'	87	84	
890-2553-2	BH-143 5'	99	104	
890-2553-3	BH-144 5'	84	86	
890-2553-4	BH-145 5'	78	82	
890-2553-5	BH-146 5'	77	82	
890-2553-6	BH-147 6'	85	88	
890-2553-7	BH-148 6'	99	101	

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2553-8	BH-149 6'	86	91	
890-2553-9	BH-150 6'	96	102	
890-2553-10	BH-151 6'	93	99	
890-2553-11	BH-152 6'	78	83	
890-2553-12	BH-153 6'	81	84	
890-2553-13	BH-154 6'	81	82	
890-2553-14	BH-155 6'	78	80	
890-2553-15	BH-156 6'	88	93	
890-2553-16	BH-157 6'	83	89	
890-2553-17	BH-158 6'	77	88	
890-2553-18	SW-50 0-6'	74	78	
890-2553-19	SW-51 0-6'	90	92	
890-2553-20	SW-52 0-6'	92	97	
LCS 880-29795/2-A	Lab Control Sample	118	124	
LCSD 880-29795/3-A	Lab Control Sample Dup	127	128	
MB 880-29795/1-A	Method Blank	92	103	

OTPH = o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29774/5-A

Analysis Batch: 29893

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29774

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 16:53	07/18/22 12:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 16:53	07/18/22 12:05	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97	70 - 130	07/14/22 16:53	07/18/22 12:05	1
1,4-Difluorobenzene (Surr)	110	70 - 130	07/14/22 16:53	07/18/22 12:05	1

Lab Sample ID: LCS 880-29774/1-A

Matrix: Solid

Analysis Batch: 29893

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29774

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09196		mg/Kg		92	70 - 130	
Toluene	0.100	0.1153		mg/Kg		115	70 - 130	
Ethylbenzene	0.100	0.1149		mg/Kg		115	70 - 130	
m-Xylene & p-Xylene	0.200	0.2397		mg/Kg		120	70 - 130	
o-Xylene	0.100	0.1241		mg/Kg		124	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	88	70 - 130

Lab Sample ID: LCSD 880-29774/2-A

Matrix: Solid

Analysis Batch: 29893

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29774

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1022		mg/Kg		102	70 - 130	11	35	
Toluene	0.100	0.09957		mg/Kg		100	70 - 130	15	35	
Ethylbenzene	0.100	0.08943		mg/Kg		89	70 - 130	25	35	
m-Xylene & p-Xylene	0.200	0.1801		mg/Kg		90	70 - 130	28	35	
o-Xylene	0.100	0.09438		mg/Kg		94	70 - 130	27	35	

LCSD LCSD

Surrogate	%Recovery 0	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-2553-1 MS

Matrix: Solid

Analysis Batch: 29893

Client Sample ID: BH-142 5'

Prep Type: Total/NA

Prep Batch: 29774

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.100	0.08275		mg/Kg		83	70 - 130	
Toluene	<0.00200	U	0.100	0.09095		mg/Kg		91	70 - 130	

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2553-1 MS

Matrix: Solid

Analysis Batch: 29893

Client Sample ID: BH-142 5' Prep Type: Total/NA

Prep Batch: 29774

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 U 0.100 0.07967 80 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00401 U 0.200 0.1588 mg/Kg 79 70 - 130 <0.00200 U 0.100 0.08167 o-Xylene mg/Kg 82 70 - 130

MS MS

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	85	70 - 130

Client Sample ID: BH-142 5'

Prep Type: Total/NA

Prep Batch: 29774

Lab Sample ID: 890-2553-1 MSD **Matrix: Solid**

Analysis Batch: 29893

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0994	0.06644	F1	mg/Kg		67	70 - 130	22	35
Toluene	<0.00200	U	0.0994	0.07947		mg/Kg		80	70 - 130	13	35
Ethylbenzene	<0.00200	U	0.0994	0.07332		mg/Kg		74	70 - 130	8	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1541		mg/Kg		78	70 - 130	3	35
o-Xylene	<0.00200	U	0.0994	0.08160		mg/Kg		82	70 - 130	0	35

MSD MSD

Surrogate	%Recovery Qu	alifier Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	90	70 - 130

Lab Sample ID: MB 880-29947/5-A

Matrix: Solid

Analysis Batch: 30015

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 29947

	INID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/22 13:40	07/19/22 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/22 13:40	07/19/22 11:47	1

MB MB

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97	70 - 130	07/18/22 13:40	07/19/22 11:47	1
1 4-Difluorobenzene (Surr)	97	70 - 130	07/18/22 13:40	07/19/22 11:47	1

Lab Sample ID: LCS 880-29947/1-A

Matrix: Solid

Analysis Batch: 30015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29947

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08396		mg/Kg	_	84	70 - 130	
Toluene	0.100	0.08292		mg/Kg		83	70 - 130	
Ethylbenzene	0.100	0.08272		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	0.200	0.1743		mg/Kg		87	70 - 130	

QC Sample Results

Job ID: 890-2553-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-29947/1-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 30015 Prep Batch: 29947

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits D 0.100 0.09506 mg/Kg 95 70 - 130 o-Xylene

LCS LCS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 108 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 96

Lab Sample ID: LCSD 880-29947/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 30015** Prep Batch: 29947

LCSD LCSD Spike RPD Analyte Added Result Qualifier Unit %Rec Limits Limit D Benzene 0.100 0.08247 mg/Kg 82 70 - 130 2 35 Toluene 0.100 0.08858 mg/Kg 89 70 - 130 35 Ethylbenzene 0.100 0.08883 mg/Kg 89 70 - 130 35 m-Xylene & p-Xylene 0.200 0.1891 mg/Kg 95 70 - 130 35 0.100 0.1032 70 - 130 35 o-Xylene mg/Kg 103 8

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 70 - 130 94 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: 880-17008-A-21-C MS Client Sample ID: Matrix Spike **Matrix: Solid**

Analysis Batch: 30015

Prep Batch: 29947 MS MS Sample Sample Spike %Rec Result Qualifier Result Qualifier Added Analyte D %Rec Limits Unit Benzene <0.00201 U F2 F1 0.100 0.01945 F1 19 70 - 130 mg/Kg Toluene < 0.00201 U F2 F1 0.100 0.01816 F1 mg/Kg 18 70 - 130 Ethylbenzene <0.00201 U F2 F1 0.100 0.01493 F1 mg/Kg 14 70 - 130

m-Xylene & p-Xylene <0.00402 U F2 F1 0.200 0.03295 F1 mg/Kg 15 70 - 130 o-Xylene 0.00273 F2 F1 0.100 0.01888 F1 mg/Kg 16 70 - 130 MS MS

%Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 107 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 95

Lab Sample ID: 880-17008-A-21-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 30015

Prep Batch: 29947 Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Result Qualifier Added Limit Analyte Unit %Rec Limits RPD Benzene <0.00201 U F2 F1 0.0998 0.03835 F2 F1 38 70 - 130 65 35 mg/Kg 0.0998 Toluene <0.00201 U F2 F1 0.05746 F2 F1 58 70 - 130104 35 mg/Kg Ethylbenzene <0.00201 U F2 F1 0.0998 0.04190 F2 F1 mg/Kg 41 70 - 130 95 35 m-Xylene & p-Xylene 0.200 <0.00402 U F2 F1 0.05289 F2 F1 mg/Kg 25 70 - 13046 35 o-Xylene 0.00273 F2 F1 0.0998 0.02937 F2 F1 mg/Kg 27 70 - 130 43 35

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Prep Type: Total/NA

Prep Type: Total/NA

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2553-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-17008-A-21-D MSD

Matrix: Solid

Analysis Batch: 30015

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29947

MSD	MSL
0/5	_

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	117	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-29795/1-A

Matrix: Solid

Analysis Batch: 29788

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29795

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 10:08	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 10:08	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 10:08	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/15/22 08:42	07/15/22 10:08	1
o-Terphenyl	103		70 - 130	07/15/22 08:42	07/15/22 10:08	1

Lab Sample ID: LCS 880-29795/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 29788

Prep Type: Total/NA Prep Batch: 29795 LCS LCS Spike %Rec

Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	867.0	mg/K	g	87	70 - 130	
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	990.9	mg/K	g	99	70 - 130	
C10-C28)							

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: LCSD 880-29795/3-A

Released to Imaging: 9/1/2023 3:11:42 PM

Matrix: Solid

Analysis Batch: 29788

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29795

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1009		mg/Kg		101	70 - 130	15	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1041		mg/Kg		104	70 - 130	5	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qual	ifier Limits
1-Chlorooctane	127	70 - 130
o-Terphenyl	128	70 - 130

Job ID: 890-2553-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2553-1 MS

Matrix: Solid

Analysis Batch: 29788

Client Samp	le ID: BH-142 5'
Prer	Type: Total/NA

Prep Batch: 29795

Prep Batch: 29795

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	1000	884.9		mg/Kg		87	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	1000	756.2		mg/Kg		72	70 - 130	
C10-C28)										

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	79		70 - 130

Client Sample ID: BH-142 5' Lab Sample ID: 890-2553-1 MSD Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 29788

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	999	939.7		mg/Kg		92	70 - 130	6	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	999	809.8		mg/Kg		77	70 - 130	7	20
C10-C28)											

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 87 70 - 130 o-Terphenyl 84 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29754/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29864

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/16/22 20:47	1

Lab Sample ID: LCS 880-29754/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29864

	Эріке	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	256.2		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-29754/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29864

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	254.8		mg/Kg		102	90 - 110	1	20	

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-142 5'

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2553-1 MS **Matrix: Solid**

Analysis Batch: 29864

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Chloride 167 F1 248 444.9 F1 mg/Kg 112 90 - 110

Lab Sample ID: 890-2553-1 MSD Client Sample ID: BH-142 5'

Matrix: Solid

Analysis Batch: 29864

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	167	F1	248	444.7	F1	mg/Kg		112	90 - 110	0	20

Lab Sample ID: 890-2553-11 MS Client Sample ID: BH-152 6' **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29864

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	16.0		251	292.7		mg/Kg		110	90 - 110	

Lab Sample ID: 890-2553-11 MSD Client Sample ID: BH-152 6'

Matrix: Solid

Analysis Batch: 29864

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	16.0		251	292.7		mg/Kg		110	90 - 110	0	20

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 29774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-1	BH-142 5'	Total/NA	Solid	5035	
890-2553-2	BH-143 5'	Total/NA	Solid	5035	
890-2553-3	BH-144 5'	Total/NA	Solid	5035	
890-2553-4	BH-145 5'	Total/NA	Solid	5035	
890-2553-5	BH-146 5'	Total/NA	Solid	5035	
890-2553-6	BH-147 6'	Total/NA	Solid	5035	
890-2553-7	BH-148 6'	Total/NA	Solid	5035	
890-2553-8	BH-149 6'	Total/NA	Solid	5035	
890-2553-9	BH-150 6'	Total/NA	Solid	5035	
890-2553-10	BH-151 6'	Total/NA	Solid	5035	
MB 880-29774/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29774/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29774/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2553-1 MS	BH-142 5'	Total/NA	Solid	5035	
890-2553-1 MSD	BH-142 5'	Total/NA	Solid	5035	

Analysis Batch: 29893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-1	BH-142 5'	Total/NA	Solid	8021B	29774
890-2553-2	BH-143 5'	Total/NA	Solid	8021B	29774
890-2553-3	BH-144 5'	Total/NA	Solid	8021B	29774
890-2553-4	BH-145 5'	Total/NA	Solid	8021B	29774
890-2553-5	BH-146 5'	Total/NA	Solid	8021B	29774
890-2553-6	BH-147 6'	Total/NA	Solid	8021B	29774
890-2553-7	BH-148 6'	Total/NA	Solid	8021B	29774
890-2553-8	BH-149 6'	Total/NA	Solid	8021B	29774
890-2553-9	BH-150 6'	Total/NA	Solid	8021B	29774
890-2553-10	BH-151 6'	Total/NA	Solid	8021B	29774
MB 880-29774/5-A	Method Blank	Total/NA	Solid	8021B	29774
LCS 880-29774/1-A	Lab Control Sample	Total/NA	Solid	8021B	29774
LCSD 880-29774/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29774
890-2553-1 MS	BH-142 5'	Total/NA	Solid	8021B	29774
890-2553-1 MSD	BH-142 5'	Total/NA	Solid	8021B	29774

Prep Batch: 29947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-11	BH-152 6'	Total/NA	Solid	5035	
890-2553-12	BH-153 6'	Total/NA	Solid	5035	
390-2553-13	BH-154 6'	Total/NA	Solid	5035	
890-2553-14	BH-155 6'	Total/NA	Solid	5035	
390-2553-15	BH-156 6'	Total/NA	Solid	5035	
390-2553-16	BH-157 6'	Total/NA	Solid	5035	
390-2553-17	BH-158 6'	Total/NA	Solid	5035	
390-2553-18	SW-50 0-6'	Total/NA	Solid	5035	
390-2553-19	SW-51 0-6'	Total/NA	Solid	5035	
390-2553-20	SW-52 0-6'	Total/NA	Solid	5035	
MB 880-29947/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29947/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29947/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
380-17008-A-21-C MS	Matrix Spike	Total/NA	Solid	5035	
380-17008-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2553-1

SDG: Lea County NM

GC VOA

Analysis Batch: 30015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-11	BH-152 6'	Total/NA	Solid	8021B	29947
890-2553-12	BH-153 6'	Total/NA	Solid	8021B	29947
890-2553-13	BH-154 6'	Total/NA	Solid	8021B	29947
890-2553-14	BH-155 6'	Total/NA	Solid	8021B	29947
890-2553-15	BH-156 6'	Total/NA	Solid	8021B	29947
890-2553-16	BH-157 6'	Total/NA	Solid	8021B	29947
890-2553-17	BH-158 6'	Total/NA	Solid	8021B	29947
890-2553-18	SW-50 0-6'	Total/NA	Solid	8021B	29947
890-2553-19	SW-51 0-6'	Total/NA	Solid	8021B	29947
890-2553-20	SW-52 0-6'	Total/NA	Solid	8021B	29947
MB 880-29947/5-A	Method Blank	Total/NA	Solid	8021B	29947
LCS 880-29947/1-A	Lab Control Sample	Total/NA	Solid	8021B	29947
LCSD 880-29947/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29947
880-17008-A-21-C MS	Matrix Spike	Total/NA	Solid	8021B	29947
880-17008-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29947

Analysis Batch: 30030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2553-1	BH-142 5'	Total/NA	Solid	Total BTEX	
890-2553-2	BH-143 5'	Total/NA	Solid	Total BTEX	
890-2553-3	BH-144 5'	Total/NA	Solid	Total BTEX	
890-2553-4	BH-145 5'	Total/NA	Solid	Total BTEX	
890-2553-5	BH-146 5'	Total/NA	Solid	Total BTEX	
890-2553-6	BH-147 6'	Total/NA	Solid	Total BTEX	
890-2553-7	BH-148 6'	Total/NA	Solid	Total BTEX	
890-2553-8	BH-149 6'	Total/NA	Solid	Total BTEX	
890-2553-9	BH-150 6'	Total/NA	Solid	Total BTEX	
890-2553-10	BH-151 6'	Total/NA	Solid	Total BTEX	
890-2553-11	BH-152 6'	Total/NA	Solid	Total BTEX	
890-2553-12	BH-153 6'	Total/NA	Solid	Total BTEX	
890-2553-13	BH-154 6'	Total/NA	Solid	Total BTEX	
890-2553-14	BH-155 6'	Total/NA	Solid	Total BTEX	
890-2553-15	BH-156 6'	Total/NA	Solid	Total BTEX	
890-2553-16	BH-157 6'	Total/NA	Solid	Total BTEX	
890-2553-17	BH-158 6'	Total/NA	Solid	Total BTEX	
890-2553-18	SW-50 0-6'	Total/NA	Solid	Total BTEX	
890-2553-19	SW-51 0-6'	Total/NA	Solid	Total BTEX	
890-2553-20	SW-52 0-6'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 29788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-1	BH-142 5'	Total/NA	Solid	8015B NM	29795
890-2553-2	BH-143 5'	Total/NA	Solid	8015B NM	29795
890-2553-3	BH-144 5'	Total/NA	Solid	8015B NM	29795
890-2553-4	BH-145 5'	Total/NA	Solid	8015B NM	29795
890-2553-5	BH-146 5'	Total/NA	Solid	8015B NM	29795
890-2553-6	BH-147 6'	Total/NA	Solid	8015B NM	29795
890-2553-7	BH-148 6'	Total/NA	Solid	8015B NM	29795
890-2553-8	BH-149 6'	Total/NA	Solid	8015B NM	29795

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Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 29788 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-9	BH-150 6'	Total/NA	Solid	8015B NM	29795
890-2553-10	BH-151 6'	Total/NA	Solid	8015B NM	29795
890-2553-11	BH-152 6'	Total/NA	Solid	8015B NM	29795
890-2553-12	BH-153 6'	Total/NA	Solid	8015B NM	29795
890-2553-13	BH-154 6'	Total/NA	Solid	8015B NM	29795
890-2553-14	BH-155 6'	Total/NA	Solid	8015B NM	29795
890-2553-15	BH-156 6'	Total/NA	Solid	8015B NM	29795
890-2553-16	BH-157 6'	Total/NA	Solid	8015B NM	29795
890-2553-17	BH-158 6'	Total/NA	Solid	8015B NM	29795
890-2553-18	SW-50 0-6'	Total/NA	Solid	8015B NM	29795
890-2553-19	SW-51 0-6'	Total/NA	Solid	8015B NM	29795
890-2553-20	SW-52 0-6'	Total/NA	Solid	8015B NM	29795
MB 880-29795/1-A	Method Blank	Total/NA	Solid	8015B NM	29795
LCS 880-29795/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29795
LCSD 880-29795/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29795
890-2553-1 MS	BH-142 5'	Total/NA	Solid	8015B NM	29795
890-2553-1 MSD	BH-142 5'	Total/NA	Solid	8015B NM	29795

Prep Batch: 29795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2553-1	BH-142 5'	Total/NA	Solid	8015NM Prep	
890-2553-2	BH-143 5'	Total/NA	Solid	8015NM Prep	
890-2553-3	BH-144 5'	Total/NA	Solid	8015NM Prep	
890-2553-4	BH-145 5'	Total/NA	Solid	8015NM Prep	
890-2553-5	BH-146 5'	Total/NA	Solid	8015NM Prep	
890-2553-6	BH-147 6'	Total/NA	Solid	8015NM Prep	
890-2553-7	BH-148 6'	Total/NA	Solid	8015NM Prep	
890-2553-8	BH-149 6'	Total/NA	Solid	8015NM Prep	
890-2553-9	BH-150 6'	Total/NA	Solid	8015NM Prep	
890-2553-10	BH-151 6'	Total/NA	Solid	8015NM Prep	
890-2553-11	BH-152 6'	Total/NA	Solid	8015NM Prep	
890-2553-12	BH-153 6'	Total/NA	Solid	8015NM Prep	
890-2553-13	BH-154 6'	Total/NA	Solid	8015NM Prep	
890-2553-14	BH-155 6'	Total/NA	Solid	8015NM Prep	
890-2553-15	BH-156 6'	Total/NA	Solid	8015NM Prep	
890-2553-16	BH-157 6'	Total/NA	Solid	8015NM Prep	
890-2553-17	BH-158 6'	Total/NA	Solid	8015NM Prep	
890-2553-18	SW-50 0-6'	Total/NA	Solid	8015NM Prep	
890-2553-19	SW-51 0-6'	Total/NA	Solid	8015NM Prep	
890-2553-20	SW-52 0-6'	Total/NA	Solid	8015NM Prep	
MB 880-29795/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29795/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29795/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2553-1 MS	BH-142 5'	Total/NA	Solid	8015NM Prep	
890-2553-1 MSD	BH-142 5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-1	BH-142 5'	Total/NA	Solid	8015 NM	
890-2553-2	BH-143 5'	Total/NA	Solid	8015 NM	
890-2553-3	BH-144 5'	Total/NA	Solid	8015 NM	

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Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 29911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-4	BH-145 5'	Total/NA	Solid	8015 NM	
890-2553-5	BH-146 5'	Total/NA	Solid	8015 NM	
890-2553-6	BH-147 6'	Total/NA	Solid	8015 NM	
890-2553-7	BH-148 6'	Total/NA	Solid	8015 NM	
890-2553-8	BH-149 6'	Total/NA	Solid	8015 NM	
890-2553-9	BH-150 6'	Total/NA	Solid	8015 NM	
890-2553-10	BH-151 6'	Total/NA	Solid	8015 NM	
890-2553-11	BH-152 6'	Total/NA	Solid	8015 NM	
890-2553-12	BH-153 6'	Total/NA	Solid	8015 NM	
890-2553-13	BH-154 6'	Total/NA	Solid	8015 NM	
890-2553-14	BH-155 6'	Total/NA	Solid	8015 NM	
890-2553-15	BH-156 6'	Total/NA	Solid	8015 NM	
890-2553-16	BH-157 6'	Total/NA	Solid	8015 NM	
890-2553-17	BH-158 6'	Total/NA	Solid	8015 NM	
890-2553-18	SW-50 0-6'	Total/NA	Solid	8015 NM	
890-2553-19	SW-51 0-6'	Total/NA	Solid	8015 NM	
890-2553-20	SW-52 0-6'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 29754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2553-1	BH-142 5'	Soluble	Solid	DI Leach	
890-2553-2	BH-143 5'	Soluble	Solid	DI Leach	
390-2553-3	BH-144 5'	Soluble	Solid	DI Leach	
890-2553-4	BH-145 5'	Soluble	Solid	DI Leach	
390-2553-5	BH-146 5'	Soluble	Solid	DI Leach	
890-2553-6	BH-147 6'	Soluble	Solid	DI Leach	
890-2553-7	BH-148 6'	Soluble	Solid	DI Leach	
890-2553-8	BH-149 6'	Soluble	Solid	DI Leach	
390-2553-9	BH-150 6'	Soluble	Solid	DI Leach	
890-2553-10	BH-151 6'	Soluble	Solid	DI Leach	
890-2553-11	BH-152 6'	Soluble	Solid	DI Leach	
390-2553-12	BH-153 6'	Soluble	Solid	DI Leach	
390-2553-13	BH-154 6'	Soluble	Solid	DI Leach	
390-2553-14	BH-155 6'	Soluble	Solid	DI Leach	
390-2553-15	BH-156 6'	Soluble	Solid	DI Leach	
390-2553-16	BH-157 6'	Soluble	Solid	DI Leach	
890-2553-17	BH-158 6'	Soluble	Solid	DI Leach	
390-2553-18	SW-50 0-6'	Soluble	Solid	DI Leach	
390-2553-19	SW-51 0-6'	Soluble	Solid	DI Leach	
390-2553-20	SW-52 0-6'	Soluble	Solid	DI Leach	
MB 880-29754/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29754/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29754/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2553-1 MS	BH-142 5'	Soluble	Solid	DI Leach	
890-2553-1 MSD	BH-142 5'	Soluble	Solid	DI Leach	
890-2553-11 MS	BH-152 6'	Soluble	Solid	DI Leach	
890-2553-11 MSD	BH-152 6'	Soluble	Solid	DI Leach	

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Released to Imaging: 9/1/2023 3:11:42 PM

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2553-1

SDG: Lea County NM

HPLC/IC

Analysis Batch: 29864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-1	BH-142 5'	Soluble	Solid	300.0	29754
890-2553-2	BH-143 5'	Soluble	Solid	300.0	29754
890-2553-3	BH-144 5'	Soluble	Solid	300.0	29754
890-2553-4	BH-145 5'	Soluble	Solid	300.0	29754
890-2553-5	BH-146 5'	Soluble	Solid	300.0	29754
890-2553-6	BH-147 6'	Soluble	Solid	300.0	29754
890-2553-7	BH-148 6'	Soluble	Solid	300.0	29754
890-2553-8	BH-149 6'	Soluble	Solid	300.0	29754
890-2553-9	BH-150 6'	Soluble	Solid	300.0	29754
890-2553-10	BH-151 6'	Soluble	Solid	300.0	29754
890-2553-11	BH-152 6'	Soluble	Solid	300.0	29754
890-2553-12	BH-153 6'	Soluble	Solid	300.0	29754
890-2553-13	BH-154 6'	Soluble	Solid	300.0	29754
890-2553-14	BH-155 6'	Soluble	Solid	300.0	29754
890-2553-15	BH-156 6'	Soluble	Solid	300.0	29754
890-2553-16	BH-157 6'	Soluble	Solid	300.0	29754
890-2553-17	BH-158 6'	Soluble	Solid	300.0	29754
890-2553-18	SW-50 0-6'	Soluble	Solid	300.0	29754
890-2553-19	SW-51 0-6'	Soluble	Solid	300.0	29754
890-2553-20	SW-52 0-6'	Soluble	Solid	300.0	29754
MB 880-29754/1-A	Method Blank	Soluble	Solid	300.0	29754
LCS 880-29754/2-A	Lab Control Sample	Soluble	Solid	300.0	29754
LCSD 880-29754/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29754
890-2553-1 MS	BH-142 5'	Soluble	Solid	300.0	29754
890-2553-1 MSD	BH-142 5'	Soluble	Solid	300.0	29754
890-2553-11 MS	BH-152 6'	Soluble	Solid	300.0	29754
890-2553-11 MSD	BH-152 6'	Soluble	Solid	300.0	29754

Job ID: 890-2553-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2553-1

Matrix: Solid

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Client Sample ID: BH-142 5'

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 12:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 11:12	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 21:15	CH	XEN MID

Client Sample ID: BH-143 5' Lab Sample ID: 890-2553-2

Date Collected: 07/12/22 00:00 Matrix: Solid

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 12:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 12:16	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 21:42	CH	XEN MID

Client Sample ID: BH-144 5' Lab Sample ID: 890-2553-3

Date Collected: 07/12/22 00:00 **Matrix: Solid** Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 13:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 14:02	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 21:52	CH	XEN MID

Client Sample ID: BH-145 5' Lab Sample ID: 890-2553-4

Date Collected: 07/12/22 00:00 **Matrix: Solid** Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 13:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-145 5'

Lab Sample ID: 890-2553-4 Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 12:37	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 22:01	CH	XEN MID

Client Sample ID: BH-146 5' Lab Sample ID: 890-2553-5

Date Collected: 07/12/22 00:00 **Matrix: Solid**

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 13:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 12:58	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29754	07/14/22 12:47	SMC	XEN MIC
Soluble	Analysis	300.0		1			29864	07/16/22 22:10	CH	XEN MID

Client Sample ID: BH-147 6' Lab Sample ID: 890-2553-6

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 14:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 15:52	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 22:38	CH	XEN MID

Client Sample ID: BH-148 6' Lab Sample ID: 890-2553-7

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 14:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	29795 29788	07/15/22 08:42 07/15/22 14:24	DM SM	XEN MID XEN MID

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Matrix: Solid

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-148 6'

Lab Sample ID: 890-2553-7 Date Collected: 07/12/22 00:00 Matrix: Solid Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 22:47	CH	XEN MID

Client Sample ID: BH-149 6' Lab Sample ID: 890-2553-8

Date Collected: 07/12/22 00:00 **Matrix: Solid**

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 14:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 17:38	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 22:56	CH	XEN MID

Client Sample ID: BH-150 6' Lab Sample ID: 890-2553-9

Date Collected: 07/12/22 00:00 **Matrix: Solid**

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 15:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 17:17	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 23:05	CH	XEN MID

Client Sample ID: BH-151 6' Lab Sample ID: 890-2553-10

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 15:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 16:56	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 23:15	CH	XEN MID

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Matrix: Solid

Job ID: 890-2553-1 SDG: Lea County NM

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Client Sample ID: BH-152 6' Lab Sample ID: 890-2553-11

Date Collected: 07/12/22 00:00 Matrix: Solid
Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 17:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 18:42	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 23:24	CH	XEN MID

Client Sample ID: BH-153 6'

Date Collected: 07/12/22 00:00

Lab Sample ID: 890-2553-12

Matrix: Solid

Date Received: 07/12/22 16:57

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 29947 Total/NA 4.99 g 5 mL 07/18/22 13:40 MR XEN MID Total/NA 8021B 5 mL 30015 07/19/22 17:57 XEN MID Analysis 1 5 mL MR Total/NA Total BTEX 30030 07/19/22 09:14 XEN MID Analysis 1 SM Total/NA Analysis 8015 NM 29911 07/18/22 09:27 SM XEN MID Total/NA 29795 07/15/22 08:42 XEN MID Prep 8015NM Prep 10.02 g DM 10 mL Total/NA Analysis 8015B NM 29788 07/15/22 15:06 SM XEN MID Soluble 29754 07/14/22 12:47 XEN MID Leach DI Leach 5.02 g 50 mL SMC Soluble Analysis 300.0 29864 07/16/22 23:51 СН XEN MID

Client Sample ID: BH-154 6'

Date Collected: 07/12/22 00:00

Lab Sample ID: 890-2553-13

Matrix: Solid

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 18:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 13:41	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 00:01	CH	XEN MID

Client Sample ID: BH-155 6'

Date Collected: 07/12/22 00:00

Lab Sample ID: 890-2553-14

Matrix: Solid

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 18:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID

Eurofins Carlsbad

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Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-155 6'

Lab Sample ID: 890-2553-14 Date Collected: 07/12/22 00:00 Matrix: Solid

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 14:45	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 00:29	CH	XEN MID

Client Sample ID: BH-156 6' Lab Sample ID: 890-2553-15

Date Collected: 07/12/22 00:00 **Matrix: Solid**

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 18:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 17:59	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 00:38	CH	XEN MID

Client Sample ID: BH-157 6' Lab Sample ID: 890-2553-16

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 19:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 19:03	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 00:47	CH	XEN MID

Lab Sample ID: 890-2553-17 Client Sample ID: BH-158 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

=	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 20:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		5			29788	07/15/22 13:19	SM	XEN MID

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Job ID: 890-2553-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-158 6' Lab Sample ID: 890-2553-17 Date Collected: 07/12/22 00:00 Matrix: Solid

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 00:56	CH	XEN MID

Client Sample ID: SW-50 0-6' Lab Sample ID: 890-2553-18

Date Collected: 07/12/22 00:00 **Matrix: Solid**

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 19:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 18:21	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 01:06	CH	XEN MID

Client Sample ID: SW-51 0-6' Lab Sample ID: 890-2553-19

Date Collected: 07/12/22 00:00 **Matrix: Solid** Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 20:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 19:24	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 01:15	CH	XEN MID

Client Sample ID: SW-52 0-6' Lab Sample ID: 890-2553-20

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 20:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29795	07/15/22 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 16:13	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 01:24	CH	XEN MID

Eurofins Carlsbad

Matrix: Solid

Lab Chronicle

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2553-1 SDG: Lea County NM

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report by	it the leberatory is not cortifi	ed by the governing authority. This list ma	arrimalizada amaliztaa farr
the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list his	ay include arialytes for
0 ,	• •	Matrix	Analyte	ay include analytes for
the agency does not of	fer certification.	•	, , ,	ay include analytes for

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2553-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2553-1	BH-142 5'	Solid	07/12/22 00:00	07/12/22 16:57	5'
890-2553-2	BH-143 5'	Solid	07/12/22 00:00	07/12/22 16:57	5'
890-2553-3	BH-144 5'	Solid	07/12/22 00:00	07/12/22 16:57	5'
890-2553-4	BH-145 5'	Solid	07/12/22 00:00	07/12/22 16:57	5'
890-2553-5	BH-146 5'	Solid	07/12/22 00:00	07/12/22 16:57	5'
890-2553-6	BH-147 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-7	BH-148 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-8	BH-149 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-9	BH-150 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-10	BH-151 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-11	BH-152 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-12	BH-153 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-13	BH-154 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-14	BH-155 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-15	BH-156 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-16	BH-157 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-17	BH-158 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-18	SW-50 0-6'	Solid	07/12/22 00:00	07/12/22 16:57	0' - 6'
890-2553-19	SW-51 0-6'	Solid	07/12/22 00:00	07/12/22 16:57	0' - 6'
890-2553-20	SW-52 0-6'	Solid	07/12/22 00:00	07/12/22 16:57	0' - 6'

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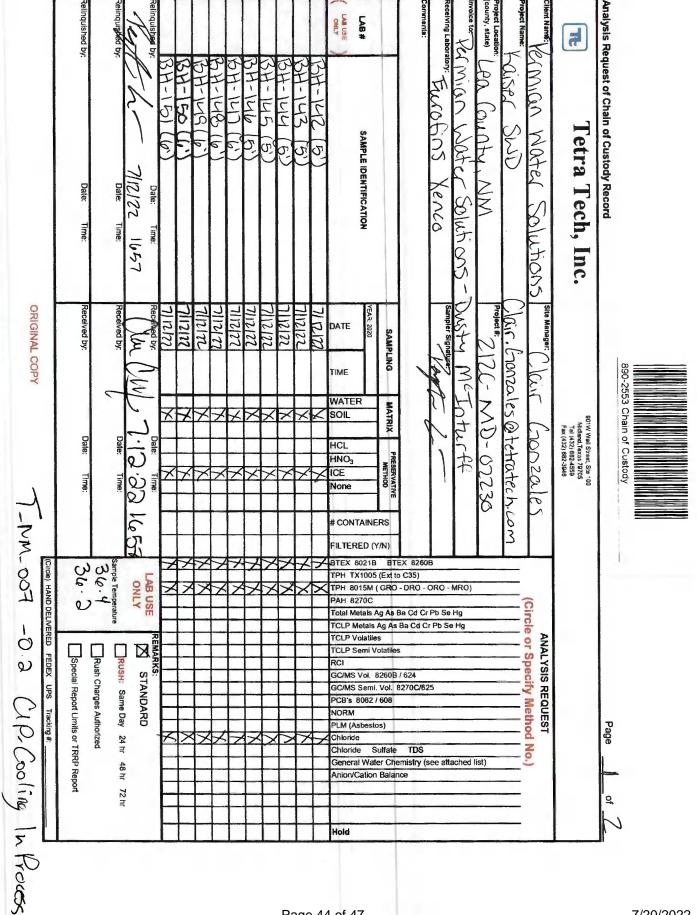
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LAB#

Tetra Tech, Inc. Control of Sea Manager Control of Specify Method No.		Relinquished by:		Relinquisced by:	1	Relinquished by:											(CHLY)	E #		Comments:	Receiving Laboratory:	Invoice to: Per	(county, state)	Project Name.	Client Name:	급
Time: Circle or Specify Method No. Control of the proper to the pro				(1		- 4		SW-50/	58	\sim				$\overline{}$						\	,		Sec	ermin	
Sampler Separation Sample		1			`_	Date: Time:)-(0`)	6.)	(b)	6,)	o^{1}	a)	6)	a'/		SAMPLE IDENTIFICATION			,		F	SWID ON THE	hootes,	Гetra Tech, Ir
WATER MATRIX MATRIX MATRIX MALYSIS REQUEST Televisions Size 0 ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST TOLE Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi-Volatiles TCLP Sem		Received by:		Received by:			711117	12/2/16	17(11172)	21211	711712	71/12/72	りわれ	7/17/17	7/12/22	17/12/22		YEAR: 2020	SAMPLING		Sampler Signature:	9	222		Site Manager:	ic.
# 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 Volatiles TCLP Volatiles TCLP Semi Volatiles RUSH STANDARD SPECIFY Method No. RUSH: Same Day 24 hr 48 hr Anion/Cation Balance # CONTAINERS FILTERED (Y/N) ANALYSIS REQUEST TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles RCI RUSH STANDARD PCB's 8082 / 608 NORM PLM (Asbestos) Chloride Chloride Chloride Chloride Chloride Anion/Cation Balance				1	E		<i>Y</i>	- X	×	X	X Z	X	X	7	7	≠	HCL HNO ₃		_		aft h	Intu				901W Wall Street, Ste 100 Milderd, Texas 79705 Tel (432) 682-4559 Fax (432) 882-3446
TCLP Semi Volatiles Specify Method RCI RCI RCI RCI RCI RCI RCI RC																			RS						S	
TCLP Semi Volatiles Specify Recommendation of the period	(Circle) HAND DELIVE		Sample Tempinature	Tanada Tanada	ONLY	LAB USE		ア ア	\rangle \rangl	ブチー	X X	7	Z	7	7	7	TPH T) TPH 80 PAH 82 Total M	(1005 15M (270C etals A	(Ext to GRO	o C35) - DRO - Ba Cd C	ORO - Pb Se	Hg			(Circle	
Chloride Chloride Chloride Chloride Chloride Sulfate TDS General Water Chemistry (see affached list) Anion/Cation Balance	FEDEX UPS	Special Report	Rush Charges	RUSH: Same	Z SIAMO	REMARKS:											TCLP S RCI GC/MS GC/MS PCB's	emi V Vol. 8 Semi.	olatile 3260B Vol.	/ 624	25				ANALYSIS REQU	
72 hr	Tracking #:	Limits or TRRP Repo	Authorized	24 hr 48 hr		5	X	7	7	X	X	7	 	7		17	PLM (A Chlorid Chlorid Genera	e S I Wate	ulfate er Ch	emistry (see atta	ached	list)		2	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-2553-1 SDG Number: Lea County NM

Login Number: 2553

List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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.	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	

Released to Imaging: 9/1/2023 3:11:42 PM

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2553-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Source: Eurotins Midland
List Creation: 07/14/22 10:49 AM

Login Number: 2553 List Number: 2

Creator: Rodriguez, Leticia

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 Carlsbad

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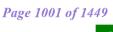
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ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2689-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

Revision: 1

For:

eurofins 🔆

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMPR

Authorized for release by: 8/11/2022 8:29:02 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Received by OCD: 8/29/2023 3:37:34 PM

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/1/2023 3:11:42 PM

.....LINKS

Review your project results through

EOL

Have a Question?

Results relate only to the items tested and the sample(s) as received by the laboratory.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2689-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-2689-1

Project/Site: Kaiser SWD

SDG: Lea County NM

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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 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.

Eisted 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/Site: Kaiser SWD

Job ID: 890-2689-1

SDG: Lea County NM

Job ID: 890-2689-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2689-1

REVISION

The report being provided is a revision of the original report sent on 8/8/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID edit.

Report revision history

Receipt

The samples were received on 7/29/2022 2:06 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 15.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31669 and analytical batch 880-31654 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-159 (8') (890-2689-6) and BH-160 (8') (890-2689-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31669 and analytical batch 880-31654 were outside control limits. Sample matrix interference and/or non-homogeneity are 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.

GC Semi VOA

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.

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Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-118 (13')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/05/22 11:19	08/06/22 01:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/05/22 11:19	08/06/22 01:44	1
Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	II	0.00404		mg/Kg			08/08/22 14:27	

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 08/04/22 09:51 **Total TPH** 247 49.9 mg/Kg

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/03/22 22:32	1
Diesel Range Organics (Over C10-C28)	247		49.9		mg/Kg		08/03/22 09:25	08/03/22 22:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/03/22 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/03/22 09:25	08/03/22 22:32	1
o-Terphenyl	94		70 - 130				08/03/22 09:25	08/03/22 22:32	1

Method: 300.0 - Anions, Ion Ch	romatogra	phy - Solub	ole						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	263		5.03		mg/Kg			08/06/22 06:13	1

Lab Sample ID: 890-2689-2 Client Sample ID: BH-119 (10') Date Collected: 07/26/22 12:00 **Matrix: Solid** Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/22 11:19	08/06/22 00:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/22 11:19	08/06/22 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/05/22 11:19	08/06/22 00:22	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/05/22 11:19	08/06/22 00:22	1

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-119 (10')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-2

Lab Sample ID: 890-2689-3

Matrix: Solid

Matrix: Solid

Method: Total BTEX - Total BT	EX Calculation
Analyte	Result Qualifie

Analyte	Result	Qualifier	RL	MDL	Unit	Į.	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg				08/08/22 14:27	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qualit	tier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			08/04/22 09:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualitier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/03/22 20:23	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/03/22 20:23	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/03/22 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Gasoline Range Organics <49.9 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 C10-C28) Oll Range Organics (Over C28-C36) <49.9	Gasoline Range Organics <49.9 U (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) <49.9 U	Gasoline Range Organics	Gasoline Range Organics	(GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg	Gasoline Range Organics	Gasoline Range Organics	Gasoline Range Organics

Surroyale	70Kecovery	Qualifier	LIIIIII	
1-Chlorooctane	99		70 - 130	
o-Terphenyl	113		70 - 130	

1-Chlorooctane	99	70 - 130	08/03/22 09:25	08/03/22 20:23	1
o-Terphenyl	113	70 - 130	08/03/22 09:25	08/03/22 20:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier R		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	382	25	1	mg/Kg			08/06/22 06:41	5

Client Sample ID: BH-158 (8')

Date Collected: 07/26/22 12:00

Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 00:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 00:42	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 00:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 00:42	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 00:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				08/05/22 11:19	08/06/22 00:42	1
1,4-Difluorobenzene (Surr)	93		70 - 130				08/05/22 11:19	08/06/22 00:42	1

Released to Imaging: 9/1/2023 3:11:42 PM

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	ma/Ka			08/08/22 14:27	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/04/22 09:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

	ago	,						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/03/22 09:25	08/03/22 23:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/03/22 09:25	08/03/22 23:57	1
C10-C28)								

Client: Tetra Tech, Inc.

Job ID: 890-2689-1

Project/Site: Kaiser SWD SDG: Lea County NM Client Sample ID: BH-158 (8') Lab Sample ID: 890-2689-3

Date Collected: 07/26/22 12:00 **Matrix: Solid** Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/03/22 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/03/22 09:25	08/03/22 23:57	1
o-Terphenyl	88		70 - 130				08/03/22 09:25	08/03/22 23:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chloride 5.00 08/06/22 06:50 99.8 mg/Kg

Client Sample ID: SW-50 (0-6') Lab Sample ID: 890-2689-4 Date Collected: 07/26/22 12:00 **Matrix: Solid** Date Received: 07/29/22 14:06

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier MDL Unit Dil Fac RL Prepared Analyzed Benzene <0.00201 U 0.00201 08/05/22 11:19 08/06/22 01:03 mg/Kg Toluene <0.00201 U 0.00201 mg/Kg 08/05/22 11:19 08/06/22 01:03 Ethylbenzene <0.00201 U 0.00201 mg/Kg 08/05/22 11:19 08/06/22 01:03 0.00402 08/06/22 01:03 m-Xylene & p-Xylene <0.00402 U mg/Kg 08/05/22 11:19 o-Xylene <0.00201 U 0.00201 mg/Kg 08/05/22 11:19 08/06/22 01:03 Xylenes, Total <0.00402 U 0.00402 mg/Kg 08/05/22 11:19 08/06/22 01:03 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 117 70 - 130 08/05/22 11:19 08/06/22 01:03 1,4-Difluorobenzene (Surr) 89 70 - 130 08/05/22 11:19 08/06/22 01:03 Method: 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			08/08/22 14:27	1
Method: 8015 NM - Diesel R	ange Organics (DRO) (GC)					

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/04/22 09:51	1
_									
Mothadi 004ED NM Diago	Donne Ornen	ine (DDO) (C	· C \						
Method: 8015B NM - Diese	l Range Organi	ics (DRO) (G	iC)						
Method: 8015B NM - Diesel Analyte	•	ics (DRO) (G Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>		Analyzed 08/04/22 00:58	Dil Fac

49.8

mg/Kg

Oll Range Organics (Over C28-C36)	<49.8 U	49.8	mg/Kg	08/03/22 09:25	08/04/22 00:58	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	90	70 - 130		08/03/22 09:25	08/04/22 00:58	1
o-Terphenyl	96	70 - 130		08/03/22 09:25	08/04/22 00:58	1

<49.8 U

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	52.0		4.97		mg/Kg			08/06/22 07:00	1

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08/03/22 09:25 08/04/22 00:58

Diesel Range Organics (Over

C10-C28)

Client: Tetra Tech, Inc.

Job ID: 890-2689-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-51 (0-6')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06 Lab Sample ID: 890-2689-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:23	1
Toluene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:23	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 01:23	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				08/05/22 11:19	08/06/22 01:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/05/22 11:19	08/06/22 01:23	1
-									
Method: Total RTEX - Total	I RTEX Calcula	tion							
Method: Total BTEX - Tota Analyte		tion Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/08/22 14:27	Dil Fac
Analyte Total BTEX	<0.00402	Qualifier U	0.00402	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel	Result <0.00402	Qualifier U	0.00402			<u>D</u>	Prepared Prepared		1
Analyte	Result <0.00402	Qualifier U s (DRO) (C	0.00402		mg/Kg	=		08/08/22 14:27	1
Analyte Total BTEX Method: 8015 NM - Diesel Analyte	Result <0.00402	Qualifier U S (DRO) (C Qualifier U	0.00402 GC) RL 50.0		mg/Kg	=		08/08/22 14:27 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Analyte Total TPH	Result <0.00402 Range Organic Result <50.0	Qualifier U S (DRO) (C Qualifier U	0.00402 GC) RL 50.0		mg/Kg Unit mg/Kg	=		08/08/22 14:27 Analyzed	Dil Fac Dil Fac Dil Fac

(GRO)-C6-C10							
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg	08/03/22 09:25	08/04/22 01:18	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	08/03/22 09:25	08/04/22 01:18	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130		08/03/22 09:25	08/04/22 01:18	
o-Ternhenyl	01		70 130		08/03/22 00:25	08/04/22 01:18	1

o respiration	0,		70-700				00/00/22 00:20	00/0 1/22 01.10	•
Method: 300.0 - Anions, Ion Ch	romatograp	hy - Solut	ole						
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		4.97		mg/Kg			08/06/22 07:09	1

Client Sample ID: BH-159 (8')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2689-6

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 02:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 02:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 02:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/05/22 11:19	08/06/22 02:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 02:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/05/22 11:19	08/06/22 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				08/05/22 11:19	08/06/22 02:46	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/05/22 11:19	08/06/22 02:46	1

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1.0

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Client Sample Results

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2689-1

SDG: Lea County NM

Client Sample ID: BH-159 (8')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2689-6

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/08/22 14:27	1
Method: 8015 NM - Diesel F	Range Organic	s (DRO) (G	iC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.9		50.0		mg/Kg			08/04/22 09:51	1
Method: 8015B NM - Diesel Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
	rtungo Organi	ics (Bitc) ((30)						
Analyte	Result	Qualifier	RL	MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics		Qualifier	• •	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/03/22 09:25	Analyzed 08/03/22 22:53	Dil Fac
Analyte	Result	Qualifier U	RL	MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	08/03/22 09:25	08/03/22 22:53	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result < 50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	08/03/22 09:25 08/03/22 09:25	08/03/22 22:53	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	08/03/22 09:25 08/03/22 09:25	08/03/22 22:53 08/03/22 22:53	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result <50.0 <50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u> </u>	08/03/22 09:25 08/03/22 09:25	08/03/22 22:53 08/03/22 22:53	Dil Fac

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac O8/06/22 07:36 55

Client Sample ID: BH-160 (8')

Lab Sample ID: 890-2689-7

70 - 130

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

o-Terphenyl

_ Method: 8021B - Volatile O	rganic Compo	unde (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 03:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 03:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 03:06	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399		mg/Kg		08/05/22 11:19	08/06/22 03:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 03:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/22 11:19	08/06/22 03:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				08/05/22 11:19	08/06/22 03:06	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/05/22 11:19	08/06/22 03:06	1
Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/22 14:27	1
- Method: 8015 NM - Diesel F	Range Organic	s (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	217		50.0		mg/Kg			08/04/22 09:51	1

Method: 8015B NM - Diesel Ra	nge Organi	cs (DRO) ((GC)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/03/22 09:25	08/03/22 21:49	1
(GRO)-C6-C10								

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Matrix: Solid

Job ID: 890-2689-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Lab Sample ID: 890-2689-7 Client Sample ID: BH-160 (8') Date Collected: 07/26/22 12:00

Matrix: Solid

Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	133		50.0		mg/Kg		08/03/22 09:25	08/03/22 21:49	1
Oll Range Organics (Over C28-C36)	83.6		50.0		mg/Kg		08/03/22 09:25	08/03/22 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/03/22 09:25	08/03/22 21:49	1
o-Terphenyl	91		70 - 130				08/03/22 09:25	08/03/22 21:49	1
Method: 300.0 - Anions, Ion	Chromatogra	phy - Solu	ıble						
	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	itesuit	aaao.						,	

Client Sample ID: BH-161 (8') Lab Sample ID: 890-2689-8 Date Collected: 07/26/22 12:00 Matrix: Solid

Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 03:27	
Toluene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 03:27	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 03:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 03:27	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 03:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/05/22 11:19	08/06/22 03:27	1
1,4-Difluorobenzene (Surr)	77		70 - 130				08/05/22 11:19	08/06/22 03:27	1
Method: Total BTEX - Total I	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte	ittosuit	Quanner	116					, . .,	
Total BTEX	<0.00398		0.00398		mg/Kg	— <u> </u>		08/08/22 14:27	
	<0.00398	U	0.00398						
Total BTEX	<0.00398	U	0.00398				Prepared		1
Total BTEX Method: 8015 NM - Diesel R	<0.00398	U (DRO) (C	0.00398		mg/Kg		<u> </u>	08/08/22 14:27	Dil Fac
Total BTEX Method: 8015 NM - Diesel Ranalyte Total TPH	<0.00398 ange Organic Result 218	es (DRO) (C	0.00398 GC) RL 49.9		mg/Kg Unit		<u> </u>	08/08/22 14:27 Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Ranalyte Total TPH Method: 8015B NM - Diesel	<0.00398 ange Organic Result 218 Range Organ	es (DRO) (C	0.00398 GC) RL 49.9	MDL	mg/Kg Unit		<u> </u>	08/08/22 14:27 Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel R Analyte	<0.00398 ange Organic Result 218 Range Organ	es (DRO) (C Qualifier ics (DRO) Qualifier	0.00398 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	08/08/22 14:27 Analyzed 08/04/22 09:51	Dil Fac
Total BTEX Method: 8015 NM - Diesel Ranalyte Total TPH Method: 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00398 ange Organic Result 218 Range Organ Result	es (DRO) (C Qualifier ics (DRO) Qualifier	0.00398 CO RL 49.9 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	08/08/22 14:27 Analyzed 08/04/22 09:51 Analyzed 08/03/22 22:11	Dil Fac
Total BTEX Method: 8015 NM - Diesel Ranalyte Total TPH Method: 8015B NM - Diesel Analyte Gasoline Range Organics	<0.00398 ange Organic Result 218 Range Organ Result <49.9	es (DRO) (C Qualifier ics (DRO) Qualifier	0.00398 RL 49.9 (GC) RL 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 08/03/22 09:25 08/03/22 09:25	08/08/22 14:27 Analyzed 08/04/22 09:51 Analyzed 08/03/22 22:11	Dil Fac
Total BTEX Method: 8015 NM - Diesel Ranalyte Total TPH Method: 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	<0.00398 ange Organic Result 218 Range Organ Result <49.9 147	S (DRO) (C Qualifier ics (DRO) Qualifier U	0.00398 RL 49.9 (GC) RL 49.9 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 08/03/22 09:25 08/03/22 09:25	08/08/22 14:27 Analyzed 08/04/22 09:51 Analyzed 08/03/22 22:11 08/03/22 22:11 08/03/22 22:11	Dil Fac
Total BTEX Method: 8015 NM - Diesel Ranalyte Total TPH Method: 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00398 ange Organic Result 218 Range Organ Result <49.9 147 71.4	S (DRO) (C Qualifier ics (DRO) Qualifier U	0.00398 RL 49.9 (GC) RL 49.9 49.9 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 08/03/22 09:25 08/03/22 09:25 08/03/22 09:25	08/08/22 14:27 Analyzed 08/04/22 09:51 Analyzed 08/03/22 22:11 08/03/22 22:11 08/03/22 22:11	Dil Fac Dil Fac 1 Dil Fac 1

Client Sample ID: BH-161 (8') Lab Sample ID: 890-2689-8

Date Collected: 07/26/22 12:00 **Matrix: Solid** Date Received: 07/29/22 14:06

Method: 300.0 - Anions, Ion Ch	nromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	515		25.0		mg/Kg			08/06/22 07:55	5

Client Sample ID: BH-162 (8') Lab Sample ID: 890-2689-9 REMOVED FROM Date Collected: 07/26/22 12:00 **Matrix: Solid**

ANALYSIS TABLE Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:05	-
Toluene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:05	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:05	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 02:05	
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:05	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 02:05	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				08/05/22 11:19	08/06/22 02:05	
1,4-Difluorobenzene (Surr)	87		70 - 130				08/05/22 11:19	08/06/22 02:05	
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/22 14:27	
Mothod: 9015 NM Diocol Do	nao Oraanio	c (DBO) (C	20)						
Method: 8015 NM - Diesel Ra Analyte Total TPH	•	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed 08/04/22 09:51	Dil Fa
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel R	Result <49.9	Qualifier U	RL 49.9 (GC)		mg/Kg			08/04/22 09:51	
Analyte Total TPH Method: 8015B NM - Diesel R Analyte	Result <49.9 cange Organ Result	Qualifier U ics (DRO) Qualifier	(GC)	MDL MDL	mg/Kg Unit	<u>D</u>	Prepared	08/04/22 09:51 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <49.9	Qualifier U ics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg			08/04/22 09:51	
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 cange Organ Result	Qualifier U ics (DRO) Qualifier U	(GC)		mg/Kg Unit		Prepared 08/03/22 09:25	08/04/22 09:51 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 Range Organ Result <49.9	Qualifier U ics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9		mg/Kg Unit mg/Kg		Prepared 08/03/22 09:25 08/03/22 09:25	08/04/22 09:51 Analyzed 08/04/22 00:18	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U ics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/22 09:25 08/03/22 09:25	08/04/22 09:51 Analyzed 08/04/22 00:18 08/04/22 00:18	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U ics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/22 09:25 08/03/22 09:25	08/04/22 09:51 Analyzed 08/04/22 00:18 08/04/22 00:18 08/04/22 00:18	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U ics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/22 09:25 08/03/22 09:25 08/03/22 09:25 Prepared 08/03/22 09:25	08/04/22 09:51 Analyzed 08/04/22 00:18 08/04/22 00:18 08/04/22 00:18 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U Compared to the c	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/22 09:25 08/03/22 09:25 08/03/22 09:25 Prepared 08/03/22 09:25	08/04/22 09:51 Analyzed 08/04/22 00:18 08/04/22 00:18 08/04/22 00:18 Analyzed 08/04/22 00:18	Dil Fa

Chloride 08/06/22 08:04 106 24.9 mg/Kg Lab Sample ID: 890-2689-10 Client Sample ID: BH-163 (8')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Method: 8021B - Volatile Organic	Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:25	1

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Matrix: Solid

Client Sample ID: BH-163 (8') Lab Sample ID: 890-2689-10

Date Collected: 07/26/22 12:00 **Matrix: Solid** Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 02:25	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 02:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				08/05/22 11:19	08/06/22 02:25	1
1,4-Difluorobenzene (Surr)	82		70 - 130				08/05/22 11:19	08/06/22 02:25	1
- Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/22 14:27	1
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (0	3C)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg		<u>-</u>	08/04/22 09:51	1
Method: 8015B NM - Diesel R	ango Organ	ice (DPO)	(CC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/03/22 23:37	1
Casoline range Organics									
(GRO)-C6-C10									
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/03/22 23:37	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)					0 0				1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0		50.0 50.0		mg/Kg		08/03/22 09:25 08/03/22 09:25	08/03/22 23:37 08/03/22 23:37	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U			0 0				1 1 <i>Dil Fac</i>

	Method: 300.0 - Anions, Ion Ch	romatogra	phy - Solub	ble						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	107		5.02		mg/Kg			08/06/22 08:13	1

70 - 130

Client Sample ID: BH-164 (8') Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

o-Terphenyl

REMOVED FROM ANALYSIS TABLE

104

Lab Sample	ID:	890-2689-11
		Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:34	1
Toluene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:34	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 07:34	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 07:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				08/05/22 11:19	08/06/22 07:34	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/05/22 11:19	08/06/22 07:34	1
- Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	II	0.00402		mg/Kg			08/08/22 14:27	

Job ID: 890-2689-1 SDG: Lea County NM

Project/Site: Kaiser SWD

Client: Tetra Tech, Inc.

Lab Sample ID: 890-2689-11 Client Sample ID: BH-164 (8') Date Collected: 07/26/22 12:00

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Matrix: Solid

Date Received: 07/29/22 14:06

Method: 8015 NM - Diesel Rang	ge Organics	: (DRO) (GC	()					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3450		250	mg/Kg			08/04/22 09:51	1
	0	(DDO) (O	C \					

- Total IFII	3430		200		mg/rtg			00/04/22 00:01	
Method: 8015B NM - Diesel I	Range Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<250	U	250		mg/Kg		08/03/22 09:25	08/03/22 21:27	5
(GRO)-C6-C10 Diesel Range Organics (Over	2820		250		mg/Kg		08/03/22 09:25	08/03/22 21:27	5
C10-C28)	2020		230		mg/rtg		00/03/22 09.23	00/03/22 21.27	3
Oll Range Organics (Over	625		250		mg/Kg		08/03/22 09:25	08/03/22 21:27	5
C28-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/03/22 09:25	08/03/22 21:27	5

Method: 300.0 - Anions, Ion Cl	hromatogra	phy - Solul	ole						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		24.9		mg/Kg			08/06/22 08:22	5

70 - 130

Client Sample ID: BH-165 (13')

Lab Sample ID: 890-2689-12 Date Collected: 07/26/22 12:00 **Matrix: Solid**

o-Terphenyl

Method: 8021B - Volatile Org	anic Compoi	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 07:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 07:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				08/05/22 11:19	08/06/22 07:54	
1,4-Difluorobenzene (Surr)	91		70 - 130				08/05/22 11:19	08/06/22 07:54	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Method: Total BTEX - Total B Analyte		tion Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/08/22 14:27	Dil Fac
	<0.00402	Qualifier U	0.00402	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX	Result <0.00402	Qualifier U	0.00402			<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra	Result <0.00402	Qualifier U	0.00402		mg/Kg			08/08/22 14:27	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result <0.00402 nge Organic Result 64.6	Qualifier U s (DRO) (O Qualifier	0.00402 GC) RL 49.9		mg/Kg Unit			08/08/22 14:27 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH	Result <0.00402 nge Organic Result 64.6 Range Organic	Qualifier U s (DRO) (O Qualifier	0.00402 GC) RL 49.9	MDL	mg/Kg Unit			08/08/22 14:27 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <0.00402 nge Organic Result 64.6 Range Organic	Qualifier U S (DRO) (O Qualifier ics (DRO) Qualifier	0.00402 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	08/08/22 14:27 Analyzed 08/04/22 09:51	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R	Result <0.00402 nge Organic Result 64.6 Range Organic Result	Qualifier U S (DRO) (O Qualifier ics (DRO) Qualifier	0.00402 GC) RL 49.9 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared 08/03/22 09:25	08/08/22 14:27 Analyzed 08/04/22 09:51 Analyzed	1

Client: Tetra Tech, Inc.

Job ID: 890-2689-1 SDG: Lea County NM

Project/Site: Kaiser SWD

Client Sample ID: BH-165 (13') Lab Sample ID: 890-2689-12 Date Collected: 07/26/22 12:00

Matrix: Solid

Date Received: 07/29/22 14:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	08/03/22 09:25	08/03/22 23:15	1
o-Terphenyl	98		70 - 130	08/03/22 09:25	08/03/22 23:15	1

Method: 300.0 - Anions, Ion Ch	romatogra	phy - Soluk	ole						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	613		24.9		mg/Kg			08/06/22 08:50	5

Client Sample ID: SW-43 (0-4') Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2689-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/07/22 12:02	08/08/22 00:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/07/22 12:02	08/08/22 00:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/07/22 12:02	08/08/22 00:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/07/22 12:02	08/08/22 00:42	1
o-Xylene	<0.00202	U F1	0.00202		mg/Kg		08/07/22 12:02	08/08/22 00:42	1
Xylenes, Total	<0.00403	U F1	0.00403		mg/Kg		08/07/22 12:02	08/08/22 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/07/22 12:02	08/08/22 00:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130				08/07/22 12:02	08/08/22 00:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/08/22 14:27	1
		(550) (6							

Method: 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			08/04/22 09:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/03/22 09:25	08/04/22 01:38	1

Method: 300.0 - Anions, Ion Ch	romatography	- Soluble						
Analyte	Result Qual	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.9	5.00		mg/Kg			08/06/22 08:59	1

70 - 130

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o-Terphenyl

Client Sample ID: SW-39 (0-13')

Date Collected: 07/29/22 12:00 Date Received: 07/29/22 14:06

Total TPH

Lab Sample ID: 890-2689-14

08/04/22 09:51

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/07/22 12:02	08/08/22 01:03	1
Toluene	< 0.00201	U	0.00201		mg/Kg		08/07/22 12:02	08/08/22 01:03	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		08/07/22 12:02	08/08/22 01:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/07/22 12:02	08/08/22 01:03	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		08/07/22 12:02	08/08/22 01:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/07/22 12:02	08/08/22 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/07/22 12:02	08/08/22 01:03	1
1,4-Difluorobenzene (Surr)	93		70 - 130				08/07/22 12:02	08/08/22 01:03	1
- Method: Total BTEX - Tota	I BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/22 14:27	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	SC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:58	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/03/22 09:25	08/04/22 01:58	1
o-Terphenyl	92		70 - 130				08/03/22 09:25	08/04/22 01:58	1

49.9

mg/Kg

<49.9 U

Method: 300.0 - Anions, Ion C	hromatography - Solul	ble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111	5.04	mg/Kg			08/06/22 20:26	1

Client Sample ID: SW-40 (0-13')

Date Collected: 07/29/22 12:00

Matrix: Solid

Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/07/22 12:02	08/08/22 01:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/07/22 12:02	08/08/22 01:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/07/22 12:02	08/08/22 01:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/07/22 12:02	08/08/22 01:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/07/22 12:02	08/08/22 01:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/07/22 12:02	08/08/22 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/07/22 12:02	08/08/22 01:23	1
1,4-Difluorobenzene (Surr)	77		70 - 130				08/07/22 12:02	08/08/22 01:23	1

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2

3

5

4.0

11

13

olins Carisbac

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2689-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-40 (0-13')

Date Collected: 07/29/22 12:00

Lab Sample ID: 890-2689-15

08/06/22 20:35

Matrix: Solid

Method: Total BTEX - Total BT									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/22 14:27	1
Method: 8015 NM - Diesel Ran	ige Organic	s (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/04/22 09:51	1
Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		08/03/22 09:25	08/04/22 02:18	1
GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		08/03/22 09:25	08/04/22 02:18	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/22 09:25	08/04/22 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				08/03/22 09:25	08/04/22 02:18	1
p-Terphenyl	90		70 - 130				08/03/22 09:25	08/04/22 02:18	1

5.03

mg/Kg

52.3

Chloride

2

3

5

7

9

11

13

14

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-2689-1	BH-118 (13')	94	96	
390-2689-2	BH-119 (10')	114	92	
890-2689-2 MS	BH-119 (10')	124	98	
890-2689-2 MSD	BH-119 (10')	112	93	
890-2689-3	BH-158 (8')	110	93	
890-2689-4	SW-50 (0-6')	117	89	
390-2689-5	SW-51 (0-6')	111	91	
890-2689-6	BH-159 (8')	131 S1+	91	
890-2689-7	BH-160 (8')	135 S1+	89	
890-2689-8	BH-161 (8')	106	77	
390-2689-9	BH-162 (8')	108	87	
390-2689-10	BH-163 (8')	122	82	
390-2689-11	BH-164 (8')	124	99	
390-2689-12	BH-165 (13')	115	91	
890-2689-13	SW-43 (0-4')	110	88	
890-2689-13 MS	SW-43 (0-4')	114	95	
890-2689-13 MSD	SW-43 (0-4')	120	94	
890-2689-14	SW-39 (0-13')	120	93	
390-2689-15	SW-40 (0-13')	108	77	
_CS 880-31573/1-A	Lab Control Sample	106	90	
LCS 880-31669/1-A	Lab Control Sample	100	99	
_CSD 880-31573/2-A	Lab Control Sample Dup	112	94	
LCSD 880-31669/2-A	Lab Control Sample Dup	101	101	
MB 880-31335/5-A	Method Blank	99	89	
MB 880-31573/5-A	Method Blank	101	91	
MB 880-31602/5-A	Method Blank	95	80	
MB 880-31669/5-A	Method Blank	130	111	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Reco	very (Acceptance Limits)
		1001	ОТРН1	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
890-2689-1	BH-118 (13')	92	94	
390-2689-2	BH-119 (10')	99	113	
390-2689-2 MS	BH-119 (10')	96	92	
390-2689-2 MSD	BH-119 (10')	88	84	
390-2689-3	BH-158 (8')	83	88	
390-2689-4	SW-50 (0-6')	90	96	
390-2689-5	SW-51 (0-6')	84	91	
90-2689-6	BH-159 (8')	87	91	
390-2689-7	BH-160 (8')	88	91	
390-2689-8	BH-161 (8')	88	92	
390-2689-9	BH-162 (8')	87	94	
390-2689-10	BH-163 (8')	97	104	

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2689-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

			Perce	nt Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2689-11	BH-164 (8')	99	105	
890-2689-12	BH-165 (13')	93	98	
890-2689-13	SW-43 (0-4')	88	94	
890-2689-14	SW-39 (0-13')	87	92	
890-2689-15	SW-40 (0-13')	84	90	
LCS 880-31397/2-A	Lab Control Sample	109	107	
LCSD 880-31397/3-A	Lab Control Sample Dup	111	110	
MB 880-31397/1-A	Method Blank	96	109	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

13

14

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31335/5-A

Matrix: Solid

Analysis Batch: 31540

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31335

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/02/22 14:31	08/05/22 11:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/02/22 14:31	08/05/22 11:25	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/02/22 14:31	08/05/22 11:25	1

Lab Sample ID: MB 880-31573/5-A

Matrix: Solid

Analysis Batch: 31540

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 31573

MB MB Analyte Result Qualifier RLMDL Unit Prepared Analyzed Dil Fac Benzene 08/05/22 11:19 08/06/22 00:00 <0.00200 U 0.00200 mg/Kg Toluene mg/Kg 08/05/22 11:19 08/06/22 00:00 <0.00200 U 0.00200 Ethylbenzene mg/Kg 08/05/22 11:19 08/06/22 00:00 <0.00200 U 0.00200 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 08/05/22 11:19 08/06/22 00:00 o-Xylene <0.00200 U 0.00200 mg/Kg 08/05/22 11:19 08/06/22 00:00 Xylenes, Total <0.00400 U 0.00400 mg/Kg 08/05/22 11:19 08/06/22 00:00

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/05/22 11:19	08/06/22 00:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/05/22 11:19	08/06/22 00:00	1

Lab Sample ID: LCS 880-31573/1-A

Matrix: Solid

Analysis Batch: 31540

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Batch: 31573

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09897		mg/Kg		99	70 - 130	
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1050		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2137		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1208		mg/Kg		121	70 - 130	

LCS LCS

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	90	70 - 130

Lab Sample ID: LCSD 880-31573/2-A

Matrix: Solid						Prep Ty	Prep Type: Total/NA		
Analysis Batch: 31540						Prep E	Batch: 31573		
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09262		mg/Kg		93	70 - 130	7	35

Client: Tetra Tech, Inc. Job ID: 890-2689-1 SDG: Lea County NM Project/Site: Kaiser SWD

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-31573/2-A

Matrix: Solid

Analysis Batch: 31540

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 31573

LCSD LCSD Spike **RPD** %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0 100 0.09534 mg/Kg 95 70 - 130 7 35 Ethylbenzene 0.100 0.1047 mg/Kg 105 70 - 130 0 35 0.200 0.2146 mg/Kg 107 70 - 130 35 m-Xylene & p-Xylene n 0.100 2 35 o-Xylene 0.1189 mg/Kg 119 70 - 130

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Client Sample ID: BH-119 (10') Lab Sample ID: 890-2689-2 MS Prep Type: Total/NA

Matrix: Solid

o-Xylene

Analysis Batch: 31540

Prep Batch: 31573 Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier D %Rec Limits Unit Benzene <0.00200 U 0.101 0.09178 91 70 - 130 mg/Kg Toluene <0.00200 U 0.101 0.1004 mg/Kg 100 70 - 130 Ethylbenzene <0.00200 U 0.101 0.1071 mg/Kg 107 70 - 130 0.201 m-Xylene & p-Xylene <0.00399 U 0.2218 mg/Kg 110 70 - 130

0.1258

mg/Kg

0.101

MS MS

<0.00200 U

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-2689-2 MSD

Matrix: Solid

Analysis Batch: 31540

Client Sample ID: BH-119 (10') Prep Type: Total/NA

70 - 130

125

Prep Batch: 31573

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	<0.00200	U	0.0998	0.08524		mg/Kg		85	70 - 130	7	35		
Toluene	<0.00200	U	0.0998	0.08780		mg/Kg		88	70 - 130	13	35		
Ethylbenzene	<0.00200	U	0.0998	0.08996		mg/Kg		90	70 - 130	17	35		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1787		mg/Kg		90	70 - 130	22	35		
o-Xylene	<0.00200	U	0.0998	0.1036		mg/Kg		104	70 - 130	19	35		

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-31602/5-A

Matrix: Solid

Analysis Batch: 31654

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 31602

мв мв MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 08/05/22 13:42 08/07/22 13:44 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 08/05/22 13:42 08/07/22 13:44 Ethylbenzene <0.00200 U 0.00200 mg/Kg 08/05/22 13:42 08/07/22 13:44 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 08/05/22 13:42 08/07/22 13:44

Client: Tetra Tech, Inc. Job ID: 890-2689-1 SDG: Lea County NM Project/Site: Kaiser SWD

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-31602/5-A

Matrix: Solid

Analysis Batch: 31654

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31602

Analyte	Result Qual	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200 U	0.00200	mg/Kg		08/05/22 13:42	08/07/22 13:44	1
Xylenes, Total	<0.00400 U	0.00400	mg/Kg		08/05/22 13:42	08/07/22 13:44	1

MR MR

MR ME

Surrogate	%Recovery Qualific	er Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95	70 - 130	08/05/22 13:42	08/07/22 13:44	1
1,4-Difluorobenzene (Surr)	80	70 - 130	08/05/22 13:42	08/07/22 13:44	1

Lab Sample ID: MB 880-31669/5-A **Client Sample ID: Method Blank**

Matrix: Solid

Prep Type: Total/NA

Prep Batch: 31669

Analysis Batch: 31654 MB MB Analyte Result Qualifier RL MDL Unit **Prepared** Analyzed Dil Fac <0.00200 U 0.00200 mg/Kg 08/07/22 12:02 08/08/22 00:21

Benzene Toluene mg/Kg 08/07/22 12:02 08/08/22 00:21 <0.00200 U 0.00200 Ethylbenzene 08/07/22 12:02 08/08/22 00:21 <0.00200 U 0.00200 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 08/07/22 12:02 08/08/22 00:21 o-Xylene <0.00200 U 0.00200 mg/Kg 08/07/22 12:02 08/08/22 00:21 Xylenes, Total <0.00400 U 0.00400 mg/Kg 08/07/22 12:02 08/08/22 00:21

MB MB

Surrogate	%Recovery 0	Qualifier L	_imits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130	7	70 - 130	08/07/22 12:02	08/08/22 00:21	1
1,4-Difluorobenzene (Surr)	111	7	70 - 130	08/07/22 12:02	08/08/22 00:21	1

Lab Sample ID: LCS 880-31669/1-A

Matrix: Solid

Analysis Batch: 31654

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 31669

LCS LCS %Rec Spike Added Result Qualifier Unit D %Rec Limits Analyte Benzene 0.100 0.1009 mg/Kg 101 70 - 130 Toluene 0.100 0.09893 mg/Kg 99 70 - 130 Ethylbenzene 0.100 0.09835 mg/Kg 98 70 - 130 m-Xylene & p-Xylene 0.200 0.1984 mg/Kg 99 70 - 130 o-Xylene 70 - 130

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-31669/2-A

Matrix: Solid

Analysis Batch: 31654						Prep Batch: 316		
	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1023	mg/Kg		102	70 - 130	1	35
Toluene	0.100	0.1004	mg/Kg		100	70 - 130	2	35
Ethylbenzene	0.100	0.1014	mg/Kg		101	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2043	mg/Kg		102	70 - 130	3	35
o-Xylene	0.100	0.1134	mg/Kg		113	70 - 130	1	35

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0.100 0.1126 113 mg/Kg LCS LCS

> Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Client Sample ID: SW-43 (0-4') Lab Sample ID: 890-2689-13 MS

Matrix: Solid

Analysis Batch: 31654

,	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.1058		mg/Kg		105	70 - 130	
Toluene	<0.00202	U	0.100	0.1129		mg/Kg		112	70 - 130	
Ethylbenzene	<0.00202	U	0.100	0.1179		mg/Kg		117	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.201	0.2446		mg/Kg		122	70 - 130	
o-Xylene	<0.00202	U F1	0.100	0.1369	F1	mg/Kg		136	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 114 70 - 130 1,4-Difluorobenzene (Surr) 95

Lab Sample ID: 890-2689-13 MSD

Matrix: Solid

Analysis Batch: 31654

Client Sample ID: SW-43 (0-4') Prep Type: Total/NA

Prep Batch: 31669

Prep Type: Total/NA Prep Batch: 31669

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit Benzene <0.00202 U 0.100 0.1039 104 70 - 130 35 mg/Kg Toluene 70 - 130 <0.00202 U 0.100 0.1120 mg/Kg 112 35 1 Ethylbenzene <0.00202 U 0.100 0.1218 mg/Kg 122 70 - 130 35 <0.00403 U 0.200 0.2532 126 70 - 130 35 m-Xylene & p-Xylene mg/Kg 3 o-Xylene <0.00202 UF1 0.100 0.1413 F1 mg/Kg 141 70 - 130 3 35

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 120 70 - 130 1,4-Difluorobenzene (Surr) 94 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-31397/1-A

Matrix: Solid

Analysis Batch: 31371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31397

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/03/22 19:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/03/22 19:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/03/22 19:19	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/03/22 09:25 08/03/22 19:19	1
o-Terphenyl	109		70 - 130	08/03/22 09:25 08/03/22 19:19	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2689-1 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-31397/2-A

Lab Sample ID: LCSD 880-31397/3-A

Matrix: Solid

Analysis Batch: 31371

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 31397

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1052		mg/Kg		105	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1023		mg/Kg		102	70 - 130	
C10-C28)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	107		70 - 130

Client Sample ID: Lab Control Sample Dup

Analysis Batch: 31371							Prep Iy	pe: 10t Batch: 3		
-	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	1144		mg/Kg		114	70 - 130	8	20	
Diesel Range Organics (Over C10-C28)	1000	1065		mg/Kg		106	70 - 130	4	20	

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 111 70 - 130 o-Terphenyl 110 70 - 130

Lab Sample ID: 890-2689-2 MS

Matrix: Solid

Analysis Batch: 31371

Client Sample ID: BH-119 (10') Prep Type: Total/NA

Prep Batch: 31397

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1062		mg/Kg		104	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	844.1		mg/Kg		84	70 - 130	
	***	140								

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 96 70 - 130 o-Terphenyl 92 70 - 130

Lab Sample ID: 890-2689-2 MSD

Matrix: Solid

Analysis Batch: 31371

Client Sample ID: BH-119 (10') Prep Type: Total/NA

Prep Batch: 31397

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	906.5		mg/Kg		88	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	780.0		mg/Kg		78	70 - 130	8	20

MSD MSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 88

Prep Batch: 31397

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2689-2 MSD Client Sample ID: BH-119 (10') Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 31371

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 84 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31360/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31623

MB MB

Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Chloride <5.00 5.00 08/06/22 05:46 U mg/Kg

Lab Sample ID: LCS 880-31360/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31623

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 250 Chloride 236.9 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-31360/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31623

LCSD LCSD Spike %Rec **RPD** Added Analyte Result Qualifier Unit D %Rec Limits **RPD** Limit Chloride 250 237.0 95 90 - 110 20 mg/Kg

Lab Sample ID: 890-2689-1 MS Client Sample ID: BH-118 (13') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31623

MS MS Sample Sample Spike %Rec **Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 263 252 507.4 97 90 - 110 mg/Kg

Lab Sample ID: 890-2689-1 MSD

Matrix: Solid

Analysis Batch: 31623

MSD MSD **RPD** Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 263 252 505.2 90 - 110 mg/Kg

Lab Sample ID: 890-2689-11 MS

Matrix: Solid

Analysis Batch: 31623

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1240 Chloride 1340 2642 105 90 - 110 mg/Kg

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Client Sample ID: BH-118 (13')

Client Sample ID: BH-164 (8')

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2689-11 MSD Client Sample ID: BH-164 (8') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31623

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1340		1240	2664		mg/Kg		107	90 - 110	1	20

Job ID: 890-2689-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA

Prep Batch: 31335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31335/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 31540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Total/NA	Solid	8021B	31573
890-2689-2	BH-119 (10')	Total/NA	Solid	8021B	31573
890-2689-3	BH-158 (8')	Total/NA	Solid	8021B	31573
890-2689-4	SW-50 (0-6')	Total/NA	Solid	8021B	31573
890-2689-5	SW-51 (0-6')	Total/NA	Solid	8021B	31573
890-2689-6	BH-159 (8')	Total/NA	Solid	8021B	31573
890-2689-7	BH-160 (8')	Total/NA	Solid	8021B	31573
890-2689-8	BH-161 (8')	Total/NA	Solid	8021B	31573
890-2689-9	BH-162 (8')	Total/NA	Solid	8021B	31573
890-2689-10	BH-163 (8')	Total/NA	Solid	8021B	31573
890-2689-11	BH-164 (8')	Total/NA	Solid	8021B	31573
890-2689-12	BH-165 (13')	Total/NA	Solid	8021B	31573
MB 880-31335/5-A	Method Blank	Total/NA	Solid	8021B	31335
MB 880-31573/5-A	Method Blank	Total/NA	Solid	8021B	31573
LCS 880-31573/1-A	Lab Control Sample	Total/NA	Solid	8021B	31573
LCSD 880-31573/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31573
890-2689-2 MS	BH-119 (10')	Total/NA	Solid	8021B	31573
890-2689-2 MSD	BH-119 (10')	Total/NA	Solid	8021B	31573

Prep Batch: 31573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Total/NA	Solid	5035	
890-2689-2	BH-119 (10')	Total/NA	Solid	5035	
890-2689-3	BH-158 (8')	Total/NA	Solid	5035	
890-2689-4	SW-50 (0-6')	Total/NA	Solid	5035	
890-2689-5	SW-51 (0-6')	Total/NA	Solid	5035	
890-2689-6	BH-159 (8')	Total/NA	Solid	5035	
890-2689-7	BH-160 (8')	Total/NA	Solid	5035	
890-2689-8	BH-161 (8')	Total/NA	Solid	5035	
890-2689-9	BH-162 (8')	Total/NA	Solid	5035	
890-2689-10	BH-163 (8')	Total/NA	Solid	5035	
890-2689-11	BH-164 (8')	Total/NA	Solid	5035	
890-2689-12	BH-165 (13')	Total/NA	Solid	5035	
MB 880-31573/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31573/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31573/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2689-2 MS	BH-119 (10')	Total/NA	Solid	5035	
890-2689-2 MSD	BH-119 (10')	Total/NA	Solid	5035	

Prep Batch: 31602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31602/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 31654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-13	SW-43 (0-4')	Total/NA	Solid	8021B	31669
890-2689-14	SW-39 (0-13')	Total/NA	Solid	8021B	31669

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2689-1

SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 31654 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-15	SW-40 (0-13')	Total/NA	Solid	8021B	31669
MB 880-31602/5-A	Method Blank	Total/NA	Solid	8021B	31602
MB 880-31669/5-A	Method Blank	Total/NA	Solid	8021B	31669
LCS 880-31669/1-A	Lab Control Sample	Total/NA	Solid	8021B	31669
LCSD 880-31669/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31669
890-2689-13 MS	SW-43 (0-4')	Total/NA	Solid	8021B	31669
890-2689-13 MSD	SW-43 (0-4')	Total/NA	Solid	8021B	31669

Prep Batch: 31669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-13	SW-43 (0-4')	Total/NA	Solid	5035	
890-2689-14	SW-39 (0-13')	Total/NA	Solid	5035	
890-2689-15	SW-40 (0-13')	Total/NA	Solid	5035	
MB 880-31669/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31669/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31669/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2689-13 MS	SW-43 (0-4')	Total/NA	Solid	5035	
890-2689-13 MSD	SW-43 (0-4')	Total/NA	Solid	5035	

Analysis Batch: 31779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Total/NA	Solid	Total BTEX	
890-2689-2	BH-119 (10')	Total/NA	Solid	Total BTEX	
890-2689-3	BH-158 (8')	Total/NA	Solid	Total BTEX	
890-2689-4	SW-50 (0-6')	Total/NA	Solid	Total BTEX	
890-2689-5	SW-51 (0-6')	Total/NA	Solid	Total BTEX	
890-2689-6	BH-159 (8')	Total/NA	Solid	Total BTEX	
890-2689-7	BH-160 (8')	Total/NA	Solid	Total BTEX	
890-2689-8	BH-161 (8')	Total/NA	Solid	Total BTEX	
890-2689-9	BH-162 (8')	Total/NA	Solid	Total BTEX	
890-2689-10	BH-163 (8')	Total/NA	Solid	Total BTEX	
890-2689-11	BH-164 (8')	Total/NA	Solid	Total BTEX	
890-2689-12	BH-165 (13')	Total/NA	Solid	Total BTEX	
890-2689-13	SW-43 (0-4')	Total/NA	Solid	Total BTEX	
890-2689-14	SW-39 (0-13')	Total/NA	Solid	Total BTEX	
890-2689-15	SW-40 (0-13')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 31371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Total/NA	Solid	8015B NM	31397
890-2689-2	BH-119 (10')	Total/NA	Solid	8015B NM	31397
890-2689-3	BH-158 (8')	Total/NA	Solid	8015B NM	31397
890-2689-4	SW-50 (0-6')	Total/NA	Solid	8015B NM	31397
890-2689-5	SW-51 (0-6')	Total/NA	Solid	8015B NM	31397
890-2689-6	BH-159 (8')	Total/NA	Solid	8015B NM	31397
890-2689-7	BH-160 (8')	Total/NA	Solid	8015B NM	31397
890-2689-8	BH-161 (8')	Total/NA	Solid	8015B NM	31397
890-2689-9	BH-162 (8')	Total/NA	Solid	8015B NM	31397
890-2689-10	BH-163 (8')	Total/NA	Solid	8015B NM	31397

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Job ID: 890-2689-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 31371 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-11	BH-164 (8')	Total/NA	Solid	8015B NM	31397
890-2689-12	BH-165 (13')	Total/NA	Solid	8015B NM	31397
890-2689-13	SW-43 (0-4')	Total/NA	Solid	8015B NM	31397
890-2689-14	SW-39 (0-13')	Total/NA	Solid	8015B NM	31397
890-2689-15	SW-40 (0-13')	Total/NA	Solid	8015B NM	31397
MB 880-31397/1-A	Method Blank	Total/NA	Solid	8015B NM	31397
LCS 880-31397/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31397
LCSD 880-31397/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31397
890-2689-2 MS	BH-119 (10')	Total/NA	Solid	8015B NM	31397
890-2689-2 MSD	BH-119 (10')	Total/NA	Solid	8015B NM	31397

Prep Batch: 31397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Total/NA	Solid	8015NM Prep	
890-2689-2	BH-119 (10')	Total/NA	Solid	8015NM Prep	
890-2689-3	BH-158 (8')	Total/NA	Solid	8015NM Prep	
890-2689-4	SW-50 (0-6')	Total/NA	Solid	8015NM Prep	
890-2689-5	SW-51 (0-6')	Total/NA	Solid	8015NM Prep	
890-2689-6	BH-159 (8')	Total/NA	Solid	8015NM Prep	
890-2689-7	BH-160 (8')	Total/NA	Solid	8015NM Prep	
890-2689-8	BH-161 (8')	Total/NA	Solid	8015NM Prep	
890-2689-9	BH-162 (8')	Total/NA	Solid	8015NM Prep	
890-2689-10	BH-163 (8')	Total/NA	Solid	8015NM Prep	
890-2689-11	BH-164 (8')	Total/NA	Solid	8015NM Prep	
890-2689-12	BH-165 (13')	Total/NA	Solid	8015NM Prep	
890-2689-13	SW-43 (0-4')	Total/NA	Solid	8015NM Prep	
890-2689-14	SW-39 (0-13')	Total/NA	Solid	8015NM Prep	
890-2689-15	SW-40 (0-13')	Total/NA	Solid	8015NM Prep	
MB 880-31397/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31397/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31397/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2689-2 MS	BH-119 (10')	Total/NA	Solid	8015NM Prep	
890-2689-2 MSD	BH-119 (10')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Total/NA	Solid	8015 NM	
890-2689-2	BH-119 (10')	Total/NA	Solid	8015 NM	
890-2689-3	BH-158 (8')	Total/NA	Solid	8015 NM	
890-2689-4	SW-50 (0-6')	Total/NA	Solid	8015 NM	
890-2689-5	SW-51 (0-6')	Total/NA	Solid	8015 NM	
890-2689-6	BH-159 (8')	Total/NA	Solid	8015 NM	
890-2689-7	BH-160 (8')	Total/NA	Solid	8015 NM	
890-2689-8	BH-161 (8')	Total/NA	Solid	8015 NM	
890-2689-9	BH-162 (8')	Total/NA	Solid	8015 NM	
890-2689-10	BH-163 (8')	Total/NA	Solid	8015 NM	
890-2689-11	BH-164 (8')	Total/NA	Solid	8015 NM	
890-2689-12	BH-165 (13')	Total/NA	Solid	8015 NM	
890-2689-13	SW-43 (0-4')	Total/NA	Solid	8015 NM	
890-2689-14	SW-39 (0-13')	Total/NA	Solid	8015 NM	
890-2689-15	SW-40 (0-13')	Total/NA	Solid	8015 NM	

Job ID: 890-2689-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

HPLC/IC

Leach Batch: 31360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Soluble	Solid	DI Leach	_
890-2689-2	BH-119 (10')	Soluble	Solid	DI Leach	
890-2689-3	BH-158 (8')	Soluble	Solid	DI Leach	
890-2689-4	SW-50 (0-6')	Soluble	Solid	DI Leach	
890-2689-5	SW-51 (0-6')	Soluble	Solid	DI Leach	
890-2689-6	BH-159 (8')	Soluble	Solid	DI Leach	
890-2689-7	BH-160 (8')	Soluble	Solid	DI Leach	
890-2689-8	BH-161 (8')	Soluble	Solid	DI Leach	
890-2689-9	BH-162 (8')	Soluble	Solid	DI Leach	
890-2689-10	BH-163 (8')	Soluble	Solid	DI Leach	
890-2689-11	BH-164 (8')	Soluble	Solid	DI Leach	
890-2689-12	BH-165 (13')	Soluble	Solid	DI Leach	
890-2689-13	SW-43 (0-4')	Soluble	Solid	DI Leach	
890-2689-14	SW-39 (0-13')	Soluble	Solid	DI Leach	
890-2689-15	SW-40 (0-13')	Soluble	Solid	DI Leach	
MB 880-31360/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31360/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31360/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2689-1 MS	BH-118 (13')	Soluble	Solid	DI Leach	
890-2689-1 MSD	BH-118 (13')	Soluble	Solid	DI Leach	
890-2689-11 MS	BH-164 (8')	Soluble	Solid	DI Leach	
890-2689-11 MSD	BH-164 (8')	Soluble	Solid	DI Leach	

Analysis Batch: 31623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Soluble	Solid	300.0	31360
890-2689-2	BH-119 (10')	Soluble	Solid	300.0	31360
890-2689-3	BH-158 (8')	Soluble	Solid	300.0	31360
890-2689-4	SW-50 (0-6')	Soluble	Solid	300.0	31360
890-2689-5	SW-51 (0-6')	Soluble	Solid	300.0	31360
890-2689-6	BH-159 (8')	Soluble	Solid	300.0	31360
890-2689-7	BH-160 (8')	Soluble	Solid	300.0	31360
890-2689-8	BH-161 (8')	Soluble	Solid	300.0	31360
890-2689-9	BH-162 (8')	Soluble	Solid	300.0	31360
890-2689-10	BH-163 (8')	Soluble	Solid	300.0	31360
890-2689-11	BH-164 (8')	Soluble	Solid	300.0	31360
890-2689-12	BH-165 (13')	Soluble	Solid	300.0	31360
890-2689-13	SW-43 (0-4')	Soluble	Solid	300.0	31360
890-2689-14	SW-39 (0-13')	Soluble	Solid	300.0	31360
890-2689-15	SW-40 (0-13')	Soluble	Solid	300.0	31360
MB 880-31360/1-A	Method Blank	Soluble	Solid	300.0	31360
LCS 880-31360/2-A	Lab Control Sample	Soluble	Solid	300.0	31360
LCSD 880-31360/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31360
890-2689-1 MS	BH-118 (13')	Soluble	Solid	300.0	31360
890-2689-1 MSD	BH-118 (13')	Soluble	Solid	300.0	31360
890-2689-11 MS	BH-164 (8')	Soluble	Solid	300.0	31360
890-2689-11 MSD	BH-164 (8')	Soluble	Solid	300.0	31360

Job ID: 890-2689-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-118 (13')

Lab Sample ID: 890-2689-1

Matrix: Solid

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	31573	08/05/22 11:19	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 01:44	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/03/22 22:32	AJ	EETSC M
Soluble	Leach	DI Leach			4.97 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 06:13	AJ	EETSC M

Client Sample ID: BH-119 (10') Lab Sample ID: 890-2689-2

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06 Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 31573 08/05/22 11:19 MR EETSC MID Prep 5.01 g 5 mL Total/NA 8021B 5 mL 31540 08/06/22 00:22 MR EETSC M Analysis 5 mL 1 Total/NA Total BTEX Analysis 31779 08/08/22 14:27 SM EETSC M 1 Total/NA 8015 NM EETSC M Analysis 1 31489 08/04/22 09:51 AJ Total/NA Prep 8015NM Prep 10.03 g 10 mL 31397 08/03/22 09:25 DM EETSC M Total/NA 8015B NM Analysis 1 31371 08/03/22 20:23 AJ EETSC M Soluble 31360 08/02/22 19:05 SMC Leach DI Leach 4.99 g 50 mL EETSC M 300.0 08/06/22 06:41 AJ Soluble Analysis 5 31623 EETSC M

Client Sample ID: BH-158 (8')

Date Collected: 07/26/22 12:00

Lab Sample ID: 890-2689-3

Matrix: Solid

Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31573	08/05/22 11:19	MR	EETSC MI
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 00:42	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/03/22 23:57	AJ	EETSC M
Soluble	Leach	DI Leach			5 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 06:50	AJ	EETSC M

Client Sample ID: SW-50 (0-6')

Date Collected: 07/26/22 12:00

Lab Sample ID: 890-2689-4

Matrix: Solid

Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	31573	08/05/22 11:19	MR	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 01:03	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M

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Client Sample ID: SW-50 (0-6')

Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-4 Date Collected: 07/26/22 12:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC MIC
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/04/22 00:58	AJ	EETSC M
Soluble	Leach	DI Leach			5.03 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 07:00	AJ	EETSC M

Client Sample ID: SW-51 (0-6')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-5

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31573	08/05/22 11:19	MR	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 01:23	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	31397 31371	08/03/22 09:25 08/04/22 01:18		EETSC M
Soluble Soluble	Leach Analysis	DI Leach 300.0		1	5.03 g	50 mL	31360 31623	08/02/22 19:05 08/06/22 07:09		EETSC M

Client Sample ID: BH-159 (8')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-6

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	31573	08/05/22 11:19	MR	EETSC MI
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 02:46	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/03/22 22:53	AJ	EETSC M
Soluble	Leach	DI Leach			4.95 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		5			31623	08/06/22 07:36	AJ	EETSC M

Client Sample ID: BH-160 (8')

Date Collected: 07/26/22 12:00

Date Received: 07/29/22 14:06

Lab	Sample	ID:	890-2689-7
			Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31573	08/05/22 11:19	MR	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 03:06	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	31397 31371	08/03/22 09:25 08/03/22 21:49	DM AJ	EETSC M EETSC M

Client Sample ID: BH-160 (8')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	31360	08/02/22 19:05	SMC	EETSC MIC
Soluble	Analysis	300.0		5			31623	08/06/22 07:46	AJ	EETSC M

Lab Sample ID: 890-2689-8 Client Sample ID: BH-161 (8') Date Collected: 07/26/22 12:00 Matrix: Solid

Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31573	08/05/22 11:19	MR	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 03:27	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/03/22 22:11	AJ	EETSC M
Soluble	Leach	DI Leach			5 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		5			31623	08/06/22 07:55	AJ	EETSC M

Lab Sample ID: 890-2689-9 Client Sample ID: BH-162 (8') Date Collected: 07/26/22 12:00 **Matrix: Solid**

Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31573	08/05/22 11:19	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 02:05	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/04/22 00:18	AJ	EETSC M
Soluble	Leach	DI Leach			5.02 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		5			31623	08/06/22 08:04	AJ	EETSC M

Client Sample ID: BH-163 (8') Lab Sample ID: 890-2689-10 Date Collected: 07/26/22 12:00 **Matrix: Solid**

Date Received: 07/29/22 14:06

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31573	08/05/22 11:19	MR	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 02:25	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/03/22 23:37	AJ	EETSC M
Soluble	Leach	DI Leach			4.98 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 08:13	AJ	EETSC M

Job ID: 890-2689-1 SDG: Lea County NM

Client Sample ID: BH-164 (8')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Lab Sample ID: 890-2689-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	31573	08/05/22 11:19	MR	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 07:34	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		5			31371	08/03/22 21:27	AJ	EETSC M
Soluble	Leach	DI Leach			5.03 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		5			31623	08/06/22 08:22	AJ	EETSC M

Client Sample ID: BH-165 (13')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-12

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 31573 08/05/22 11:19 MR EETSC MID Prep 4.98 g 5 mL Total/NA 8021B 5 mL 31540 08/06/22 07:54 MR EETSC M Analysis 5 mL 1 Total/NA Total BTEX Analysis 31779 08/08/22 14:27 SM EETSC M 1 Total/NA 8015 NM EETSC M Analysis 1 31489 08/04/22 09:51 AJ Total/NA Prep 8015NM Prep 10.02 g 10 mL 31397 08/03/22 09:25 DM EETSC M Total/NA 8015B NM Analysis 1 31371 08/03/22 23:15 AJ EETSC M Soluble 50 mL 31360 08/02/22 19:05 SMC Leach DI Leach 5.02 g EETSC M 300.0 5 08/06/22 08:50 AJ Soluble Analysis 31623 EETSC M

Client Sample ID: SW-43 (0-4')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-13

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	_		4.96 g	5 mL	31669	08/07/22 12:02	EL	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31654	08/08/22 00:42	EL	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/04/22 01:38	AJ	EETSC M
Soluble	Leach	DI Leach			5 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 08:59	AJ	EETSC M

Client Sample ID: SW-39 (0-13')

Date Collected: 07/29/22 12:00

Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-14

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31669	08/07/22 12:02	EL	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31654	08/08/22 01:03	EL	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-39 (0-13')

Date Collected: 07/29/22 12:00 Date Received: 07/29/22 14:06 Lab Sample ID: 890-2689-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC MIC
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/04/22 01:58	AJ	EETSC M
Soluble	Leach	DI Leach			4.96 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 20:26	AJ	EETSC M

Client Sample ID: SW-40 (0-13') Lab Sample ID: 890-2689-15

Date Collected: 07/29/22 12:00 **Matrix: Solid** Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31669	08/07/22 12:02	EL	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31654	08/08/22 01:23	EL	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/04/22 02:18	AJ	EETSC M
Soluble	Leach	DI Leach			4.97 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 20:35	AJ	EETSC M

Laboratory References:

EETSC MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2689-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analyte the agency does not		ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
and agency does not	oner certification.			
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2689-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EETSC MID
Total BTEX	Total BTEX Calculation	TAL SOP	EETSC MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
300.0	Anions, Ion Chromatography	MCAWW	EETSC MID
5035	Closed System Purge and Trap	SW846	EETSC MID
8015NM Prep	Microextraction	SW846	EETSC MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EETSC MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

EETSC MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2689-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2689-1	BH-118 (13')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-2	BH-119 (10')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-3	BH-158 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-4	SW-50 (0-6')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-5	SW-51 (0-6')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-6	BH-159 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-7	BH-160 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-8	BH-161 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-9	BH-162 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-10	BH-163 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-11	BH-164 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-12	BH-165 (13')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-13	SW-43 (0-4')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-14	SW-39 (0-13')	Solid	07/29/22 12:00	07/29/22 14:06
890-2689-15	SW-40 (0-13')	Solid	07/29/22 12:00	07/29/22 14:06

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	r: Date:			Date: 7/26/	BH-163 (8')	ВН-162 (8')	BH-161 (8')	ВН-160 (8')	Вн-159 (8')	SW-51 (0-6')	SW-50 (0-6')	ВН-158 (8')	BH-119 (10')	Вн-118 (13')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions -	Lea County, NM		Kaiser SWD	Permian Water Solutions	Tetra Tech,	Analysis Request of Chain of Custody Record
	Time:		Time:	177 1405												ATION				ns - Dusty McInturff				าร	ech, Inc.	đ
ORIGINAL COPY	Received by:			Received by:	7/26/2022	7/26/2022	7/26/2022	7/26/2022	7/26/2022	7/26/2022	7/26/2022	7/26/2022	7/26/2022	7/26/2022	DATE	YEAR: 2020	SAMPLING			Sampler Signature:		Project #		Site Manager		
	Date: Tii		(∫ Date: Ti	Date: The	×	×	×	×	×	×	×	×	×		WATEI SOIL HCL HNO ₃ ICE	R	MATRIX PRESERVATIVE		Peyton Oliver		212C-MD-02230	Clair. Gonzales@tetratecn.com	and and attack and	Clair Gonzales	Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	890-2689 Chain
1 / L	Time:			7 1400 L	*	×	×	×	×	×	×	×	×	×	# CONT	ED (RS Y/N))B					A		Chain of Custody
(Circle) HAND DELIVERED	15.2	4.51	Sample Temperature	AB USE ONLY	×		×	×	×	×	×	×	×	×	PAH 82 Total Me	15M (270C etals / letals	GRO Ag As Ag As	o C35) - DRO - Ba Cd C	r Pb S	e Hg)			ANALYSIS REQUEST		
FEDEX UPS Tracking	Special Report Limits or TRRP Report	Rush Charges Authorized	RUSH: Same Day	X STANDARD											PCB's 8	Vol. 8 Semi. 8082/	3260B Vol. 1 608		25					Specify		T.
9#	its or TRRP Report	orized	24 hr 48 hr 72 hr		×	×	×	×	×	×	×	×	×	×	Chlorid	e S	Sulfate er Ch	emistry		ittache	ed list)		_ ;	Method No 1		Page 1 c
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	Relinquished by:		Relinquished by:	100	Relipquished by:				S	S	S	8	В	(LABUSE)	LAB #		Comments:	Receiving Laboratory:	Invoic⊕ to:	Project Location: (county, state)	Project Name:	Client Name:	7
	Date: Time:		Date: Time:	2011 CE/12/2 - 1 de	Date: Time:				SW-40 (0-13')	SW-39 (0-13')	SW-43 (0-4')	BH-165 (8')	BH-164 (8')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
	Received by:	17 1.3		The same	Received by:				7/29/2022	7/29/2022	7/26/2022	7/26/2022	7/26/2022	DATE TIME	YEAR: 2020	SAMPLING		Campier of gnature:		Project #		Site Manager	
	Date:		/ Date:	The State of	Date:				×	×	×	×	×	WATER SOIL HCL HNO ₃	₹	MATRIX		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 662-4559 Fax (432) 682-3946
	Time:		Time	7/29/22 1	Time:				×	×	×	×	×	ICE None	AINE	PRESERVATIVE S		ver		02230	h.com	S	4, SAR 100 9705 559 52-3946
				YQ.										FILTER	ED ((/N)							
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HAN			Temp	000000000000000000000000000000000000000					×	×	×	×	×	TPH 80	-	GRO -	DRO -	ORO -	MRO)			ANALYSIS	
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2689-1
SDG Number: Lea County NM

Login Number: 2689 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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.	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	N/A	

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<6mm (1/4").

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2689-1

SDG Number: Lea County NM

List Source: Eurofins Midland
List Number: 2
List Creation: 08/02/22 10:44 AM

Creator: Rodriguez, Leticia

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	

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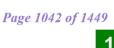
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Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2784-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

eurofins

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 9/1/2022 4:34:02 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Review your project results through EOL

Received by OCD: 8/29/2023 3:37:34 PM

Have a Question?

.....LINKS



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/1/2023 3:11:42 PM This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2784-1 SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC 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.

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

F1

Qualifier Description MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

Glossary Abbreviation

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

These commonly used abbreviations may or may not be present in this report.

DLC Decision Level Concentration (Radiochemistry) Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

Toxicity Equivalent Factor (Dioxin) TFF TEQ Toxicity Equivalent Quotient (Dioxin)

Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2784-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2784-1

Receipt

The samples were received on 8/19/2022 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 7.0°C

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: BH-120 (8') (890-2784-1), BH-124 (8') (890-2784-2), BH-132 (8') (890-2784-3), BH-159 (8') (890-2784-4), BH-162 (8') (890-2784-5), BH-164 (8') (890-2784-6), BH-166 (8') (890-2784-7), BH-167 (8') (890-2784-8), BH-168 (5') (890-2784-9), BH-169 (5') (890-2784-10), BH-170 (5') (890-2784-11), BH-171 (5') (890-2784-12), BH-172 (6') (890-2784-13), BH-173 (6') (890-2784-14), BH-174 (6') (890-2784-15), BH-175 (4.5') (890-2784-16), BH-176 (4.5') (890-2784-17), BH-177 (4.5') (890-2784-18), BH-178 (4.5') (890-2784-19), BH-179 (4.5') (890-2784-20), BH-180 (4.5') (890-2784-21), BH-181 (4.5') (890-2784-22), BH-182 (4.5') (890-2784-23), BH-183 (4.5') (890-2784-24), BH-184 (4.5') (890-2784-25), BH-185 (4.5') (890-2784-26), BH-186 (4.5') (890-2784-27), BH-187 (4.5') (890-2784-28), BH-188 (4.5') (890-2784-29), BH-189 (4.5') (890-2784-30), SW-38 (4.5-13') (890-2784-31), SW-42 (4.5-8') (890-2784-32), SW-43 (6-8') (890-2784-33), SW-44 (4.5-8') (890-2784-34), SW-45 (0-8') (890-2784-35), SW-46 (0-5') (890-2784-36), SW-47 (0-5') (890-2784-37), SW-48 (6-8') (890-2784-38), SW-49 (4.5-6') (890-2784-39), SW-53 (0-8') (890-2784-40), SW-54 (0-4.5') (890-2784-41), SW-55 (4.5-8') (890-2784-42), SW-56 (0-4.5') (890-2784-43), SW-57 (6-8') (890-2784-44), SW-58 (6-8') (890-2784-45), SW-69 (6-8') (890-2784-47), SW-61 (8-13') (890-2784-48), SW-62 (8-13') (890-2784-45), SW-63 (8-13') (890-2784-51), SW-65 (8-10') (890-2784-52), SW-66 (8-10') (890-2784-53), SW-67 (8-10') (890-2784-54), SW-68 (0-6') (890-2784-55), SW-69 (0-6') (890-2784-56), SW-70 (0-4.5') (890-2784-57), and SW-71 (0-4.5') (890-2784-58). There was no cooling media present in the cooler. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with/cancel analysis

890-2784 Sample temp 7.2/7.0 there was no temp blank and samples were taken on the 18th- client said they just brought samples from fridge with no cooler and no temp blank- wants to processed with testing

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-2784-A-1-E MS) and (890-2784-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-124 (8') (890-2784-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-58 (6-8') (890-2784-45). 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-120 (8') (890-2784-1), BH-124 (8') (890-2784-2), BH-132 (8') (890-2784-3), BH-159 (8') (890-2784-4), BH-162 (8') (890-2784-5), BH-164 (8') (890-2784-6), BH-166 (8') (890-2784-7), BH-167 (8') (890-2784-8), BH-168 (5') (890-2784-9), BH-169 (5') (890-2784-10), (890-2784-A-1-C MS) and (890-2784-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-170 (5') (890-2784-11), BH-173 (6') (890-2784-14), BH-174 (6') (890-2784-15), BH-175 (4.5') (890-2784-16), BH-176 (4.5') (890-2784-17), BH-177 (4.5') (890-2784-18), BH-178 (4.5') (890-2784-19) and BH-179 (4.5') (890-2784-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-32669 and analytical batch 880-32586 was outside the upper control limits.

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2784-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32669 and analytical batch 880-32586 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-32713 and analytical batch 880-32730 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-32714/2-A) and (LCSD 880-32714/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-32774/2-A) and (LCSD 880-32774/3-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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-32583 and analytical batch 880-33168 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-32584 and analytical batch 880-33169 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Lab Sample ID: 890-2784-1

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-120 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 00:00	
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 00:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 00:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/30/22 12:01	09/01/22 00:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 00:00	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/30/22 12:01	09/01/22 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/30/22 12:01	09/01/22 00:00	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/30/22 12:01	09/01/22 00:00	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range			D.	MDI	1114	_	B	A a b a . d	D!! E-
Analyte	Result	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U RO) (GC)	49.9		mg/Kg			08/23/22 11:36	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg	<u>D</u>	Prepared	08/23/22 11:36 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (D	Qualifier U RO) (GC)	49.9		mg/Kg			08/23/22 11:36	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier U F1	49.9		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/22/22 22:36	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/22/22 22:36 08/22/22 22:36	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/22/22 22:36 08/22/22 22:36	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared	08/23/22 11:36 Analyzed 08/22/22 22:36 08/22/22 22:36 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1 U Gualifier S1-	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/22/22 22:36 08/22/22 22:36 Analyzed 08/22/22 22:36	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U F1 U F1 U Gualifier S1-	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/22/22 22:36 08/22/22 22:36 Analyzed 08/22/22 22:36	Dil Fac

Client Sample ID: BH-124 (8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 00:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 00:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 00:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 00:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 00:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130				08/30/22 12:01	09/01/22 00:20	

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Lab Sample ID: 890-2784-2

Matrix: Solid

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Lab Sample ID: 890-2784-2

Client: Tetra Tech, Inc.

Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-124 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Method: 8021B - Volatile Organ	nic Compounds	(GC)	(Continued)	
mothed collis	no compoundo	, – – ,	(-	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85	70 - 130	08/30/22 12:01	09/01/22 00:20	1

Method: Tot	al BTEX - Tota	al BTEX Ca	alculation
mounou. Tot	u. D. L		aiouiutioii

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		mg/Kg			09/01/22 12:44	1

Mothod: 8015 NM -	Diesal Pance	Organics (DRO) ((201

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/K			08/23/22 11:36	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/22/22 23:41	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/22/22 23:41	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/22/22 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				08/22/22 13:43	08/22/22 23:41	1

1-Chlorooctane	58 S1-	70 - 130
o-Terphenyl	71	70 - 130

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble								
Analyte	Result	Qualifier	RL	MDL	Unit	D	_	Prepared	Analyzed	Dil Fac

Chloride	298	5.02	mg/Kg	08/29/22 04:20 1
Client Sample ID: BH-132 (8')				Lab Sample ID: 890-2784-3

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Method: 8021B - Volatile Organic Compounds (GC)

mounda. our ib volutile orga	illo compoundo ((33)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 00:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 00:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 00:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:01	09/01/22 00:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 00:41	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:01	09/01/22 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				08/30/22 12:01	09/01/22 00:41	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/30/22 12:01	09/01/22 00:41	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg		_	09/01/22 12:44	1

	Method: 8015 NM - Diesel	Range Organics (DRO	D) (GC)	١
ı	Michiga. 00 to Min - Diese	i italige Organics (Ditt		,

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg	9		08/23/22 11:36	1

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Matrix: Solid

Lab Sample ID: 890-2784-3

Lab Sample ID: 890-2784-4

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-132 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 00:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 00:03	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				08/22/22 13:43	08/23/22 00:03	1
o-Terphenyl	80		70 - 130				08/22/22 13:43	08/23/22 00:03	1
 Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	325		5.00		mg/Kg			08/29/22 04:28	1

Client Sample ID: BH-159 (8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 01:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 01:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 01:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:01	09/01/22 01:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 01:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:01	09/01/22 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/30/22 12:01	09/01/22 01:01	1
1,4-Difluorobenzene (Surr)	80		70 - 130				08/30/22 12:01	09/01/22 01:01	1
Method: 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			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		08/22/22 13:43	08/23/22 00:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 00:24	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				08/22/22 13:43	08/23/22 00:24	1
o-Terphenyl	82		70 ₋ 130				08/22/22 13:43	08/23/22 00:24	1

Lab Sample ID: 890-2784-4

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-159 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

١	Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1010		25.0		mg/Kg			08/29/22 04:35	5

Client Sample ID: BH-162 (8')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-5

Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:21	
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:21	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:21	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/30/22 12:01	09/01/22 01:21	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:21	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/30/22 12:01	09/01/22 01:21	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	121		70 - 130				08/30/22 12:01	09/01/22 01:21	
1,4-Difluorobenzene (Surr)	89		70 - 130				08/30/22 12:01	09/01/22 01:21	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/01/22 12:44	•
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 11:36	•
Method: 8015B NM - Diesel Rang	•								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 00:45	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 00:45	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 00:45	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	68	S1-	70 - 130				08/22/22 13:43	08/23/22 00:45	
o-Terphenyl	82		70 - 130				08/22/22 13:43	08/23/22 00:45	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

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Lab Sample ID: 890-2784-6

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-164 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:42	
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:42	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:42	•
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 01:42	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:42	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 01:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				08/30/22 12:01	09/01/22 01:42	
1,4-Difluorobenzene (Surr)	100		70 - 130				08/30/22 12:01	09/01/22 01:42	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:44	
Analyte Total TPH	Result	Qualifier	RL 49.9	MDL	Unit	D	Prepared	Analyzed	Dil Fa
-	02.1				ma/na			08/23/22 11:36	
-			10.0		mg/Kg			08/23/22 11:36	
Method: 8015B NM - Diesel Ran			10.0		mg/Kg			08/23/22 11:36	,
Method: 8015B NM - Diesel Ran Analyte	Result	Qualifier	RL	MDL	Unit Unit	<u>D</u>	Prepared	08/23/22 11:36 Analyzed	
		Qualifier		MDL		<u>D</u>	Prepared 08/22/22 13:43		Dil Fa
Analyte Gasoline Range Organics	Result	Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	08/22/22 13:43	Analyzed 08/23/22 01:06	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u> </u>	08/22/22 13:43 08/22/22 13:43	Analyzed 08/23/22 01:06 08/23/22 01:06	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43	Analyzed 08/23/22 01:06 08/23/22 01:06 08/23/22 01:06	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U Qualifier	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u> </u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared	Analyzed 08/23/22 01:06 08/23/22 01:06 08/23/22 01:06 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier S1-	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	Analyzed 08/23/22 01:06 08/23/22 01:06 08/23/22 01:06 Analyzed 08/23/22 01:06	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier S1-	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	Analyzed 08/23/22 01:06 08/23/22 01:06 08/23/22 01:06 Analyzed 08/23/22 01:06	Dil Fac

Client Sample ID: BH-166 (8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 02:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 02:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 02:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:01	09/01/22 02:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 02:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:01	09/01/22 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				08/30/22 12:01	09/01/22 02:02	

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Matrix: Solid

Lab Sample ID: 890-2784-7

Lab Sample ID: 890-2784-7

Lab Sample ID: 890-2784-8

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-166 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
motification to a gaine compa	Julius (33)	(Continuou,

Surrogate	%Recovery Qual	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90	70 - 130	08/30/22 12:01	09/01/22 02:02	1

ı				
ı	Method:	Total RTFX	: - Total BTEX	Calculation
ı	mictilou.	TOTAL DIE	- IOLAI DIEA	Oulculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg		_	09/01/22 12:44	1

ш				
ш	Method: 8015 NI	A - Diocol Pane	no Organice	(DPO) (CC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/23/22 11:36	1

Method: 8015B	NM - Diesel	Range Ord	anics	(DRO)	(GC)
motilioa. oo lob	THE DIGGGE	Trainge Oit	garnos	(5.10)	100)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:27	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130	08/22/22 13:4	3 08/23/22 01:27	1
o-Terphenyl	71		70 - 130	08/22/22 13:4	3 08/23/22 01:27	1

Method: 300.0 - Anions,	Ion Chromatography - Soluble	

Analyte	Result Q	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233	4.96	mg/Kg		_	08/29/22 05:30	1

Client Sample ID: BH-167 (8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8

Method: 8021B -	Volatile Organic	c Compounds (GC)

ilic Collipoulius (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 02:23	1
<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 02:23	1
<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 02:23	1
<0.00400	U	0.00400		mg/Kg		08/30/22 12:01	09/01/22 02:23	1
<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 02:23	1
<0.00400	U	0.00400		mg/Kg		08/30/22 12:01	09/01/22 02:23	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
106		70 - 130				08/30/22 12:01	09/01/22 02:23	1
90		70 - 130				08/30/22 12:01	09/01/22 02:23	1
	Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.		Result Qualifier RL	Result Qualifier RL MDL	Result Qualifier RL MDL Unit mg/Kg	Result Qualifier RL MDL Unit D <0.00200	Result Qualifier RL MDL Unit D Prepared <0.00200	Result Qualifier RL MDL Unit D Prepared Analyzed <0.00200 U

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)
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Analyte	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		<50.0	U	50.0		mg/Kg			08/23/22 11:36	1

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Job ID: 890-2784-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-167 (8')

Sample Depth: 8

Client Sample ID: BH-167 (8')	Lab Sample ID: 890-2784-8
Date Collected: 08/18/22 00:00	Matrix: Solid
Date Received: 08/19/22 08:00	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:49	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:49	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130				08/22/22 13:43	08/23/22 01:49	1
o-Terphenyl	70		70 - 130				08/22/22 13:43	08/23/22 01:49	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2784-9 Client Sample ID: BH-168 (5') Date Collected: 08/18/22 00:00 Matrix: Solid

Date Received: 08/19/22 08:00

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 02:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 02:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 02:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 02:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 02:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 02:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/30/22 12:01	09/01/22 02:43	1
1,4-Difluorobenzene (Surr)	94		70 - 130				08/30/22 12:01	09/01/22 02:43	1
Method: 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			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		08/22/22 13:43	08/23/22 02:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 02:10	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				08/22/22 13:43	08/23/22 02:10	1
o-Terphenyl	71		70 ₋ 130				08/22/22 13:43	08/23/22 02:10	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

Client Sample ID: BH-168 (5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 5

Lab Sample ID: 890-2784-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	354		4.98		mg/Kg			08/29/22 05:46	1

Client Sample ID: BH-169 (5') Lab Sample ID: 890-2784-10 **Matrix: Solid**

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 03:04	
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 03:04	,
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 03:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/30/22 12:01	09/01/22 03:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 03:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/30/22 12:01	09/01/22 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				08/30/22 12:01	09/01/22 03:04	1
1,4-Difluorobenzene (Surr)	84		70 - 130				08/30/22 12:01	09/01/22 03:04	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.5		50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 02:31	1
Diesel Range Organics (Over C10-C28)	80.5		50.0		mg/Kg		08/22/22 13:43	08/23/22 02:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	56	S1-	70 - 130				08/22/22 13:43	08/23/22 02:31	1
o-Terphenyl	69	S1-	70 - 130				08/22/22 13:43	08/23/22 02:31	1
		0 - 1 - 1 - 1 -							
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chro Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2784-11

Client: Tetra Tech, Inc.

Job ID: 890-2784-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-170 (5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 04:25	
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 04:25	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 04:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 04:25	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 04:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 04:25	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				08/30/22 12:01	09/01/22 04:25	1
1,4-Difluorobenzene (Surr)	87		70 - 130				08/30/22 12:01	09/01/22 04:25	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:44	
Analyte	Result	Qualifier	RL	MDI	Unit				
	ixcount		11	IVIDE	Oilit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	INDL	mg/Kg	=	Frepareu	08/23/22 11:36	
Total TPH Method: 8015B NM - Diesel Ran	<49.9 ge Organics (D	U (GC)	49.9		mg/Kg			08/23/22 11:36	
Total TPH Method: 8015B NM - Diesel Rang Analyte	<49.9 ge Organics (D Result	RO) (GC) Qualifier	49.9	MDL	mg/Kg	<u>D</u>	Prepared	08/23/22 11:36 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Ran	<49.9 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg			08/23/22 11:36	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9 ge Organics (D Result	RO) (GC) Qualifier	49.9		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<pre>ge Organics (D) Result </pre>	U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 03:14	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	49.9 ge Organics (D) Result <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 03:14 08/23/22 03:14	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (D) Result <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 03:14 08/23/22 03:14 08/23/22 03:14	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery	U RO) (GC) Qualifier U U Qualifier S1-	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared	08/23/22 11:36 Analyzed 08/23/22 03:14 08/23/22 03:14 08/23/22 03:14 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 57 66	U RO) (GC) Qualifier U U Qualifier S1- S1-	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 03:14 08/23/22 03:14 08/23/22 03:14 Analyzed 08/23/22 03:14	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 57 66 omatography -	U RO) (GC) Qualifier U U Qualifier S1- S1-	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 03:14 08/23/22 03:14 08/23/22 03:14 Analyzed 08/23/22 03:14	Dil Fac

Client Sample ID: BH-171 (5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 04:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 04:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 04:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/30/22 12:01	09/01/22 04:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 04:46	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/30/22 12:01	09/01/22 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				08/30/22 12:01	09/01/22 04:46	1

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Lab Sample ID: 890-2784-12

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Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-171 (5')

Lab Sample ID: 890-2784-12

Date Collected: 08/18/22 00:00 Matrix: Solid
Date Received: 08/19/22 08:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds	(GC)	(Continued)
michiod. 002 ID - Volatile Organic Compounds	1001	(Oditiliaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	84	70 - 130	08/30/22 12:01	09/01/22 04:46	1

Method: Total	RTFX - Total	BTFX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396 U	0.00396	ma/Ka			09/01/22 12:44	1

Method: 8015 NM - Diesel Range	Organics	(DRO) (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	75.0	50.0	ma/Ka			08/23/22 11:36	1	

Method: 8015B	NM - Diesel	Range Ore	anice l	(DRO)	(GC)
Methou. ou isb	IAIN - DIESEI	Range Org	janics i	(DRU)	(GC)

Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 03:35	1
Diesel Range Organics (Over C10-C28)	75.0		50.0		mg/Kg		08/22/22 13:43	08/23/22 03:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	08	8/22/22 13:43	08/23/22 03:35	1
o-Terphenyl	84		70 - 130	08	8/22/22 13:43	08/23/22 03:35	1

Method: 300.0 - Anions,	Ion Chromatography - Soluble	

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180	5.04	mg/Kg			08/29/22 06:10	1

Client Sample ID: BH-172 (6')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 6

Method: 8021B -	Malatile O		
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 05:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 05:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 05:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 05:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 05:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 05:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				08/30/22 12:01	09/01/22 05:06	1
1,4-Difluorobenzene (Surr)	80		70 - 130				08/30/22 12:01	09/01/22 05:06	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	ט	Prepared	Analyzed	DII Fac
Total BTEX	<0.00402	U	0.00402	_	mg/Kg			09/01/22 12:44	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	ma/Ka			08/23/22 11:36	1

Eurofins Carlsbad

Lab Sample ID: 890-2784-13

Matrix: Solid

2

3

4

7

9

10

12

Lab Sample ID: 890-2784-13

Lab Sample ID: 890-2784-14

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-172 (6')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 6

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 03:56	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 03:56	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				08/22/22 13:43	08/23/22 03:56	1
o-Terphenyl	84		70 - 130				08/22/22 13:43	08/23/22 03:56	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		5.02		mg/Kg			08/29/22 06:17	1

Client Sample ID: BH-173 (6')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 05:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 05:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 05:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 05:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 05:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				08/30/22 12:01	09/01/22 05:26	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/30/22 12:01	09/01/22 05:26	1
Method: 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			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		08/22/22 13:43	08/23/22 04:17	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 04:17	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 04:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130				08/22/22 13:43	08/23/22 04:17	1
o-Terphenyl	77		70 - 130				08/22/22 13:43	08/23/22 04:17	1

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-2784-1 SDG: Lea County NM

SDG: Lea County NM

Client Sample ID: BH-173 (6')

Date Collected: 08/18/22 00:00

Lab S

Lab Sample ID: 890-2784-14 Matrix: Solid

Sample Depth: 6

Method: 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride3294.95mg/Kg08/29/22 07:201

Client Sample ID: BH-174 (6')

Lab Sample ID: 890-2784-15

Date Collected: 08/18/22 00:00 Matrix: Solid

Date Received: 08/19/22 08:00

Date Received: 08/19/22 08:00

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00196	U	0.00196		mg/Kg		08/30/22 12:01	09/01/22 05:47	
Toluene	<0.00196	U	0.00196		mg/Kg		08/30/22 12:01	09/01/22 05:47	
Ethylbenzene	< 0.00196	U	0.00196		mg/Kg		08/30/22 12:01	09/01/22 05:47	
m-Xylene & p-Xylene	<0.00393	U	0.00393		mg/Kg		08/30/22 12:01	09/01/22 05:47	
o-Xylene	< 0.00196	U	0.00196		mg/Kg		08/30/22 12:01	09/01/22 05:47	
Xylenes, Total	<0.00393	U	0.00393		mg/Kg		08/30/22 12:01	09/01/22 05:47	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	130		70 - 130				08/30/22 12:01	09/01/22 05:47	
1,4-Difluorobenzene (Surr)	81		70 - 130				08/30/22 12:01	09/01/22 05:47	
Method: Total BTEX - Total BTEX	K Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U							
-		_	50.0		mg/Kg			08/23/22 11:36	
Method: 8015B NM - Diesel Rang	ge Organics (D		50.0		mg/Kg			08/23/22 11:36	•
	•		8L	MDL		D	Prepared	08/23/22 11:36 Analyzed	
Analyte Gasoline Range Organics	•	RO) (GC)		MDL		<u>D</u>	Prepared 08/22/22 13:43		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	<u>.</u>	Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result < 50.0	RO) (GC) Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	08/22/22 13:43	Analyzed 08/23/22 04:38	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0	RO) (GC) Qualifier U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	08/22/22 13:43 08/22/22 13:43	Analyzed 08/23/22 04:38 08/23/22 04:38	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43	Analyzed 08/23/22 04:38 08/23/22 04:38 08/23/22 04:38	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier	FL 50.0 50.0 50.0 Limits	MDL	Unit mg/Kg mg/Kg	<u> </u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared	Analyzed 08/23/22 04:38 08/23/22 04:38 08/23/22 04:38 Analyzed	Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	RO) (GC) Qualifier U U Qualifier S1-	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	Analyzed 08/23/22 04:38 08/23/22 04:38 08/23/22 04:38 Analyzed 08/23/22 04:38	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	RO) (GC) Qualifier U U Qualifier S1-	RL 50.0 50.0 50.0 50.0 Limits 70 - 130		Unit mg/Kg mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	Analyzed 08/23/22 04:38 08/23/22 04:38 08/23/22 04:38 Analyzed 08/23/22 04:38	Dil Fac

Lab Sample ID: 890-2784-16

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-175 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 06:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 06:07	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 06:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 06:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 06:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 06:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/30/22 12:01	09/01/22 06:07	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/30/22 12:01	09/01/22 06:07	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:44	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared		
						=		Analyzed	DII Fac
Total TPH	<49.9	U	49.9		mg/Kg	_ =		08/23/22 11:36	
Total TPH Method: 8015B NM - Diesel Ran			49.9		mg/Kg	_ =			
• -	ge Organics (D		49.9 RL	MDL			Prepared		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL				08/23/22 11:36	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit		Prepared	08/23/22 11:36 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 04:59 08/23/22 04:59	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg		Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 04:59	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared	08/23/22 11:36 Analyzed 08/23/22 04:59 08/23/22 04:59 08/23/22 04:59 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 59	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 04:59 08/23/22 04:59 08/23/22 04:59	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared	08/23/22 11:36 Analyzed 08/23/22 04:59 08/23/22 04:59 08/23/22 04:59 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 59 71 omatography -	RO) (GC) Qualifier U U Qualifier S1-	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 04:59 08/23/22 04:59 08/23/22 04:59 Analyzed 08/23/22 04:59	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 59 71 omatography -	RO) (GC) Qualifier U U Qualifier S1-	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 04:59 08/23/22 04:59 08/23/22 04:59 Analyzed 08/23/22 04:59	Dil Face 1 Dil Face 1 Dil Face 1 Dil Face 1 Dil Face 1 Dil Face 1

Client Sample ID: BH-176 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 06:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 06:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 06:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 06:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 06:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 06:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				08/30/22 12:01	09/01/22 06:28	1

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-2784-17

2

4

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0

10

12

Lab Sample ID: 890-2784-17

08/23/22 05:21

Lab Sample ID: 890-2784-18

Matrix: Solid

08/22/22 13:43

Client: Tetra Tech, Inc.

Job ID: 890-2784-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-176 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
motification to a gaine compa	Julius (33)	(Continuou,

Surrogate		ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91	70 - 130	08/30/22 12:01	09/01/22 06:28	1

Method: Tot	al BTEX - Tota	al BTEX Ca	alculation
mounou. Tot	u. D. L		aiouiutioii

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg		_	09/01/22 12:44	1

Mothod: 8015 NM -	Diosal Range	Organice	(DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/K			08/23/22 11:36	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 05:21	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 05:21	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 05:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				08/22/22 13:43	08/23/22 05:21	1

1-Chlorooctane	58 S1-	70 - 130
o-Terphenyl	69 S1-	70 - 130

Method: 300.0 - A	nions, Ion Chromatograph	/ - Soluble							
Analyte	Res	ult Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride		54	5.05		mg/Kg			08/29/22 08:00	1

Client Sample ID: BH-177 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	• voiatile Organic	Compounds (GC)

Michiga. 002 1D - Volatile Orga	ine compounds	(30)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 06:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 06:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 06:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:01	09/01/22 06:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 06:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:01	09/01/22 06:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				08/30/22 12:01	09/01/22 06:48	1
1,4-Difluorobenzene (Surr)	93		70 - 130				08/30/22 12:01	09/01/22 06:48	1

Mothod:	Total RTEY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepa	red Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		ma/Ka			09/01/22 12:44	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			08/23/22 11:36	1

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Lab Sample ID: 890-2784-18

Lab Sample ID: 890-2784-19

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-177 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 05:42	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 05:42	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 05:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130				08/22/22 13:43	08/23/22 05:42	1
o-Terphenyl	73		70 - 130				08/22/22 13:43	08/23/22 05:42	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-178 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 07:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 07:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 07:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:01	09/01/22 07:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 07:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:01	09/01/22 07:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				08/30/22 12:01	09/01/22 07:09	1
1,4-Difluorobenzene (Surr)	88		70 - 130				08/30/22 12:01	09/01/22 07:09	1
Method: 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			09/01/22 12:44	1
•									
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•	•	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U		MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg		<u> </u>	08/23/22 11:36	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (D	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 06:03	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 06:03 08/23/22 06:03	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 06:03 08/23/22 06:03 08/23/22 06:03	1 Dil Fac 1 1

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Released to Imaging: 9/1/2023 3:11:42 PM

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

Client Sample ID: BH-178 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Lab Sample ID: 890-2784-19

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble										
1	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	632		5.02		mg/Kg			08/29/22 08:31	1

Client Sample ID: BH-179 (4.5') Lab Sample ID: 890-2784-20 Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 07:29	
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 07:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 07:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 07:29	
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 07:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 07:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				08/30/22 12:01	09/01/22 07:29	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/30/22 12:01	09/01/22 07:29	1
Method: 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			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		08/22/22 13:43	08/23/22 06:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 06:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 06:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				08/22/22 13:43	08/23/22 06:24	1
o-Terphenyl	75		70 - 130				08/22/22 13:43	08/23/22 06:24	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2784-21

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-180 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 18:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 18:05	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 18:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	08/31/22 18:05	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 18:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	08/31/22 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/30/22 12:16	08/31/22 18:05	1
1,4-Difluorobenzene (Surr)	106		70 - 130				08/30/22 12:16	08/31/22 18:05	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:44	1
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	mg/Kg	D	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	
									1
Method: 8015B NM - Diesel Rang	• •								1
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
	• •	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/22/22 16:33		Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier U		MDL		<u>D</u>	<u>.</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	08/22/22 16:33	Analyzed 08/24/22 13:21	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U U	49.9	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33	Analyzed 08/24/22 13:21 08/24/22 13:21	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg	<u> </u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33	Analyzed 08/24/22 13:21 08/24/22 13:21 08/24/22 13:21	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	49.9 49.9 49.9 Limits	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared	Analyzed 08/24/22 13:21 08/24/22 13:21 08/24/22 13:21 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	Analyzed 08/24/22 13:21 08/24/22 13:21 08/24/22 13:21 Analyzed 08/24/22 13:21	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	Analyzed 08/24/22 13:21 08/24/22 13:21 08/24/22 13:21 Analyzed 08/24/22 13:21	Dil Face

Client Sample ID: BH-181 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 18:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 18:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 18:25	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/30/22 12:16	08/31/22 18:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 18:25	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/30/22 12:16	08/31/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				08/30/22 12:16	08/31/22 18:25	1

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Lab Sample ID: 890-2784-22

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Matrix: Solid

Lab Sample ID: 890-2784-22

08/22/22 16:33

08/24/22 14:26

Lab Sample ID: 890-2784-23

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-181 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Method: 8021B - Volatile Orga	nic Compounds	(GC) (C	Continued)
Welliod. 002 ID - Volalile Orga	inc compounds	100/10	Jonania Cu j

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	08/30/22 12:16	08/31/22 18:25	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/01/22 12:44	1

ı		
ı	Method: 8015 NM - Diesel Range Organics (DRO)	(CC)
ı	Method. 0013 NM - Diesel Kange Organics (DKO)	(00)

Analyte	Result Qua	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			08/23/22 11:36	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 14:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 14:26	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	114	70 - 130
o-Terphenyl	110	70 - 130

Method: 300.0 - Anions, Ion Chromatography - Soluble											
	Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
	Chloride	1560		25.1		mg/Kg				08/29/22 08:54	5

Client Sample ID: BH-182 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00 Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

wethod: 8021B - Volatile Organic Compounds								
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 18:46	1
<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 18:46	1
<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 18:46	1
<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 18:46	1
<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 18:46	1
<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 18:46	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
93		70 - 130				08/30/22 12:16	08/31/22 18:46	1
108		70 - 130				08/30/22 12:16	08/31/22 18:46	1
	Result <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <0.00400 <0.00400 #Recovery 93	Result Qualifier	Result Qualifier RL	Result Qualifier RL MDL <0.00200	Result Qualifier RL MDL Unit <0.00200	Result Qualifier RL MDL Unit D	Result Qualifier RL MDL Unit D Prepared <0.00200	Result Qualifier RL MDL Unit D Prepared Analyzed <0.00200 U

Method: T	otal RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:44	1

Analyte	Result Qu	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			08/23/22 11:36	1

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Lab Sample ID: 890-2784-23

Lab Sample ID: 890-2784-24

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-182 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0		50.0		mg/Kg	— <u>-</u>	08/22/22 16:33	08/24/22 14:47	
(GRO)-C6-C10	\30.0	U	30.0		ilig/Rg		00/22/22 10.55	00/24/22 14.47	ı
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 14:47	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/22/22 16:33	08/24/22 14:47	1
o-Terphenyl	97		70 - 130				08/22/22 16:33	08/24/22 14:47	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
		O1161	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL.	MIDL	Ullit	U	riepaieu	Allalyzeu	Diriac

Client Sample ID: BH-183 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:06	
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/30/22 12:16	08/31/22 19:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/30/22 12:16	08/31/22 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/30/22 12:16	08/31/22 19:06	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/30/22 12:16	08/31/22 19:06	1
Method: 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			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDI	Unit	_			
				MIDE	Oilit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	WIDE	mg/Kg	D	Prepared	Analyzed 08/23/22 11:36	Dil Fac
• •		U		MDL		D	Prepared		
: Method: 8015B NM - Diesel Rang	ge Organics (D	U		MDL	mg/Kg	D	Prepared		
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 15:17	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 15:17 08/24/22 15:17	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 15:17 08/24/22 15:17	1 Dil Fac

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Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

Client Sample ID: BH-183 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Lab Sample ID: 890-2784-24

Matrix: Solid

Method: 300.0 - Anions, Ion Chron	natography - Sol	uble						
Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050	4.97		mg/Kg			08/29/22 09:10	1

Client Sample ID: BH-184 (4.5')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-25

Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:26	
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:26	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:26	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 19:26	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:26	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 19:26	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	93		70 - 130				08/30/22 12:16	08/31/22 19:26	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/30/22 12:16	08/31/22 19:26	1
Method: 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			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	•								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 16:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 16:17	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	111		70 - 130				08/22/22 16:33	08/24/22 16:17	1
o-Terphenyl	109		70 - 130				08/22/22 16:33	08/24/22 16:17	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-185 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2784-26

Matrix: Solid

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	08/31/22 19:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	08/31/22 19:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	08/31/22 19:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:16	08/31/22 19:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	08/31/22 19:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:16	08/31/22 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				08/30/22 12:16	08/31/22 19:47	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/30/22 12:16	08/31/22 19:47	1
Method: 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			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		08/22/22 16:33	08/24/22 16:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 16:39	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				08/22/22 16:33	08/24/22 16:39	1
o-Terphenyl	113		70 - 130				08/22/22 16:33	08/24/22 16:39	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	• • •	Qualifier	RL						

Client Sample ID: BH-186 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Chloride

REMOVED FROM ANALYSIS TABLE

588

Lab Sample ID: 890-2784-27

08/29/22 09:42

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:16	08/31/22 20:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:16	08/31/22 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/30/22 12:16	08/31/22 20:07	1

5.01

mg/Kg

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-186 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2784-27

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130				08/30/22 12:16	08/31/22 20:07	1
Method: Total BTEX - Total BTE	K Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	914		50.0		mg/Kg			08/23/22 11:36	1
	Resilii	Qualitier	RL	MDI	Unit	ם	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte									
Gasoline Range Organics	<50.0	Qualifier U		MDL	mg/Kg	D	Prepared 08/22/22 16:33	Analyzed 08/24/22 18:48	Dil Fac
Gasoline Range Organics (GRO)-C6-C10				MDL		<u>D</u>			Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0		50.0	MDL	mg/Kg	<u>D</u>	08/22/22 16:33	08/24/22 18:48	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	08/22/22 16:33	08/24/22 18:48	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 914	U	50.0	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33	08/24/22 18:48 08/24/22 18:48	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 914 <50.0	U	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33	08/24/22 18:48 08/24/22 18:48 08/24/22 18:48	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 914 <50.0 %Recovery	U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared	08/24/22 18:48 08/24/22 18:48 08/24/22 18:48 Analyzed	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 914 <50.0 %Recovery 92 91	U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	08/24/22 18:48 08/24/22 18:48 08/24/22 18:48 Analyzed 08/24/22 18:48	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	<50.0 914 <50.0 %Recovery 92 91 omatography -	U U Qualifier	50.0 50.0 50.0 Limits 70 - 130		mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	08/24/22 18:48 08/24/22 18:48 08/24/22 18:48 Analyzed 08/24/22 18:48	Dil Fac Dil Fac Dil Fac Dil Fac

Client Sample ID: BH-187 (4.5') Lab Sample ID: 890-2784-28 **Matrix: Solid**

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Total TPH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 20:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 20:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 20:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:16	08/31/22 20:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 20:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:16	08/31/22 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/30/22 12:16	08/31/22 20:28	1
1,4-Difluorobenzene (Surr)	107		70 - 130				08/30/22 12:16	08/31/22 20:28	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/01/22 12:44	1
- Method: 8015 NM - Diesel Rar	ige Organics (DR	O) (GC)							
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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08/23/22 11:36

49.9

mg/Kg

<49.9 U

Lab Sample ID: 890-2784-28

Lab Sample ID: 890-2784-29

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-187 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		08/22/22 16:33	08/24/22 17:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 17:01	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/22/22 16:33	08/24/22 17:01	1
o-Terphenyl	97		70 - 130				08/22/22 16:33	08/24/22 17:01	1

Method: 300.0 - Anions, Ion Chromat	ography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	816		4.97		mg/Kg			08/29/22 10:13	1

Client Sample ID: BH-188 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:16	08/31/22 20:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:16	08/31/22 20:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				08/30/22 12:16	08/31/22 20:48	1
1,4-Difluorobenzene (Surr)	106		70 - 130				08/30/22 12:16	08/31/22 20:48	1
Method: 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			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•	•	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U				<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			08/23/22 11:36	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Je Organics (D Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 Continue	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 17:23	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 17:23 08/24/22 17:23	
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 17:23 08/24/22 17:23	Dil Fac 1 1

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9/1/2022

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

Client Sample ID: BH-188 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Lab Sample ID: 890-2784-29

Matrix: Solid

Method: 300.0 - Anions, Ion Chror	natography - Solub	ole					
Analyte	Result Qualifi	fier RL	MDL Un	it D	Prepared	Analyzed	Dil Fac
Chloride	1360	25.0	mg	ı/Kg		08/29/22 10:21	5

Lab Sample ID: 890-2784-30 **Client Sample ID: BH-189 (4.5')** Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 22:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 22:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 22:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/30/22 12:16	08/31/22 22:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 22:59	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/30/22 12:16	08/31/22 22:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				08/30/22 12:16	08/31/22 22:59	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/30/22 12:16	08/31/22 22:59	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Rar	ige Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<u> </u>	U	49.8		ma/Ka			08/23/22 11:36	1

Total TPH	<49.8	U	49.8		mg/Kg			08/23/22 11:36	1
- Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (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		08/22/22 16:33	08/24/22 17:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/22/22 16:33	08/24/22 17:44	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/22/22 16:33	08/24/22 17:44	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				08/22/22 16:33	08/24/22 17:44	1
o-Terphenyl	93		70 - 130				08/22/22 16:33	08/24/22 17:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	181		5.04		mg/Kg			08/29/22 10:29	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-38 (4.5-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Sample Depth: 4.5 - 13

Lab Sample ID: 890-2784-31

Matrix: Solid

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0404	U	0.0404		mg/Kg		08/30/22 12:16	08/31/22 21:09	20
Toluene	<0.0404	U	0.0404		mg/Kg		08/30/22 12:16	08/31/22 21:09	20
Ethylbenzene	<0.0404	U	0.0404		mg/Kg		08/30/22 12:16	08/31/22 21:09	20
m-Xylene & p-Xylene	<0.0808	U	0.0808		mg/Kg		08/30/22 12:16	08/31/22 21:09	20
o-Xylene	<0.0404	U	0.0404		mg/Kg		08/30/22 12:16	08/31/22 21:09	20
Xylenes, Total	<0.0808	U	0.0808		mg/Kg		08/30/22 12:16	08/31/22 21:09	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				08/30/22 12:16	08/31/22 21:09	20
1,4-Difluorobenzene (Surr)	87		70 - 130				08/30/22 12:16	08/31/22 21:09	20
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0808	U	0.0808		mg/Kg			09/01/22 12:44	1
Analyte Total TPH	Result151	Qualifier	RL 49.9	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Total TPH	151		49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		08/22/22 16:33	08/24/22 20:15	1
Diesel Range Organics (Over C10-C28)	151		49.9		mg/Kg		08/22/22 16:33	08/24/22 20:15	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				08/22/22 16:33	08/24/22 20:15	1
o-Terphenyl	116		70 - 130				08/22/22 16:33	08/24/22 20:15	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-42 (4.5-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Sample Depth: 4.5 - 8

Lab Sample ID: 890-2784-32

Matrix: Solid

Analyte	Posult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte				WIDE		_ =			Dillac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 23:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 23:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 23:19	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:16	08/31/22 23:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 23:19	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:16	08/31/22 23:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				08/30/22 12:16	08/31/22 23:19	

Lab Sample ID: 890-2784-32

Lab Sample ID: 890-2784-33

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-42 (4.5-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 8

Method: 8021B - Volati	le Organic Comp	ounds (GC)	(Continued)
modifical coaling foliati	io organio comp	, o a a o , o o ,	(Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106	70 - 130	08/30/22 12:16	08/31/22 23:19	1

Method:	Total BTF)	C - Total	RTFX	Calculation
Metriou.	IUlai DIL	· - IUlai		Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/01/22 12:44	1

Method: 8015 NM - Diesel	Range Organics (DRO) (GO	2)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			08/23/22 11:36	1

Mathadi 001ED	NM Discal Day	an Organian	(DBO) (CC)
Method: 8015B	nivi - Diesei Kai	ide Ordanics	IDKUI IGGI

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 18:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 18:06	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	08/22/22 16	5:33 08/24/22 18:06	1
o-Terphenyl	113		70 - 130	08/22/22 16	5:33 08/24/22 18:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107	4.97	mg/Kg			08/29/22 10:44	1

Client Sample ID: SW-43 (6-8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	• voiatile Organic	Compounds (GC)

		()							
Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	r	mg/Kg		08/30/22 12:16	08/31/22 23:40	1
Toluene	< 0.00199	U	0.00199	r	mg/Kg		08/30/22 12:16	08/31/22 23:40	1
Ethylbenzene	< 0.00199	U	0.00199	r	mg/Kg		08/30/22 12:16	08/31/22 23:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	r	mg/Kg		08/30/22 12:16	08/31/22 23:40	1
o-Xylene	< 0.00199	U	0.00199	r	mg/Kg		08/30/22 12:16	08/31/22 23:40	1
Xylenes, Total	<0.00398	U	0.00398	r	mg/Kg		08/30/22 12:16	08/31/22 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				08/30/22 12:16	08/31/22 23:40	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/30/22 12:16	08/31/22 23:40	1

Method:	Total RTF)	(- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka	 		09/01/22 12:44	1

Analyte	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		<50.0	U	50.0		mg/Kg			08/23/22 11:36	1

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Lab Sample ID: 890-2784-33

Lab Sample ID: 890-2784-34

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-43 (6-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 20:36	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 20:36	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/22/22 16:33	08/24/22 20:36	1
o-Terphenyl	100		70 - 130				08/22/22 16:33	08/24/22 20:36	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			5.04		mg/Kg			08/29/22 10:52	

Client Sample ID: SW-44 (4.5-8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 00:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 00:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 00:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/30/22 12:16	09/01/22 00:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 00:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/30/22 12:16	09/01/22 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				08/30/22 12:16	09/01/22 00:00	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/30/22 12:16	09/01/22 00:00	1
- Method: 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			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
- Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		08/22/22 16:33	08/24/22 20:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 20:58	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				08/22/22 16:33	08/24/22 20:58	1
o-Terphenyl	113		70 ₋ 130				08/22/22 16:33	08/24/22 20:58	1

Lab Sample ID: 890-2784-34

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-44 (4.5-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 8

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	955	F2 F1	5.04		mg/Kg			08/29/22 14:49	1	

Client Sample ID: SW-45 (0-8')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-35

Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	09/01/22 00:20	
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	09/01/22 00:20	1
Ethylbenzene	0.0108		0.00201		mg/Kg		08/30/22 12:16	09/01/22 00:20	1
m-Xylene & p-Xylene	0.0209		0.00402		mg/Kg		08/30/22 12:16	09/01/22 00:20	1
o-Xylene	0.0251		0.00201		mg/Kg		08/30/22 12:16	09/01/22 00:20	1
Xylenes, Total	0.0460		0.00402		mg/Kg		08/30/22 12:16	09/01/22 00:20	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				08/30/22 12:16	09/01/22 00:20	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/30/22 12:16	09/01/22 00:20	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0568		0.00402		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	•	, , ,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1110		50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	•								
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	79.7		50.0		mg/Kg		08/22/22 16:33	08/24/22 19:32	1
Diesel Range Organics (Over C10-C28)	1030		50.0		mg/Kg		08/22/22 16:33	08/24/22 19:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				08/22/22 16:33	08/24/22 19:32	1
o-Terphenyl	99		70 - 130				08/22/22 16:33	08/24/22 19:32	1
Method: 300.0 - Anions, Ion Chro	•								
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Chloride	679		5.02		mg/Kg			08/29/22 15:12	1

Lab Sample ID: 890-2784-36

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-46 (0-5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 00:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 00:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 00:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	09/01/22 00:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 00:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	09/01/22 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/30/22 12:16	09/01/22 00:41	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/30/22 12:16	09/01/22 00:41	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:44	1
Analyte Total TPH	Result	Qualifier U	RL 49.9	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	
								00/20/22 11:00	1
Method: 8015B NM - Diesel Rang	• •								1
Method: 8015B NM - Diesel Ran Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Analyte	• •	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/22/22 16:33		
Analyte Gasoline Range Organics	Result	Qualifier U		MDL		<u>D</u>	<u>.</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u> </u>	08/22/22 16:33	Analyzed 08/24/22 21:19	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U U	49.9	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33	Analyzed 08/24/22 21:19 08/24/22 21:19	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33	Analyzed 08/24/22 21:19 08/24/22 21:19 08/24/22 21:19	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	49.9 49.9 49.9 Limits	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared	Analyzed 08/24/22 21:19 08/24/22 21:19 08/24/22 21:19 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	Analyzed 08/24/22 21:19 08/24/22 21:19 08/24/22 21:19 Analyzed 08/24/22 21:19	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	D	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	Analyzed 08/24/22 21:19 08/24/22 21:19 08/24/22 21:19 Analyzed 08/24/22 21:19	Dil Fac

Client Sample ID: SW-47 (0-5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 01:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 01:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 01:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/30/22 12:16	09/01/22 01:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 01:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/30/22 12:16	09/01/22 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/30/22 12:16	09/01/22 01:01	

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Matrix: Solid

Lab Sample ID: 890-2784-37

Lab Sample ID: 890-2784-37

Lab Sample ID: 890-2784-38

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-47 (0-5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 5

Method: 8021B - Volatile	Organic Con	npounds (GC	(Continued)
	g	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, (

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92	70 - 130	08/30/22 12:16	09/01/22 01:01	1

Method: Tota	I BTEX - Total	BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/01/22 12:44	1

ı		
ı	Method: 8015 NM - Diesel Range Organics (DRO)	(CC)
ı	Method. 0013 NM - Diesel Kange Organics (DKO)	(00)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/K			08/23/22 11:36	1

		_			
Method: 8015B	NM - Diesel	Range Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOL	itunge or	garnoo (D. (O)	(–

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 21:41	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 21:41	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 21:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Quaimer	Limits	Prepared	Anaiyzea	DII Fac
1-Chlorooctane	116		70 - 130	08/22/22 16	:33 08/24/22 21:41	1
o-Terphenyl	112		70 - 130	08/22/22 16	:33 08/24/22 21:41	1
_						

 $\label{eq:method:method:method:one} \textbf{Method: 300.0 - Anions, Ion Chromatography - Soluble}$

Analyte	Result Qualifie		MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	558	4.98	mg/Kg	3		08/29/22 15:28	1

Client Sample ID: SW-48 (6-8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
Toluene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				08/30/22 12:16	09/01/22 01:21	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/30/22 12:16	09/01/22 01:21	1

Method: T	otal RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg		_	09/01/22 12:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total TPH	117		50.0		mg/Kg				08/23/22 11:36	1

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Lab Sample ID: 890-2784-38

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-48 (6-8')

Date Collected: 08/18/22 00:00

Date Collected: 08/18/22 00:00	Matrix: Solid
Date Received: 08/19/22 08:00	
Sample Depth: 6 - 8	
Mathed: 2045D NM. Dissel Dance Organics (DDO) (CC)	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 19:53	1
(GRO)-C6-C10									
Diesel Range Organics (Over	117		50.0		mg/Kg		08/22/22 16:33	08/24/22 19:53	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/22/22 16:33	08/24/22 19:53	1
o-Terphenyl	98		70 - 130				08/22/22 16:33	08/24/22 19:53	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte									

Client Sample ID: SW-49 (4.5-6') Lab Sample ID: 890-2784-39 Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 6

Method: 8021B - Volatile Organic	; Compounas (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 01:42	
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 01:42	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 01:42	•
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/30/22 12:16	09/01/22 01:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 01:42	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/30/22 12:16	09/01/22 01:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				08/30/22 12:16	09/01/22 01:42	
1,4-Difluorobenzene (Surr)	104		70 - 130				08/30/22 12:16	09/01/22 01:42	1
	<0.00397	Qualifier U	0.00397	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 09/01/22 12:44	
Total BTEX Method: 8015 NM - Diesel Range	<0.00397 Organics (DR	U (GC)	0.00397		mg/Kg	<u> </u>		09/01/22 12:44	
Total BTEX Method: 8015 NM - Diesel Range Analyte	<0.00397 Organics (DR	U				<u>D</u>	Prepared		Dil Fa
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	<0.00397 Organics (DR) Result 264 ge Organics (DI) Result	O) (GC) Qualifier RO) (GC) Qualifier	0.00397 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit	<u> </u>		09/01/22 12:44 Analyzed	Dil Fa
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<0.00397 Organics (DR) Result 264 ge Organics (DI)	O) (GC) Qualifier RO) (GC) Qualifier	0.00397 RL 50.0	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	09/01/22 12:44 Analyzed 08/23/22 11:36	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00397 Organics (DR) Result 264 ge Organics (DI) Result	O) (GC) Qualifier RO) (GC) Qualifier	0.00397 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	09/01/22 12:44 Analyzed 08/23/22 11:36 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00397 Organics (DR) Result 264 ge Organics (D) Result <50.0	O) (GC) Qualifier RO) (GC) Qualifier U	0.00397 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 08/22/22 16:33	09/01/22 12:44 Analyzed 08/23/22 11:36 Analyzed 08/24/22 19:10	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00397 Organics (DR) Result 264 ge Organics (Di Result <50.0	O) (GC) Qualifier RO) (GC) Qualifier U	0.00397 RL 50.0 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 08/22/22 16:33 08/22/22 16:33	Analyzed 08/23/22 11:36 Analyzed 08/24/22 19:10 08/24/22 19:10	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00397 Organics (DR) Result 264 ge Organics (D) Result <50.0 264 <50.0	O) (GC) Qualifier RO) (GC) Qualifier U	0.00397 RL 50.0 RL 50.0 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 08/22/22 16:33 08/22/22 16:33	09/01/22 12:44 Analyzed 08/23/22 11:36 Analyzed 08/24/22 19:10 08/24/22 19:10 08/24/22 19:10	Dil Fac

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9/1/2022

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-2784-1 SDG: Lea County NM

SDG: Lea County NM

Client Sample ID: SW-49 (4.5-6')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-39 Matrix: Solid

Sample Depth: 4.5 - 6

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	975		25.0		mg/Kg			08/29/22 15:59	5

Client Sample ID: SW-53 (0-8')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-40

Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 02:02	
Toluene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 02:02	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 02:02	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	09/01/22 02:02	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 02:02	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	09/01/22 02:02	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	95		70 - 130				08/30/22 12:16	09/01/22 02:02	
1,4-Difluorobenzene (Surr)	100		70 - 130				08/30/22 12:16	09/01/22 02:02	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:44	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 22:02	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 22:02	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 22:02	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	109		70 - 130				08/22/22 16:33	08/24/22 22:02	
o-Terphenyl	106		70 - 130				08/22/22 16:33	08/24/22 22:02	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	2180		25.1		mg/Kg			08/29/22 16:07	

Lab Sample ID: 890-2784-41

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-54 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 4.5

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 05:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 05:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 05:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:29	09/01/22 05:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 05:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:29	09/01/22 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/30/22 12:29	09/01/22 05:39	
1,4-Difluorobenzene (Surr)	101		70 - 130				08/30/22 12:29	09/01/22 05:39	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/01/22 12:44	1
			RI	MDI	Unit	ח	Prenared	Analyzed	Dil Fa
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Total TPH	<50.0		50.0	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	
	<50.0	U (GC)		MDL		<u> </u>	<u> </u>		
Total TPH Method: 8015B NM - Diesel Rang	<50.0 ge Organics (D Result	RO) (GC) Qualifier	50.0			D	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0	RO) (GC) Qualifier	50.0		mg/Kg		<u> </u>	08/23/22 11:36	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0 ge Organics (D Result	RO) (GC) Qualifier	50.0		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (D Result <50.0 <50.0	RO) (GC) Qualifier U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/24/22 23:07 08/24/22 23:07	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (D) Result <50.0	RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/24/22 23:07	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (D Result <50.0 <50.0 <80.0 %Recovery	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared	08/23/22 11:36 Analyzed 08/24/22 23:07 08/24/22 23:07	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (D Result <50.0 <50.0 <50.0	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/24/22 23:07 08/24/22 23:07	Dil Face
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (D Result <50.0 <50.0 <80.0 %Recovery	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared	08/23/22 11:36 Analyzed 08/24/22 23:07 08/24/22 23:07 08/24/22 23:07 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D Result <50.0 <50.0 <50.0 <8ecovery 91 95 omatography -	RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/24/22 23:07 08/24/22 23:07 Analyzed 08/24/22 23:07	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D Result <50.0 <50.0 <50.0 <8ecovery 91 95 omatography -	CODE CODE CODE CODE CODE CODE CODE CODE	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/24/22 23:07 08/24/22 23:07 Analyzed 08/24/22 23:07	Dil Fac

Client Sample ID: SW-55 (4.5-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 8

Method: 8021B - Volatile Organic Compounds

Method: 8021B - Volatile Organ	ic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00197	U	0.00197		mg/Kg		08/30/22 12:29	09/01/22 06:00	1
Toluene	<0.00197	U	0.00197		mg/Kg		08/30/22 12:29	09/01/22 06:00	1
Ethylbenzene	< 0.00197	U	0.00197		mg/Kg		08/30/22 12:29	09/01/22 06:00	1
m-Xylene & p-Xylene	<0.00394	U	0.00394		mg/Kg		08/30/22 12:29	09/01/22 06:00	1
o-Xylene	< 0.00197	U	0.00197		mg/Kg		08/30/22 12:29	09/01/22 06:00	1
Xylenes, Total	<0.00394	U	0.00394		mg/Kg		08/30/22 12:29	09/01/22 06:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				08/30/22 12:29	09/01/22 06:00	1

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Lab Sample ID: 890-2784-42

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Matrix: Solid

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-2784-1 SDG: Lea County NM

Lab Sample ID: 890-2784-42

Lab Sample ID: 890-2784-43

Matrix: Solid

Client Sample ID: SW-55 (4.5-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 8

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	100		70 - 130	08/30/22 12:29	09/01/22 06:00	1

Method:	Total	RTFX	_	Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00394	U	0.00394	mg/Kg			09/01/22 12:44	1

Method: 8015 I	M - Diesel Range	e Organics (DRO) (GC	١.

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/23/22 11:36	1

Method: 8015E	R NM - Diasal R:	ange Organice	(DRO) (GC)
Michiga. 00 10L	THIN - DICSCI IN	unge Organies	(DICO) (GG)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 23:29	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 23:29	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surroyate	Mecovery Qualifier	Liiiits	rrepareu	Allalyzeu	<i>D</i> II Га
1-Chlorooctane	74	70 - 130	08/23/22 10:46	08/24/22 23:29	
o-Terphenyl	76	70 - 130	08/23/22 10:46	08/24/22 23:29	
_					

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1730	25.2	mg/Kg			08/29/22 16:23	5

Client Sample ID: SW-56 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 4.5

moniou coziz rolanic organi	o oompoundo (()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 06:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 06:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 06:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:29	09/01/22 06:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 06:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:29	09/01/22 06:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/30/22 12:29	09/01/22 06:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/30/22 12:29	09/01/22 06:20	1

Method:	Total R	TFY - T	ntal RT	FX Calcu	ılation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:44	1

	Method: 8015 NM - Diesel	Range Organics (DRO	D) (GC)	۱
ı	Michiga. 00 to Min - Diese	i italige Organics (Ditt		,

Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	r	mg/Kg			08/23/22 11:36	1

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Lab Sample ID: 890-2784-43

Lab Sample ID: 890-2784-44

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-56 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 4.5

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/24/22 23:51	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/24/22 23:51	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/24/22 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				08/23/22 10:46	08/24/22 23:51	1
o-Terphenyl	88		70 - 130				08/23/22 10:46	08/24/22 23:51	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120	-	5.03		mg/Kg			08/29/22 16:31	1

Client Sample ID: SW-57 (6-8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 06:40	
Toluene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 06:40	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 06:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:29	09/01/22 06:40	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 06:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:29	09/01/22 06:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				08/30/22 12:29	09/01/22 06:40	1
1,4-Difluorobenzene (Surr)	104		70 - 130				08/30/22 12:29	09/01/22 06:40	1
Method: 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			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•	•	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Analyte	Result <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH : Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U		MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			08/23/22 11:36	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	08/23/22 11:36 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:12	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:12	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 ge Organics (Di Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:12 08/25/22 00:12	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:12 08/25/22 00:12	1 Dil Fac

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

Client Sample ID: SW-57 (6-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Lab Sample ID: 890-2784-44

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	65.5		5.00		mg/Kg			08/29/22 16:39	1

Client Sample ID: SW-58 (6-8') Lab Sample ID: 890-2784-45 Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Analyte	c Compounds (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene			0.0100		mg/Kg		08/30/22 12:29	09/01/22 09:42	
Toluene	<0.0100		0.0100		mg/Kg		08/30/22 12:29	09/01/22 09:42	
Ethylbenzene	<0.0100		0.0100		mg/Kg		08/30/22 12:29	09/01/22 09:42	
m-Xylene & p-Xylene	<0.0200		0.0200		mg/Kg		08/30/22 12:29	09/01/22 09:42	
o-Xylene	<0.0100		0.0100		mg/Kg		08/30/22 12:29	09/01/22 09:42	
Xylenes, Total	<0.0200		0.0200		mg/Kg		08/30/22 12:29	09/01/22 09:42	;
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	45	S1-	70 - 130				08/30/22 12:29	09/01/22 09:42	
1,4-Difluorobenzene (Surr)	127		70 - 130				08/30/22 12:29	09/01/22 09:42	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0200	U	0.0200		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR)	O) (GC)							
•	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	•	, ,	RL 49.8	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	
Analyte	Result 8970	Qualifier		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result 8970 ge Organics (Di	Qualifier		MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 8970 ge Organics (Di	Qualifier RO) (GC) Qualifier	49.8		mg/Kg	_ =		08/23/22 11:36	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 8970 ge Organics (D	Qualifier RO) (GC) Qualifier	49.8		mg/Kg	_ =	Prepared	08/23/22 11:36 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result 8970 ge Organics (Di Result quarter; 49.8	Qualifier RO) (GC) Qualifier	49.8 RL 49.8		mg/Kg Unit mg/Kg	_ =	Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:33	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result	Qualifier RO) (GC) Qualifier U	49.8 RL 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:33 08/25/22 00:33	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 8970 ge Organics (Di Result < 49.8 7350 1620	Qualifier RO) (GC) Qualifier U	49.8 RL 49.8 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:33 08/25/22 00:33	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier RO) (GC) Qualifier U	49.8 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared	08/23/22 11:36 Analyzed 08/25/22 00:33 08/25/22 00:33 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier RO) (GC) Qualifier U	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:33 08/25/22 00:33 08/25/22 00:33 Analyzed 08/25/22 00:33	Dil Fac

08/29/22 17:03

4.99

mg/Kg

202

Chloride

Lab Sample ID: 890-2784-46

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-59 (6-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 07:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 07:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/30/22 12:29	09/01/22 07:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/30/22 12:29	09/01/22 07:01	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:44	1
							Pronarod	∆nalvzod	Dil Fac
Analyte Total TPH		Qualifier		MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	MDL	mg/Kg	<u> </u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang	<50.0	U (GC)	50.0		mg/Kg	=		08/23/22 11:36	1
Total TPH Method: 8015B NM - Diesel Rang Analyte	<50.0 ge Organics (D	RO) (GC) Qualifier	50.0		mg/Kg	D	Prepared	08/23/22 11:36 Analyzed	1
Total TPH Method: 8015B NM - Diesel Rang	<50.0	RO) (GC) Qualifier	50.0		mg/Kg	=		08/23/22 11:36	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0 ge Organics (D	U RO) (GC) Qualifier U	50.0		mg/Kg	=	Prepared	08/23/22 11:36 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (Digensity Result < 50.0	RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:54	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (Di Result <50.0 <50.0	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:54 08/25/22 00:54	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (Di Result <50.0 <50.0 <50.0	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:54 08/25/22 00:54	Dil Face
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared	08/23/22 11:36 Analyzed 08/25/22 00:54 08/25/22 00:54 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 *Recovery 114 115	CONTROL (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:54 08/25/22 00:54 Analyzed 08/25/22 00:54	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 *Recovery 114 115 omatography -	CONTROL (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:54 08/25/22 00:54 Analyzed 08/25/22 00:54	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: SW-60 (0-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 07:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 07:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/30/22 12:29	09/01/22 07:21	1

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Matrix: Solid

Lab Sample ID: 890-2784-47

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1 SDG: Lea County NM

Client Sample ID: SW-60 (0-13') Lab Sample ID: 890-2784-47 Date Collected: 08/18/22 00:00

Matrix: Solid

Sample Depth: 0 - 13

Date Received: 08/19/22 08:00

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
modification totaling organic compa	Julius (33)	(Continuou,

Surrogate	%Recovery Quality	fier Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	99	70 - 130	08/30/22 12:29	09/01/22 07:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit) [Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg	 		09/01/22 12:44	1

ı					
ı	Method: 8015 NM - Γ	ligeal Range (Irganice	(DRO) (G	C

Analyte	Result Qua	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			08/23/22 11:36	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (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		08/23/22 10:46	08/25/22 01:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/25/22 01:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/25/22 01:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	76Recovery Qualifier	LIIIIII	rrepareu	Allalyzeu	DII Fac
1-Chlorooctane	87	70 - 130	08/23/22 10:4	08/25/22 01:16	1
o-Terphenyl	91	70 - 130	08/23/22 10:4	16 08/25/22 01:16	1
_					

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2390	24.9	mg/Kg			08/29/22 17:32	5

Client Sample ID: SW-61 (8-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 13

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 07:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 07:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 07:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:29	09/01/22 07:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 07:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:29	09/01/22 07:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/30/22 12:29	09/01/22 07:42	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/30/22 12:29	09/01/22 07:42	1

Method:	Total RTF)	(- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka	 		09/01/22 12:44	1

	Method: 8015 NM -	- Diesel Range	Organics	(DRO)	(GC)
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.1	50.0	mg/Kg			08/23/22 11:36	1

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Lab Sample ID: 890-2784-48

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-61 (8-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 13

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		08/22/22 16:29	08/23/22 20:43	1
Diesel Range Organics (Over C10-C28)	76.1		50.0		mg/Kg		08/22/22 16:29	08/23/22 20:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/22/22 16:29	08/23/22 20:43	1
o-Terphenyl	88		70 - 130				08/22/22 16:29	08/23/22 20:43	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Pocult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

49.8

mg/Kg

Client Sample ID: SW-62 (8-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 13

Chloride

REMOVED FROM ANALYSIS TABLE

3730

Lab Sample ID: 890-2784-49

08/29/22 17:39

Lab Sample ID: 890-2784-48

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 08:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 08:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 08:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 08:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 08:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 08:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				08/30/22 12:29	09/01/22 08:02	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/30/22 12:29	09/01/22 08:02	1
Method: Total BTEX - Total BTE)	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1570		49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		08/22/22 16:29	08/23/22 22:50	1
Diesel Range Organics (Over C10-C28)	1570		49.9		mg/Kg		08/22/22 16:29	08/23/22 22:50	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/23/22 22:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/22/22 16:29	08/23/22 22:50	1
							08/22/22 16:29	08/23/22 22:50	

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RL

MDL Unit

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Sample Depth: 8 - 13

Analyte

Job ID: 890-2784-1 SDG: Lea County NM

D

Prepared

Client Sample ID: SW-62 (8-13')

Date Collected: 08/18/22 00:00
Date Received: 08/19/22 08:00

Method: 300.0 - Anions, Ion Chromatography - Soluble

REMOVED FROM ANALYSIS TABLE

Result Qualifier

Lab Sample ID: 890-2784-49

Analyzed

Matrix: Solid

Dil Fac

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Chloride	825		5.01		mg/Kg			08/29/22 17:46	1
Client Sample ID: SW-63 (8-	13')						Lab Sam	ple ID: 890-2	784-50
Date Collected: 08/18/22 00:00	-							Matri	x: Solid
Date Received: 08/19/22 08:00									
Sample Depth: 8 - 13									
_									
Method: 8021B - Volatile Organi	c Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 08:22	
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 08:22	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 08:22	•
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:29	09/01/22 08:22	
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 08:22	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:29	09/01/22 08:22	
Curromata	9/ Bassyany	Qualifier	Limits				Dranarad	Analyzad	Dil Fac
Surrogate A Bromofiliarahanzana (Surri)	%Recovery 102	Quaimer	70 - 130				Prepared 08/30/22 12:29	Analyzed 09/01/22 08:22	DII Fa
4-Bromofluorobenzene (Surr)									
1,4-Difluorobenzene (Surr)	101		70 - 130				08/30/22 12:29	09/01/22 08:22	•
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/01/22 12:44	1
- Method: 8015 NM - Diesel Range	Organics (DB)	O) (CC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	- <49.9		49.9		mg/Kg			08/23/22 11:36	
-	40.0	O	40.0		mg/ng			00/20/22 11:00	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	go Organico (D								
· ·······) · · ·	Result		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics		Qualifier	RL 49.9	MDL		<u>D</u>	Prepared 08/22/22 16:29	Analyzed 08/23/22 21:04	
Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/22/22 16:29	Analyzed 08/23/22 21:04	
(GRO)-C6-C10	<49.9	Qualifier U *1		MDL	mg/Kg	<u>D</u>	<u>·</u>		
5 5	<49.9	Qualifier U *1	49.9	MDL		<u>D</u>	08/22/22 16:29	08/23/22 21:04	
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	Qualifier U *1	49.9	MDL	mg/Kg	<u>D</u>	08/22/22 16:29	08/23/22 21:04	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9 <49.9	Qualifier U *1 U	49.9 49.9 49.9	MDL	mg/Kg	<u> </u>	08/22/22 16:29 08/22/22 16:29 08/22/22 16:29	08/23/22 21:04 08/23/22 21:04 08/23/22 21:04	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 <49.9	Qualifier U *1	49.9	MDL	mg/Kg	<u>D</u>	08/22/22 16:29 08/22/22 16:29 08/22/22 16:29 Prepared	08/23/22 21:04 08/23/22 21:04 08/23/22 21:04 Analyzed	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9 <49.9 %Recovery	Qualifier U *1 U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u> </u>	08/22/22 16:29 08/22/22 16:29 08/22/22 16:29	08/23/22 21:04 08/23/22 21:04 08/23/22 21:04	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 <49.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9	Qualifier U *1 U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u> </u>	08/22/22 16:29 08/22/22 16:29 08/22/22 16:29 Prepared 08/22/22 16:29	08/23/22 21:04 08/23/22 21:04 08/23/22 21:04 Analyzed 08/23/22 21:04	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	<49.9 <49.9 <49.9 %Recovery 97 89 omatography -	Qualifier U*1 U Qualifier Soluble	49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg mg/Kg mg/Kg		08/22/22 16:29 08/22/22 16:29 08/22/22 16:29 Prepared 08/22/22 16:29 08/22/22 16:29	08/23/22 21:04 08/23/22 21:04 08/23/22 21:04 Analyzed 08/23/22 21:04 08/23/22 21:04	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 <49.9 %Recovery 97 89 omatography -	Qualifier U *1 U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/22/22 16:29 08/22/22 16:29 08/22/22 16:29 Prepared 08/22/22 16:29	08/23/22 21:04 08/23/22 21:04 08/23/22 21:04 Analyzed 08/23/22 21:04	Dil Fac

Lab Sample ID: 890-2784-51

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-64 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 11:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 11:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 11:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 11:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 11:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 11:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				08/30/22 12:29	09/01/22 11:32	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/30/22 12:29	09/01/22 11:32	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
_			RL.	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	
Analyte Total TPH		Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH		Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte	Result <50.0 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	<u>D</u>	Prepared	08/23/22 11:36 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			08/23/22 11:36	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U *1	50.0		mg/Kg		Prepared	08/23/22 11:36 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U RO) (GC) Qualifier U *1	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 23:11	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:29 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 23:11 08/23/22 23:11	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:29 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 23:11 08/23/22 23:11 08/23/22 23:11	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:29 08/22/22 16:29 08/22/22 16:29 Prepared	08/23/22 11:36 Analyzed 08/23/22 23:11 08/23/22 23:11 08/23/22 23:11 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:29 08/22/22 16:29 08/22/22 16:29 Prepared 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 23:11 08/23/22 23:11 Analyzed 08/23/22 23:11	Dil Fac 1 1 Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:29 08/22/22 16:29 08/22/22 16:29 Prepared 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 23:11 08/23/22 23:11 Analyzed 08/23/22 23:11	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: SW-65 (8-10')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 11:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 11:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 11:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 11:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 11:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 11:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/30/22 12:29	09/01/22 11:52	1

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Lab Sample ID: 890-2784-52

Matrix: Solid

Lab Sample ID: 890-2784-52

Lab Sample ID: 890-2784-53

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-65 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Method: 8021B - Volatile Or	ganic Compounds	(GC)	(Continued)
motification to a to a to a to a to a to a to a to	gaine compounds	1/	(Continuou)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	08/30/22 12:29	09/01/22 11:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg	 		09/01/22 12:44	1

ı		
ı	Method: 8015 NM - Diesel Range Organics (DRO)	(CC)
ı	Method. 0013 NM - Diesel Kange Organics (DKO)	(00)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/K			08/23/22 11:36	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		08/22/22 16:29	08/23/22 23:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/23/22 23:32	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/23/22 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/22/22 16:29	08/23/22 23:32	1

ourroguto	70110001019	Quanno		ricparca	rinaryzou
1-Chlorooctane	96		70 - 130	08/22/22 16:29	08/23/22 23:32
o-Terphenyl	86		70 - 130	08/22/22 16:29	08/23/22 23:32

Method: 300.0) - Anions, Io	n Chromatograp	hy - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Chloride	765		4.95		mg/Kg				08/29/22 18:08	1

Client Sample ID: SW-66 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Method: 8021B - Volatile Organic Compounds (GC)

		/							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:13	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/30/22 12:29	09/01/22 12:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:13	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/30/22 12:29	09/01/22 12:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/30/22 12:29	09/01/22 12:13	1
1,4-Difluorobenzene (Surr)	107		70 - 130				08/30/22 12:29	09/01/22 12:13	1

Mothod:	Total RTEY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/01/22 12:44	1

Method: 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			08/23/22 11:36	1

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Lab Sample ID: 890-2784-53

Lab Sample ID: 890-2784-54

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-66 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		08/22/22 16:29	08/23/22 23:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 23:53	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				08/22/22 16:29	08/23/22 23:53	1
o-Terphenyl	96		70 - 130				08/22/22 16:29	08/23/22 23:53	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275		5.01		mg/Kg			08/29/22 18:15	1

Client Sample ID: SW-67 (8-10')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 12:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 12:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 12:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/30/22 12:29	09/01/22 12:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 12:33	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/30/22 12:29	09/01/22 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/30/22 12:29	09/01/22 12:33	1
1,4-Difluorobenzene (Surr)	105		70 - 130				08/30/22 12:29	09/01/22 12:33	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	II	0.00404		mg/Kg			09/01/22 12:44	1
	٠٥.٥٥٠	O	0.00404		mg/itg			00/01/22 12.44	
Method: 8015 NM - Diesel Range			0.00404		mg/Kg			03/01/22 12:44	•
	Organics (DR		0.00404 RL	MDL		D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC) Qualifier		MDL		D	Prepared		·
Method: 8015 NM - Diesel Range Analyte	Organics (DRO Result <50.0	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR) Result <50.0 e Organics (DI)	O) (GC) Qualifier	RL	MDL MDL	Unit mg/Kg	D_	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Organics (DR) Result <50.0 e Organics (DI)	Qualifier U RO) (GC) Qualifier	RL		Unit mg/Kg			Analyzed 08/23/22 11:36	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DR/Result < 50.0 e Organics (D/Result)	Qualifier U RO) (GC) Qualifier U *1	RL		Unit mg/Kg		Prepared	Analyzed 08/23/22 11:36 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR/Result < 50.0 e Organics (D/Result < 50.0	Qualifier U RO) (GC) Qualifier U *1	RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 08/22/22 16:29	Analyzed 08/23/22 11:36 Analyzed 08/24/22 00:14	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (DR Result <50.0	Qualifier U RO) (GC) Qualifier U*1 U	RL 50.0 S0.0 S0.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:29 08/22/22 16:29	Analyzed 08/23/22 11:36 Analyzed 08/24/22 00:14 08/24/22 00:14	Dil Fac Dil Fac 1 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR/Result < 50.0 e Organics (D/Result < 50.0	Qualifier U RO) (GC) Qualifier U*1 U	RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:29 08/22/22 16:29	Analyzed 08/23/22 11:36 Analyzed 08/24/22 00:14 08/24/22 00:14	Dil Fac Dil Fac 1

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

Client Sample ID: SW-67 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Lab Sample ID: 890-2784-54

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	215		5.04		mg/Kg			08/29/22 09:12	1		

Client Sample ID: SW-68 (0-6') Lab Sample ID: 890-2784-55 **Matrix: Solid**

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Method: Total BTEX - Total BTEX Calculation

Sample Depth: 0 - 6

T-4-I DTEV

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:53	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/30/22 12:29	09/01/22 12:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:53	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/30/22 12:29	09/01/22 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				08/30/22 12:29	09/01/22 12:53	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/30/22 12:29	09/01/22 12:53	1

Į	IOTAL B LEX	<0.00397	U	0.00397		mg/Kg			09/01/22 12:44	1
	Method: 8015 NM - Diesel Range Orga	anics (DR	O) (GC)							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
[Method: 8015B NM - Diesel Range Org	ganics (D	RO) (GC)							

MDL Unit

Prepared

Analyzed

Result Qualifier

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		08/22/22 16:29	08/24/22 00:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/24/22 00:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/24/22 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				08/22/22 16:29	08/24/22 00:36	1
o-Terphenyl	102		70 - 130				08/22/22 16:29	08/24/22 00:36	1

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2210		24.9		mg/Kg			08/29/22 09:40	5

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9/1/2022

Lab Sample ID: 890-2784-56

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-69 (0-6')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 13:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 13:14	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 13:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:29	09/01/22 13:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 13:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:29	09/01/22 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				08/30/22 12:29	09/01/22 13:14	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/30/22 12:29	09/01/22 13:14	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	o Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1890		50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		08/22/22 16:29	08/23/22 22:07	1
Diesel Range Organics (Over C10-C28)	1890		50.0		mg/Kg		08/22/22 16:29	08/23/22 22:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 22:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				08/22/22 16:29	08/23/22 22:07	1
o-Terphenyl	97		70 - 130				08/22/22 16:29	08/23/22 22:07	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-70 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0400	U	0.0400		mg/Kg		08/30/22 12:29	09/01/22 14:35	20
Toluene	<0.0400	U	0.0400		mg/Kg		08/30/22 12:29	09/01/22 14:35	20
Ethylbenzene	<0.0400	U	0.0400		mg/Kg		08/30/22 12:29	09/01/22 14:35	20
m-Xylene & p-Xylene	<0.0800	U	0.0800		mg/Kg		08/30/22 12:29	09/01/22 14:35	20
o-Xylene	<0.0400	U	0.0400		mg/Kg		08/30/22 12:29	09/01/22 14:35	20
Xylenes, Total	<0.0800	U	0.0800		mg/Kg		08/30/22 12:29	09/01/22 14:35	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/30/22 12:29	09/01/22 14:35	20

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Lab Sample ID: 890-2784-57

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Matrix: Solid

Lab Sample ID: 890-2784-57

Analyzed

Lab Sample ID: 890-2784-58

Matrix: Solid

Prepared

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-70 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 4.5

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
Method. 002 1D - Volatile Organic Compounds	(OO) (Oolillillided)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92	70 - 130	08/30/22 12:29	09/01/22 14:35	20

Method: To	ntal RTFY.	Total BTEX	Calculation
mictilou. It	Jiai Di La	TOTAL DIEX	Odiculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0800	U	0.0800		mg/Kg		_	09/01/22 12:44	1

Method: 8015 NM - Diesel Range (Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1770	49.8	mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Range	e Organics (DRO) (GC)						

RL

MDL Unit

	moundar ou rob rum	
ı	Analyte	Result Qualifier

Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	08/22/22 16:29	08/23/22 22:29	1
Diesel Range Organics (Over C10-C28)	1770		49.8	mg/Kg	08/22/22 16:29	08/23/22 22:29	1
Gasoline Range Organics GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg	08/22/22 16:29	08/23/22 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	08/22/22 16:29	08/23/22 22:29	1
o-Terphenyl	89		70 - 130	08/22/22 16:29	08/23/22 22:29	1

Method: 300.0 - Anions, Ion	Chromatography - Soluble
	D 11 0 110

Analyte	Result	Qualifier	RL	MDL Ur	nit	D	Prepared	Analyzed	Dil Fac
Chloride	352		4.97	m	g/Kg		_	08/29/22 09:58	1

Client Sample ID: SW-71 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 13:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 13:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 13:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:29	09/01/22 13:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 13:34	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:29	09/01/22 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/30/22 12:29	09/01/22 13:34	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/30/22 12:29	09/01/22 13:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		mg/Kg				09/01/22 12:44	1

н	Made al. COAF NIM Diaga	D O! (DDO)	1/001
ı	Method: 8015 NM - Diese	Rande Ordanics (DRO)	1 ((=(.)
ı	Michiga. Colo IVIII Dicoc	range Organico (Bra	, , , , , ,

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			08/23/22 11:36	1

Eurofins Carlsbad

Dil Fac

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-71 (0-4.5')

Da

Sample Depth: 0 - 4.5

Client Sample ID: SW-71 (0-4.5')	Lab Sample ID: 890-2784-58
Date Collected: 08/18/22 00:00	Matrix: Solid
Date Received: 08/19/22 08:00	

Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		08/22/22 16:29	08/24/22 00:57	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/24/22 00:57	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/24/22 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				08/22/22 16:29	08/24/22 00:57	1
o-Terphenyl	98		70 - 130				08/22/22 16:29	08/24/22 00:57	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1460	-	24.9		mg/Kg			08/29/22 10:07	5

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

Matrix: Solid				Prep Type: Total/NA
_				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2784-1	BH-120 (8')	120	96	
890-2784-1 MS	BH-120 (8')	136 S1+	103	
890-2784-1 MSD	BH-120 (8')	136 S1+	106	
890-2784-2	BH-124 (8')	143 S1+	85	
890-2784-3	BH-132 (8')	115	91	
890-2784-4	BH-159 (8')	107	80	
890-2784-5	BH-162 (8')	121	89	
890-2784-6	BH-164 (8')	114	100	
890-2784-7	BH-166 (8')	115	90	
890-2784-8	BH-167 (8')	106	90	
890-2784-9	BH-168 (5')	120	94	
890-2784-10	BH-169 (5')	128	84	
890-2784-11	BH-170 (5')	130	87	
890-2784-12	BH-171 (5')	124	84	
890-2784-13	BH-172 (6')	124	80	
890-2784-14	BH-173 (6')	123	90	
890-2784-15	BH-174 (6')	130	81	
890-2784-16	BH-175 (4.5')	113	92	
890-2784-17	BH-176 (4.5')	116	91	
890-2784-18	BH-177 (4.5')	117	93	
890-2784-19	BH-178 (4.5')	117	88	
890-2784-20	BH-179 (4.5')	119	90	
890-2784-21	BH-180 (4.5')	94	106	
890-2784-21 MS	BH-180 (4.5')	97	105	
890-2784-21 MSD	BH-180 (4.5')	98	103	
890-2784-22	BH-181 (4.5')	90	105	
890-2784-23	BH-182 (4.5')	93	108	
890-2784-24	BH-183 (4.5')	91	108	
890-2784-25	BH-184 (4.5')	93	109	
890-2784-26	BH-185 (4.5')	95	110	
890-2784-27	BH-186 (4.5')	91	108	
890-2784-28	BH-187 (4.5')	93	107	
890-2784-29	BH-188 (4.5')	96	106	
890-2784-30	BH-189 (4.5')	88	109	
890-2784-31	SW-38 (4.5-13')	100	87	
890-2784-32	SW-42 (4.5-8')	89	106	
890-2784-33	SW-43 (6-8')	95	108	
890-2784-34	SW-44 (4.5-8')	95	97	
890-2784-35	SW-45 (0-8')	90	97	
890-2784-36	SW-46 (0-5')	103	99	
890-2784-37	SW-47 (0-5')	93	92	
890-2784-38	SW-48 (6-8')	99	97	
890-2784-39	SW-49 (4.5-6')	99	104	
890-2784-40	SW-53 (0-8')	95	100	
890-2784-41	SW-54 (0-4.5')	94	101	
890-2784-41 MS	SW-54 (0-4.5')	100	103	
890-2784-41 MSD	SW-54 (0-4.5')	94	98	
890-2784-42	SW-55 (4.5-8')	92	100	
890-2784-43	SW-56 (0-4.5')	91	102	
	/			

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2784-44	SW-57 (6-8')	88	104	
890-2784-45	SW-58 (6-8')	45 S1-	127	
890-2784-46	SW-59 (6-8')	91	99	
890-2784-47	SW-60 (0-13')	94	99	
890-2784-48	SW-61 (8-13')	94	100	
890-2784-49	SW-62 (8-13')	89	103	
890-2784-50	SW-63 (8-13')	102	101	
890-2784-51	SW-64 (8-10')	89	108	
890-2784-52	SW-65 (8-10')	94	105	
890-2784-53	SW-66 (8-10')	93	107	
890-2784-54	SW-67 (8-10')	91	105	
890-2784-55	SW-68 (0-6')	92	108	
890-2784-56	SW-69 (0-6')	96	101	
890-2784-57	SW-70 (0-4.5')	94	92	
890-2784-58	SW-71 (0-4.5')	93	110	
LCS 880-33358/1-A	Lab Control Sample	115	107	
LCS 880-33361/1-A	Lab Control Sample	92	103	
LCS 880-33362/1-A	Lab Control Sample	93	95	
LCSD 880-33358/2-A	Lab Control Sample Dup	111	107	
LCSD 880-33361/2-A	Lab Control Sample Dup	82	105	
LCSD 880-33362/2-A	Lab Control Sample Dup	90	98	
MB 880-33358/5-A	Method Blank	103	93	
MB 880-33361/5-A	Method Blank	79	118	
MB 880-33362/5-A	Method Blank	82	107	
MB 880-33411/8	Method Blank	96	94	

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)	
880-18428-A-1-C MS	Matrix Spike	96	85	
880-18428-A-1-D MSD	Matrix Spike Duplicate	84	75	
890-2784-1	BH-120 (8')	64 S1-	76	
890-2784-1 MS	BH-120 (8')	51 S1-	55 S1-	
890-2784-1 MSD	BH-120 (8')	52 S1-	56 S1-	
890-2784-2	BH-124 (8')	58 S1-	71	
890-2784-3	BH-132 (8')	67 S1-	80	
890-2784-4	BH-159 (8')	69 S1-	82	
890-2784-5	BH-162 (8')	68 S1-	82	
890-2784-6	BH-164 (8')	62 S1-	76	
890-2784-7	BH-166 (8')	59 S1-	71	
890-2784-8	BH-167 (8')	61 S1-	70	
890-2784-9	BH-168 (5')	60 S1-	71	
890-2784-10	BH-169 (5')	56 S1-	69 S1-	
890-2784-11	BH-170 (5')	57 S1-	66 S1-	

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	, , , , , , , , , , , , , , , , , , , ,
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-2784-12	BH-171 (5')	70	84	
90-2784-13	BH-172 (6')	70	84	
90-2784-14	BH-173 (6')	63 S1-	77	
90-2784-15	BH-174 (6')	64 S1-	76	
90-2784-16	BH-175 (4.5')	59 S1-	71	
90-2784-17	BH-176 (4.5')	58 S1-	69 S1-	
90-2784-18	BH-177 (4.5')	59 S1-	73	
90-2784-19	BH-178 (4.5')	60 S1-	72	
90-2784-20	BH-179 (4.5')	60 S1-	75	
90-2784-21	BH-180 (4.5')	117	114	
90-2784-21 MS	BH-180 (4.5')	109	89	
90-2784-21 MSD	BH-180 (4.5')	109	88	
90-2784-21 MSD				
	BH-181 (4.5')	114	110	
90-2784-23	BH-182 (4.5')	97	97	
90-2784-24	BH-183 (4.5')	93	92	
90-2784-25	BH-184 (4.5')	111	109	
90-2784-26	BH-185 (4.5')	116	113	
90-2784-27	BH-186 (4.5')	92	91	
90-2784-28	BH-187 (4.5')	97	97	
90-2784-29	BH-188 (4.5')	98	97	
90-2784-30	BH-189 (4.5')	95	93	
90-2784-31	SW-38 (4.5-13')	118	116	
90-2784-32	SW-42 (4.5-8')	119	113	
90-2784-33	SW-43 (6-8')	99	100	
90-2784-34	SW-44 (4.5-8')	115	113	
90-2784-35	SW-45 (0-8')	105	99	
90-2784-36	SW-46 (0-5')	115	113	
90-2784-37	SW-47 (0-5')	116	112	
90-2784-38	SW-48 (6-8')	99	98	
90-2784-39	SW-49 (4.5-6')	101	98	
90-2784-40	SW-53 (0-8')	109	106	
90-2784-41	SW-54 (0-4.5')	91	95	
90-2784-42	SW-55 (4.5-8')	74	76	
90-2784-43	SW-56 (0-4.5')	82	88	
90-2784-44	SW-57 (6-8')	93	100	
90-2784-45	SW-58 (6-8')	93	96	
90-2784-46	SW-59 (6-8')	114	115	
90-2784-47	SW-60 (0-13')	87	91	
90-2784-48	SW-61 (8-13')	97	88	
90-2784-49	SW-62 (8-13')	97	92	
90-2784-49 90-2784-50	SW-63 (8-13')	97	92 89	
90-2784-50 90-2784-51	, ,	104	99	
	SW-64 (8-10')			
90-2784-52	SW-65 (8-10')	96 106	86 06	
90-2784-53	SW-66 (8-10')	106	96	
90-2784-54	SW-67 (8-10')	99	89	
90-2784-55	SW-68 (0-6')	112	102	
90-2784-56	SW-69 (0-6')	104	97	
90-2784-57	SW-70 (0-4.5')	95	89	
90-2784-58	SW-71 (0-4.5')	110	98	

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea 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)	
890-2786-A-2-D MSD	Matrix Spike Duplicate	89	74	
LCS 880-32669/2-A	Lab Control Sample	73	84	
LCS 880-32713/2-A	Lab Control Sample	516 S1+	484 S1+	
LCS 880-32714/2-A	Lab Control Sample	521 S1+	535 S1+	
LCS 880-32774/2-A	Lab Control Sample	575 S1+	577 S1+	
LCSD 880-32669/3-A	Lab Control Sample Dup	74	86	
LCSD 880-32713/3-A	Lab Control Sample Dup	548 S1+	524 S1+	
LCSD 880-32714/3-A	Lab Control Sample Dup	568 S1+	565 S1+	
LCSD 880-32774/3-A	Lab Control Sample Dup	527 S1+	538 S1+	
MB 880-32669/1-A	Method Blank	64 S1-	79	
MB 880-32713/1-A	Method Blank	98	94	
MB 880-32714/1-A	Method Blank	96	96	
MB 880-32774/1-A	Method Blank	94	94	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: Tetra Tech, Inc. Job ID: 890-2784-1 SDG: Lea County NM Project/Site: Kaiser SWD

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33358/5-A

Lab Sample ID: LCS 880-33358/1-A

Lab Sample ID: LCSD 880-33358/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 33411

Analysis Batch: 33411

Matrix: Solid Analysis Batch: 33411 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33358

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	08/31/22 23:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	08/31/22 23:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	08/31/22 23:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:01	08/31/22 23:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	08/31/22 23:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:01	08/31/22 23:38	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/30/22 12	2:01 08/31/22 23:38	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/30/22 12	2:01 08/31/22 23:38	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33358

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.09998		mg/Kg		100	70 - 130	
0.100	0.09209		mg/Kg		92	70 - 130	
0.100	0.09252		mg/Kg		93	70 - 130	
0.200	0.1909		mg/Kg		95	70 - 130	
0.100	0.1112		mg/Kg		111	70 - 130	
	Added 0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.09998 0.100 0.09209 0.100 0.09252 0.200 0.1909	Added Result Qualifier 0.100 0.09998 0.100 0.09209 0.100 0.09252 0.200 0.1909	Added Result Qualifier Unit 0.100 0.09998 mg/Kg 0.100 0.09209 mg/Kg 0.100 0.09252 mg/Kg 0.200 0.1909 mg/Kg	Added Result Qualifier Unit D 0.100 0.09998 mg/Kg 0.100 0.09209 mg/Kg 0.100 0.09252 mg/Kg 0.200 0.1909 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.09998 mg/Kg 100 0.100 0.09209 mg/Kg 92 0.100 0.09252 mg/Kg 93 0.200 0.1909 mg/Kg 95	Added Result Qualifier Unit D %Rec Limits 0.100 0.09998 mg/Kg 100 70 - 130 0.100 0.09209 mg/Kg 92 70 - 130 0.100 0.09252 mg/Kg 93 70 - 130 0.200 0.1909 mg/Kg 95 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 33358

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09401		mg/Kg		94	70 - 130	6	35
Toluene	0.100	0.08558		mg/Kg		86	70 - 130	7	35
Ethylbenzene	0.100	0.08674		mg/Kg		87	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1790		mg/Kg		90	70 - 130	6	35
o-Xylene	0.100	0.1032		mg/Kg		103	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: 890-2784-1 MS

Matrix: Solid

Analysis Batch: 33411

Client Sample ID: BH-120 (8')

Prep Type: Total/NA

Prep Batch: 33358

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.101	0.09002		mg/Kg		89	70 - 130	
Toluene	<0.00198	U	0.101	0.08715		mg/Kg		87	70 - 130	

Prep Batch: 33358

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2784-1 MS Client Sample ID: BH-120 (8') Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 33411

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00198	U	0.101	0.09489		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	<0.00397	U	0.201	0.1923		mg/Kg		96	70 - 130	
o-Xylene	<0.00198	U	0.101	0.1183		mg/Kg		118	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	103		70 - 130		

Lab Sample ID: 890-2784-1 MSI	ס			Client Sample ID: BH-120 (8')
Matrix: Solid				Prep Type: Total/I	NA
Analysis Batch: 33411				Prep Batch: 333	58
	Sample Sample	Spike	MSD MSD	%Rec R	PD

Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.100 0.08882 Benzene <0.00198 U mg/Kg 89 70 - 130 35 Toluene 0.100 0.08598 86 70 - 130 35 <0.00198 U mg/Kg Ethylbenzene <0.00198 U 0.100 0.09412 mg/Kg 94 70 - 130 35 m-Xylene & p-Xylene <0.00397 U 0.200 0.1897 95 70 - 130 35 mg/Kg 0.100 o-Xylene <0.00198 U 0.1170 70 - 130 mg/Kg 117

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-33361/5-A

Matrix: Solid

Analysis Batch: 33465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33361

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 17:36	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	08/30/22 12:16	08/31/22 17:36	1
1,4-Difluorobenzene (Surr)	118		70 - 130	08/30/22 12:16	08/31/22 17:36	1

Lab Sample ID: LCS 880-33361/1-A

Matrix: Solid

Analysis Batch: 33465

Client Sample ID:	Lab Control Sample
	Prep Type: Total/NA

Prep Batch: 33361

•	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1051		mg/Kg		105	70 - 130
Toluene	0.100	0.1026		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09908		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1821		mg/Kg		91	70 - 130

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-33361/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 33465 Prep Batch: 33361

	Spike	LUS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	0.100	0.09507		mg/Kg		95	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-33361/2-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid** Prep Type: Total/NA Prep Batch: 33361

Analysis Batch: 33465

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1086		mg/Kg		109	70 - 130	3	35
Toluene	0.100	0.09563		mg/Kg		96	70 - 130	7	35
Ethylbenzene	0.100	0.08726		mg/Kg		87	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.1471		mg/Kg		74	70 - 130	21	35
o-Xylene	0.100	0.07842		mg/Kg		78	70 - 130	19	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-2784-21 MS **Client Sample ID: BH-180 (4.5')** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 33465

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.1081		mg/Kg		107	70 - 130	
Toluene	<0.00199	U	0.101	0.1066		mg/Kg		106	70 - 130	
Ethylbenzene	<0.00199	U	0.101	0.1017		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1863		mg/Kg		92	70 - 130	
o-Xylene	<0.00199	U	0.101	0.09769		mg/Kg		97	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-2784-21 MSD **Client Sample ID: BH-180 (4.5') Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 33/65

Analysis Batch: 33465									Prep	Batch:	33361
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.1083		mg/Kg		108	70 - 130	0	35
Toluene	<0.00199	U	0.100	0.1076		mg/Kg		107	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.100	0.1023		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1866		mg/Kg		93	70 - 130	0	35
o-Xylene	<0.00199	U	0.100	0.09828		mg/Kg		98	70 - 130	1	35

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Prep Batch: 33361

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2784-21 MSD

Matrix: Solid

Analysis Batch: 33465

Client Sample ID: BH-180 (4.5')

Prep Type: Total/NA

Prep Batch: 33361

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 98 70 - 130 1,4-Difluorobenzene (Surr) 103 70 - 130

Lab Sample ID: MB 880-33362/5-A

Matrix: Solid

Analysis Batch: 33465

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 33362

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 05:11	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82	70 - 130	08/30/22 12:29	09/01/22 05:11	1
1,4-Difluorobenzene (Surr)	107	70 - 130	08/30/22 12:29	09/01/22 05:11	1

Lab Sample ID: LCS 880-33362/1-A

Matrix: Solid

Analysis Batch: 33465

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33362

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08954		mg/Kg		90	70 - 130	
Toluene	0.100	0.09540		mg/Kg		95	70 - 130	
Ethylbenzene	0.100	0.09384		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1720		mg/Kg		86	70 - 130	
o-Xylene	0.100	0.09358		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: LCSD 880-33362/2-A

Matrix: Solid

Analysis Batch: 33465

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33362

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08443		mg/Kg		84	70 - 130	6	35
Toluene	0.100	0.08898		mg/Kg		89	70 - 130	7	35
Ethylbenzene	0.100	0.08828		mg/Kg		88	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1627		mg/Kg		81	70 - 130	6	35
o-Xylene	0.100	0.08712		mg/Kg		87	70 - 130	7	35

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 90 70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-33362/2-A

Matrix: Solid

Analysis Batch: 33465

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33362

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1,4-Difluorobenzene (Surr) 98 70 - 130

Client Sample ID: SW-54 (0-4.5')

Prep Type: Total/NA

Prep Batch: 33362

Lab Sample ID: 890-2784-41 MS **Matrix: Solid**

Analysis Batch: 33465

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.101	0.1030		mg/Kg		102	70 - 130	
Toluene	<0.00202	U	0.101	0.09919		mg/Kg		99	70 - 130	
Ethylbenzene	<0.00202	U	0.101	0.09015		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.201	0.1615		mg/Kg		80	70 - 130	
o-Xylene	<0.00202	U	0.101	0.08797		mg/Kg		87	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-2784-41 MSD Client Sample ID: SW-54 (0-4.5')

Matrix: Solid

Analysis Batch: 33465

Prep Type: Total/NA Prep Batch: 33362

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0998	0.09574		mg/Kg		96	70 - 130	7	35
Toluene	<0.00202	U	0.0998	0.09569		mg/Kg		96	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.0998	0.08913		mg/Kg		89	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1611		mg/Kg		81	70 - 130	0	35
o-Xylene	<0.00202	U	0.0998	0.08747		mg/Kg		88	70 - 130	1	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-33411/8 Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 33411

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			08/31/22 13:02	1
Toluene	<0.00200	U	0.00200		mg/Kg			08/31/22 13:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			08/31/22 13:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			08/31/22 13:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			08/31/22 13:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			08/31/22 13:02	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		08/31/22 13:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130		08/31/22 13:02	1

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Prep Type: Total/NA

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-32669/1-A

Matrix: Solid

Analysis Batch: 32586

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32669

	IND	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/22/22 21:31	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/22/22 21:31	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/22/22 21:31	1
	440	440							

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130	08/22/22 13:43	08/22/22 21:31	1
o-Terphenyl	79		70 - 130	08/22/22 13:43	08/22/22 21:31	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32669

LCS LCS Spike Added Result Qualifier Analyte Unit D %Rec Limits 1000 719.7 72 Gasoline Range Organics mg/Kg 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over 892.1 mg/Kg 89 70 - 130 C10-C28)

LCS LCS

l	Surrogate	%Recovery	Qualifier	Limits
	1-Chlorooctane	73		70 - 130
l	o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-32669/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCS 880-32669/2-A

Matrix: Solid

Analysis Batch: 32586

Analysis Batch: 32586

Prep Type: Total/NA

Prep Batch: 32669

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	724.7		mg/Kg		72	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	912.3		mg/Kg		91	70 - 130	2	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	74	70 - 130
o-Terphenyl	86	70 - 130

Lab Sample ID: 890-2784-1 MS Client Sample ID: BH-120 (8')

Matrix: Solid Prep Type: Total/NA Analysis Batch: 32586 Prep Batch: 32669

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1	999	522.3	F1	mg/Kg		50	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U F1	999	558.6	F1	mg/Kg		56	70 - 130	
C10-C28)										

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2784-1 MS

Matrix: Solid

Analysis Batch: 32586

Client Sample ID: BH-120 (8') Prep Type: Total/NA

Prep Batch: 32669

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 51 S1-70 - 130 o-Terphenyl 55 S1-70 - 130

Lab Sample ID: 890-2784-1 MSD Client Sample ID: BH-120 (8')

Analysis Batch: 32586

Matrix: Solid Prep Type: Total/NA

Prep Batch: 32669

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U F1	998	552.9	F1	mg/Kg		53	70 - 130	6	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U F1	998	578.2	F1	mg/Kg		58	70 - 130	3	20
C10-C28)											

MSD MSD Surrogate %Recovery Qualifier Limits 52 S1-70 - 130 1-Chlorooctane 56 S1-70 - 130 o-Terphenyl

MB MB

Result Qualifier

Lab Sample ID: MB 880-32713/1-A Client Sample ID: Method Blank

RL

Matrix: Solid

(GRO)-C6-C10

Analyte

Analysis Batch: 32730

Gasoline Range Organics

Prep Type: Total/NA

Analyzed

Prep Batch: 32713

Dil Fac

<50.0 U 50.0 mg/Kg 08/22/22 16:29 08/23/22 15:45 50.0

D

Prepared

MDL Unit

Diesel Range Organics (Over <50.0 U mg/Kg 08/22/22 16:29 08/23/22 15:45 C10-C28) 50.0 OII Range Organics (Over C28-C36) <50.0 U 08/22/22 16:29 08/23/22 15:45 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 08/22/22 16:29 98 70 - 130 08/23/22 15:45 94 70 - 130 08/22/22 16:29 o-Terphenyl 08/23/22 15:45

Lab Sample ID: LCS 880-32713/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 32730 Prep Batch: 32713

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits D 1000 Gasoline Range Organics 819.0 82 70 - 130 mg/Kg (GRO)-C6-C10 1000 925.9 93 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	516	S1+	70 - 130
o-Terphenvl	484	S1+	70 - 130

QC Sample Results

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-32713/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 32730 Prep Batch: 32713

Spike LCSD LCSD RPD Added Limit Analyte Result Qualifier Unit %Rec Limits RPD Gasoline Range Organics 1000 1054 *1 mg/Kg 105 70 - 130 25 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1016 70 - 130 mg/Kg 102 9 20

C10-C28)

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 548 S1+ o-Terphenyl 524 S1+ 70 - 130

Lab Sample ID: 890-2786-A-2-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 32730

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	770.6		mg/Kg		76	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	934.1		mg/Kg		91	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 96 70 - 130 o-Terphenyl 74 70 - 130

Lab Sample ID: 890-2786-A-2-D MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 32730									Prep	Batch:	32713
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	789.4		mg/Kg		78	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	953.1		mg/Kg		93	70 - 130	2	20

MSD MSD Qualifier Limits Surrogate %Recovery 1-Chlorooctane 89 70 - 130 74 70 - 130 o-Terphenyl

Lab Sample ID: MB 880-32714/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 32806

MB MB MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 08/22/22 16:33 08/24/22 11:55 mg/Kg (GRO)-C6-C10 50.0 08/22/22 16:33 08/24/22 11:55 Diesel Range Organics (Over <50.0 U mg/Kg C10-C28) 08/22/22 16:33 <50.0 U 50.0 OII Range Organics (Over C28-C36) mg/Kg 08/24/22 11:55

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Prep Type: Total/NA

Prep Batch: 32713

Prep Type: Total/NA Prep Batch: 32714

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-32714/1-A

Matrix: Solid

Analysis Batch: 32806

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32714

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyzed	I Dil Fac
	1-Chlorooctane	96		70 - 130	08/22/22 1	6:33 08/24/22 11	:55 1
l	o-Terphenyl	96		70 - 130	08/22/22 1	6:33 08/24/22 11	:55 1

Lab Sample ID: LCS 880-32714/2-A **Client Sample ID: Lab Control Sample**

Analysis Batch: 32806

Matrix: Solid Prep Type: Total/NA Prep Batch: 32714

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1006 101 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1017 mg/Kg 102 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	521	S1+	70 - 130
o-Terphenyl	535	S1+	70 - 130

Lab Sample ID: LCSD 880-32714/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 32806 Prep Batch: 32714 Spike LCSD LCSD

Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics 1000 1165 mg/Kg 116 70 - 130 15 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1078 mg/Kg 108 70 - 130 6 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	568	S1+	70 - 130
o-Terphenyl	565	S1+	70 - 130

Lab Sample ID: 890-2784-21 MS Client Sample ID: BH-180 (4.5')

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 32806 Prep Batch: 32714

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9	U	999	1194		mg/Kg		117	70 - 130		_
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	1048		mg/Kg		105	70 - 130		
C10 C28)											

C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	89		70 - 130

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2784-21 MSD

Analysis Batch: 32806

Matrix: Solid

Client Sample ID: BH-180 (4.5') Prep Type: Total/NA

Prep Batch: 32714

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte babbA Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 998 1033 mg/Kg 101 70 - 130 14 (GRO)-C6-C10 998 Diesel Range Organics (Over <49.9 U 1050 mg/Kg 105 70 - 130 0

20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	88		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32774

Lab Sample ID: MB 880-32774/1-A

Matrix: Solid

Analysis Batch: 32808

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 16:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 16:17	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 16:17	1

MB MB Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 1-Chlorooctane 94 70 - 130 08/23/22 10:46 08/24/22 16:17 08/23/22 10:46 o-Terphenyl 94 70 - 130 08/24/22 16:17

Lab Sample ID: LCS 880-32774/2-A

Matrix: Solid

Analysis Batch: 32808

Client Sample ID: Lab Control Sample
Pren Type: Total/NA

Prep Batch: 32774

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1065	-	mg/Kg		106	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1056		mg/Kg		106	70 - 130	
C10-C28)								

LCS LCS %Recovery Qualifier

1-Chlorooctane 575 S1+ 70 - 130 577 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: LCSD 880-32774/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Limits

Matrix: Solid Analysis Batch: 32808

Diesel Range Organics (Over

RPD LCSD LCSD Spike %Rec Added Result Qualifier Limit Analyte Unit %Rec Limits Gasoline Range Organics 1000 1046 mg/Kg 105 70 - 130 2 20 (GRO)-C6-C10

982.3

mg/Kg

98

70 - 130

1000

C10-C28)

Surrogate

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Prep Batch: 32774

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-32774/3-A

Matrix: Solid

Analysis Batch: 32808

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 32774

LCSD LCSD %Recovery Qualifier Limits

Surrogate 1-Chlorooctane 527 S1+ 70 - 130 o-Terphenyl 538 S1+ 70 - 130

Lab Sample ID: 880-18428-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 32808** Prep Batch: 32774

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 U 999 1043 101 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 972.4 <49.9 U mg/Kg 97 70 - 130C10-C28)

MS MS %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 96 85 70 - 130 o-Terphenyl

Lab Sample ID: 880-18428-A-1-D MSD

Matrix: Solid

Analysis Batch: 32808

Prep Batch: 32774 MSD MSD Sample Sample Spike RPD Added Result Qualifier Analyte Result Qualifier Unit %Rec I imits RPD Limit D Gasoline Range Organics <49.9 U 998 953.0 mg/Kg 92 70 - 130 9 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 885.0 mg/Kg 89 70 - 130 20

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 84 70 - 130 o-Terphenyl 75

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32582/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33167

MB MB

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 08/29/22 02:22

Lab Sample ID: LCS 880-32582/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

248.2

mg/Kg

Analysis Batch: 33167

Chloride

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit Limits

250

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90 - 110

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-32582/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33167

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Chloride 250 249.1 mg/Kg 100 90 - 110 20

Lab Sample ID: 890-2784-4 MS Client Sample ID: BH-159 (8') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33167

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1010		1250	2342		mg/Kg		107	90 - 110	

Lab Sample ID: 890-2784-4 MSD Client Sample ID: BH-159 (8') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33167

MSD MSD %Rec Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits

RPD Limit Chloride 1250 2338 1010 mg/Kg 106 90 - 110

Lab Sample ID: MB 880-32583/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33168

мв мв

Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U 08/29/22 06:57 mg/Kg

Lab Sample ID: LCS 880-32583/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33168

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 249.3 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-32583/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33168

Spike LCSD LCSD %Rec RPD Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 249.3 mg/Kg 100 90 - 110

Lab Sample ID: 890-2784-14 MS Client Sample ID: BH-173 (6')

Matrix: Solid

Analysis Batch: 33168

MS MS %Rec Sample Sample Spike Added Result Qualifier Result Qualifier Limits Analyte Unit D %Rec Chloride 329 248 557.9 mg/Kg 92 90 - 110

Lab Sample ID: 890-2784-14 MSD Client Sample ID: BH-173 (6')

Matrix: Solid

Analysis Batch: 33168

Sample Spike MSD MSD %Rec RPD Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 329 248 563.7 mg/Kg 95 90 - 110 20

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RPD

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2784-24 MS Client Sample ID: BH-183 (4.5') **Matrix: Solid**

Analysis Batch: 33168

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1050		249	1247	4	mg/Kg		78	90 - 110	

Lab Sample ID: 890-2784-24 MSD Client Sample ID: BH-183 (4.5') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33168

		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
l	Chloride	1050		249	1247	4	mg/Kg		78	90 - 110	0	20

Lab Sample ID: MB 880-32584/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33169

мв мв Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 08/29/22 14:25 mg/Kg

Lab Sample ID: LCS 880-32584/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33169

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	251.5		mg/Kg	_	101	90 - 110	

Lab Sample ID: LCSD 880-32584/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33169

	Spike	LUGD	LUGD				/ortec		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	252.0		mg/Kg		101	90 - 110	0	20	

Lab Sample ID: 890-2784-34 MS **Client Sample ID: SW-44 (4.5-8') Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33169

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	955	F2 F1	252	1151	F1	mg/Kg		78	90 - 110	

Lab Sample ID: 890-2784-34 MSD Client Sample ID: SW-44 (4.5-8')

Matrix: Solid

Analysis Batch: 33169

, , , , , , , , , , , , , , , , , , , ,	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	955	F2 F1	252	1151	F1	mg/Kg		78	90 - 110	0	20	

Lab Sample ID: 890-2784-44 MS Client Sample ID: SW-57 (6-8')

Matrix: Solid

Analysis Batch: 33169											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	65.5		250	323.5		mg/Kg		103	90 - 110		_

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Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: SW-57 (6-8')

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Client Sample ID: SW-67 (8-10')

Client Sample ID: SW-67 (8-10')

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2784-44 MSD

Matrix: Solid

Analysis Batch: 33169

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	65.5		250	322.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-32585/1-A

Matrix: Solid

Analysis Batch: 33170

MB MB

MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 08/29/22 08:44

Lab Sample ID: LCS 880-32585/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33170

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit Limits Chloride 250 250.5 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-32585/3-A

Matrix: Solid

Analysis Batch: 33170

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	248.0		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-2784-54 MS

Matrix: Solid

Analysis Batch: 33170

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	215		252	478.7		mg/Kg		105	90 - 110	

Lab Sample ID: 890-2784-54 MSD

Matrix: Solid

Analysis Batch: 33170

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	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	215		252	486.1		mg/Kg		108	90 - 110	2	20	

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 33358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2784-1	BH-120 (8')	Total/NA	Solid	5035	
890-2784-2	BH-124 (8')	Total/NA	Solid	5035	
890-2784-3	BH-132 (8')	Total/NA	Solid	5035	
890-2784-4	BH-159 (8')	Total/NA	Solid	5035	
890-2784-5	BH-162 (8')	Total/NA	Solid	5035	
890-2784-6	BH-164 (8')	Total/NA	Solid	5035	
890-2784-7	BH-166 (8')	Total/NA	Solid	5035	
890-2784-8	BH-167 (8')	Total/NA	Solid	5035	
890-2784-9	BH-168 (5')	Total/NA	Solid	5035	
890-2784-10	BH-169 (5')	Total/NA	Solid	5035	
890-2784-11	BH-170 (5')	Total/NA	Solid	5035	
890-2784-12	BH-171 (5')	Total/NA	Solid	5035	
890-2784-13	BH-172 (6')	Total/NA	Solid	5035	
890-2784-14	BH-173 (6')	Total/NA	Solid	5035	
890-2784-15	BH-174 (6')	Total/NA	Solid	5035	
890-2784-16	BH-175 (4.5')	Total/NA	Solid	5035	
890-2784-17	BH-176 (4.5')	Total/NA	Solid	5035	
890-2784-18	BH-177 (4.5')	Total/NA	Solid	5035	
890-2784-19	BH-178 (4.5')	Total/NA	Solid	5035	
890-2784-20	BH-179 (4.5')	Total/NA	Solid	5035	
MB 880-33358/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33358/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33358/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2784-1 MS	BH-120 (8')	Total/NA	Solid	5035	
890-2784-1 MSD	BH-120 (8')	Total/NA	Solid	5035	

Prep Batch: 33361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2784-21	BH-180 (4.5')	Total/NA	Solid	5035	
890-2784-22	BH-181 (4.5')	Total/NA	Solid	5035	
890-2784-23	BH-182 (4.5')	Total/NA	Solid	5035	
890-2784-24	BH-183 (4.5')	Total/NA	Solid	5035	
890-2784-25	BH-184 (4.5')	Total/NA	Solid	5035	
890-2784-26	BH-185 (4.5')	Total/NA	Solid	5035	
890-2784-27	BH-186 (4.5')	Total/NA	Solid	5035	
890-2784-28	BH-187 (4.5')	Total/NA	Solid	5035	
890-2784-29	BH-188 (4.5')	Total/NA	Solid	5035	
390-2784-30	BH-189 (4.5')	Total/NA	Solid	5035	
390-2784-31	SW-38 (4.5-13')	Total/NA	Solid	5035	
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	5035	
890-2784-33	SW-43 (6-8')	Total/NA	Solid	5035	
890-2784-34	SW-44 (4.5-8')	Total/NA	Solid	5035	
890-2784-35	SW-45 (0-8')	Total/NA	Solid	5035	
890-2784-36	SW-46 (0-5')	Total/NA	Solid	5035	
890-2784-37	SW-47 (0-5')	Total/NA	Solid	5035	
890-2784-38	SW-48 (6-8')	Total/NA	Solid	5035	
890-2784-39	SW-49 (4.5-6')	Total/NA	Solid	5035	
890-2784-40	SW-53 (0-8')	Total/NA	Solid	5035	
MB 880-33361/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33361/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33361/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 33361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-21 MS	BH-180 (4.5')	Total/NA	Solid	5035	
890-2784-21 MSD	BH-180 (4.5')	Total/NA	Solid	5035	

Prep Batch: 33362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	5035	
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	5035	
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	5035	
890-2784-44	SW-57 (6-8')	Total/NA	Solid	5035	
890-2784-45	SW-58 (6-8')	Total/NA	Solid	5035	
890-2784-46	SW-59 (6-8')	Total/NA	Solid	5035	
890-2784-47	SW-60 (0-13')	Total/NA	Solid	5035	
890-2784-48	SW-61 (8-13')	Total/NA	Solid	5035	
890-2784-49	SW-62 (8-13')	Total/NA	Solid	5035	
890-2784-50	SW-63 (8-13')	Total/NA	Solid	5035	
890-2784-51	SW-64 (8-10')	Total/NA	Solid	5035	
890-2784-52	SW-65 (8-10')	Total/NA	Solid	5035	
890-2784-53	SW-66 (8-10')	Total/NA	Solid	5035	
890-2784-54	SW-67 (8-10')	Total/NA	Solid	5035	
890-2784-55	SW-68 (0-6')	Total/NA	Solid	5035	
890-2784-56	SW-69 (0-6')	Total/NA	Solid	5035	
890-2784-57	SW-70 (0-4.5')	Total/NA	Solid	5035	
890-2784-58	SW-71 (0-4.5')	Total/NA	Solid	5035	
MB 880-33362/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33362/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33362/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2784-41 MS	SW-54 (0-4.5')	Total/NA	Solid	5035	
890-2784-41 MSD	SW-54 (0-4.5')	Total/NA	Solid	5035	

Analysis Batch: 33411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-1	BH-120 (8')	Total/NA	Solid	8021B	33358
890-2784-2	BH-124 (8')	Total/NA	Solid	8021B	33358
890-2784-3	BH-132 (8')	Total/NA	Solid	8021B	33358
890-2784-4	BH-159 (8')	Total/NA	Solid	8021B	33358
890-2784-5	BH-162 (8')	Total/NA	Solid	8021B	33358
890-2784-6	BH-164 (8')	Total/NA	Solid	8021B	33358
890-2784-7	BH-166 (8')	Total/NA	Solid	8021B	33358
890-2784-8	BH-167 (8')	Total/NA	Solid	8021B	33358
890-2784-9	BH-168 (5')	Total/NA	Solid	8021B	33358
890-2784-10	BH-169 (5')	Total/NA	Solid	8021B	33358
890-2784-11	BH-170 (5')	Total/NA	Solid	8021B	33358
890-2784-12	BH-171 (5')	Total/NA	Solid	8021B	33358
890-2784-13	BH-172 (6')	Total/NA	Solid	8021B	33358
890-2784-14	BH-173 (6')	Total/NA	Solid	8021B	33358
890-2784-15	BH-174 (6')	Total/NA	Solid	8021B	33358
890-2784-16	BH-175 (4.5')	Total/NA	Solid	8021B	33358
890-2784-17	BH-176 (4.5')	Total/NA	Solid	8021B	33358
890-2784-18	BH-177 (4.5')	Total/NA	Solid	8021B	33358
890-2784-19	BH-178 (4.5')	Total/NA	Solid	8021B	33358
890-2784-20	BH-179 (4.5')	Total/NA	Solid	8021B	33358

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 33411 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33358/5-A	Method Blank	Total/NA	Solid	8021B	33358
MB 880-33411/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-33358/1-A	Lab Control Sample	Total/NA	Solid	8021B	33358
LCSD 880-33358/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33358
890-2784-1 MS	BH-120 (8')	Total/NA	Solid	8021B	33358
890-2784-1 MSD	BH-120 (8')	Total/NA	Solid	8021B	33358

Analysis Batch: 33465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
890-2784-21	BH-180 (4.5')	Total/NA	Solid	8021B	3336
390-2784-22	BH-181 (4.5')	Total/NA	Solid	8021B	3336
890-2784-23	BH-182 (4.5')	Total/NA	Solid	8021B	3336
890-2784-24	BH-183 (4.5')	Total/NA	Solid	8021B	3336
890-2784-25	BH-184 (4.5')	Total/NA	Solid	8021B	3336
890-2784-26	BH-185 (4.5')	Total/NA	Solid	8021B	3336
890-2784-27	BH-186 (4.5')	Total/NA	Solid	8021B	3336
890-2784-28	BH-187 (4.5')	Total/NA	Solid	8021B	3336
890-2784-29	BH-188 (4.5')	Total/NA	Solid	8021B	3336
890-2784-30	BH-189 (4.5')	Total/NA	Solid	8021B	3336
890-2784-31	SW-38 (4.5-13')	Total/NA	Solid	8021B	3336
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	8021B	3336
890-2784-33	SW-43 (6-8')	Total/NA	Solid	8021B	3336
890-2784-34	SW-44 (4.5-8')	Total/NA	Solid	8021B	3336
890-2784-35	SW-45 (0-8')	Total/NA	Solid	8021B	3336
890-2784-36	SW-46 (0-5')	Total/NA	Solid	8021B	3336
890-2784-37	SW-47 (0-5')	Total/NA	Solid	8021B	3336
890-2784-38	SW-48 (6-8')	Total/NA	Solid	8021B	3336
890-2784-39	SW-49 (4.5-6')	Total/NA	Solid	8021B	3336
890-2784-40	SW-53 (0-8')	Total/NA	Solid	8021B	3336
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	8021B	3336
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	8021B	3336
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	8021B	3336
890-2784-44	SW-57 (6-8')	Total/NA	Solid	8021B	3336
890-2784-45	SW-58 (6-8')	Total/NA	Solid	8021B	3336
890-2784-46	SW-59 (6-8')	Total/NA	Solid	8021B	3336
890-2784-47	SW-60 (0-13')	Total/NA	Solid	8021B	3336
890-2784-48	SW-61 (8-13')	Total/NA	Solid	8021B	3336
890-2784-49	SW-62 (8-13')	Total/NA	Solid	8021B	3336
890-2784-50	SW-63 (8-13')	Total/NA	Solid	8021B	3336
890-2784-51	SW-64 (8-10')	Total/NA	Solid	8021B	3336
890-2784-52	SW-65 (8-10')	Total/NA	Solid	8021B	3336
890-2784-53	SW-66 (8-10')	Total/NA	Solid	8021B	3336
890-2784-54	SW-67 (8-10')	Total/NA	Solid	8021B	3336
890-2784-55	SW-68 (0-6')	Total/NA	Solid	8021B	3336
890-2784-56	SW-69 (0-6')	Total/NA	Solid	8021B	3336
890-2784-57	SW-70 (0-4.5')	Total/NA	Solid	8021B	3336
890-2784-58	SW-71 (0-4.5')	Total/NA	Solid	8021B	3336
MB 880-33361/5-A	Method Blank	Total/NA	Solid	8021B	3336
MB 880-33362/5-A	Method Blank	Total/NA	Solid	8021B	3336
LCS 880-33361/1-A	Lab Control Sample	Total/NA	Solid	8021B	3336
LCS 880-33362/1-A	Lab Control Sample	Total/NA	Solid	8021B	3336

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 33465 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-33361/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33361
LCSD 880-33362/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33362
890-2784-21 MS	BH-180 (4.5')	Total/NA	Solid	8021B	33361
890-2784-21 MSD	BH-180 (4.5')	Total/NA	Solid	8021B	33361
890-2784-41 MS	SW-54 (0-4.5')	Total/NA	Solid	8021B	33362
890-2784-41 MSD	SW-54 (0-4.5')	Total/NA	Solid	8021B	33362

Analysis Batch: 33551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
890-2784-1	BH-120 (8')	Total/NA	Solid	Total BTEX	
890-2784-2	BH-124 (8')	Total/NA	Solid	Total BTEX	
890-2784-3	BH-132 (8')	Total/NA	Solid	Total BTEX	
890-2784-4	BH-159 (8')	Total/NA	Solid	Total BTEX	
890-2784-5	BH-162 (8')	Total/NA	Solid	Total BTEX	
890-2784-6	BH-164 (8')	Total/NA	Solid	Total BTEX	
890-2784-7	BH-166 (8')	Total/NA	Solid	Total BTEX	
890-2784-8	BH-167 (8')	Total/NA	Solid	Total BTEX	
890-2784-9	BH-168 (5')	Total/NA	Solid	Total BTEX	
890-2784-10	BH-169 (5')	Total/NA	Solid	Total BTEX	
890-2784-11	BH-170 (5')	Total/NA	Solid	Total BTEX	
890-2784-12	BH-171 (5')	Total/NA	Solid	Total BTEX	
890-2784-13	BH-172 (6')	Total/NA	Solid	Total BTEX	
890-2784-14	BH-173 (6')	Total/NA	Solid	Total BTEX	
890-2784-15	BH-174 (6')	Total/NA	Solid	Total BTEX	
890-2784-16	BH-175 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-17	BH-176 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-18	BH-177 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-19	BH-178 (4.5')	Total/NA	Solid	Total BTEX	
390-2784-20	BH-179 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-21	BH-180 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-22	BH-181 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-23	BH-182 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-24	BH-183 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-25	BH-184 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-26	BH-185 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-27	BH-186 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-28	BH-187 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-29	BH-188 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-30	BH-189 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-31	SW-38 (4.5-13')	Total/NA	Solid	Total BTEX	
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	Total BTEX	
890-2784-33	SW-43 (6-8')	Total/NA	Solid	Total BTEX	
890-2784-34	SW-44 (4.5-8')	Total/NA	Solid	Total BTEX	
890-2784-35	SW-45 (0-8')	Total/NA	Solid	Total BTEX	
890-2784-36	SW-46 (0-5')	Total/NA	Solid	Total BTEX	
890-2784-37	SW-47 (0-5')	Total/NA	Solid	Total BTEX	
890-2784-38	SW-48 (6-8')	Total/NA	Solid	Total BTEX	
890-2784-39	SW-49 (4.5-6')	Total/NA	Solid	Total BTEX	
890-2784-40	SW-53 (0-8')	Total/NA	Solid	Total BTEX	
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	Total BTEX	
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	Total BTEX	

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Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 33551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	Total BTEX	
890-2784-44	SW-57 (6-8')	Total/NA	Solid	Total BTEX	
890-2784-45	SW-58 (6-8')	Total/NA	Solid	Total BTEX	
890-2784-46	SW-59 (6-8')	Total/NA	Solid	Total BTEX	
890-2784-47	SW-60 (0-13')	Total/NA	Solid	Total BTEX	
890-2784-48	SW-61 (8-13')	Total/NA	Solid	Total BTEX	
890-2784-49	SW-62 (8-13')	Total/NA	Solid	Total BTEX	
890-2784-50	SW-63 (8-13')	Total/NA	Solid	Total BTEX	
890-2784-51	SW-64 (8-10')	Total/NA	Solid	Total BTEX	
890-2784-52	SW-65 (8-10')	Total/NA	Solid	Total BTEX	
890-2784-53	SW-66 (8-10')	Total/NA	Solid	Total BTEX	
890-2784-54	SW-67 (8-10')	Total/NA	Solid	Total BTEX	
890-2784-55	SW-68 (0-6')	Total/NA	Solid	Total BTEX	
890-2784-56	SW-69 (0-6')	Total/NA	Solid	Total BTEX	
890-2784-57	SW-70 (0-4.5')	Total/NA	Solid	Total BTEX	
890-2784-58	SW-71 (0-4.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 32586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-1	BH-120 (8')	Total/NA	Solid	8015B NM	32669
890-2784-2	BH-124 (8')	Total/NA	Solid	8015B NM	32669
890-2784-3	BH-132 (8')	Total/NA	Solid	8015B NM	32669
890-2784-4	BH-159 (8')	Total/NA	Solid	8015B NM	32669
890-2784-5	BH-162 (8')	Total/NA	Solid	8015B NM	32669
890-2784-6	BH-164 (8')	Total/NA	Solid	8015B NM	32669
890-2784-7	BH-166 (8')	Total/NA	Solid	8015B NM	32669
890-2784-8	BH-167 (8')	Total/NA	Solid	8015B NM	32669
890-2784-9	BH-168 (5')	Total/NA	Solid	8015B NM	32669
890-2784-10	BH-169 (5')	Total/NA	Solid	8015B NM	32669
890-2784-11	BH-170 (5')	Total/NA	Solid	8015B NM	32669
890-2784-12	BH-171 (5')	Total/NA	Solid	8015B NM	32669
890-2784-13	BH-172 (6')	Total/NA	Solid	8015B NM	32669
890-2784-14	BH-173 (6')	Total/NA	Solid	8015B NM	32669
890-2784-15	BH-174 (6')	Total/NA	Solid	8015B NM	32669
890-2784-16	BH-175 (4.5')	Total/NA	Solid	8015B NM	32669
890-2784-17	BH-176 (4.5')	Total/NA	Solid	8015B NM	32669
890-2784-18	BH-177 (4.5')	Total/NA	Solid	8015B NM	32669
890-2784-19	BH-178 (4.5')	Total/NA	Solid	8015B NM	32669
890-2784-20	BH-179 (4.5')	Total/NA	Solid	8015B NM	32669
MB 880-32669/1-A	Method Blank	Total/NA	Solid	8015B NM	32669
LCS 880-32669/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32669
LCSD 880-32669/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32669
890-2784-1 MS	BH-120 (8')	Total/NA	Solid	8015B NM	32669
890-2784-1 MSD	BH-120 (8')	Total/NA	Solid	8015B NM	32669

Prep Batch: 32669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-1	BH-120 (8')	Total/NA	Solid	8015NM Prep	
890-2784-2	BH-124 (8')	Total/NA	Solid	8015NM Prep	

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 32669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-3	BH-132 (8')	Total/NA	Solid	8015NM Prep	
890-2784-4	BH-159 (8')	Total/NA	Solid	8015NM Prep	
890-2784-5	BH-162 (8')	Total/NA	Solid	8015NM Prep	
890-2784-6	BH-164 (8')	Total/NA	Solid	8015NM Prep	
890-2784-7	BH-166 (8')	Total/NA	Solid	8015NM Prep	
890-2784-8	BH-167 (8')	Total/NA	Solid	8015NM Prep	
890-2784-9	BH-168 (5')	Total/NA	Solid	8015NM Prep	
890-2784-10	BH-169 (5')	Total/NA	Solid	8015NM Prep	
890-2784-11	BH-170 (5')	Total/NA	Solid	8015NM Prep	
890-2784-12	BH-171 (5')	Total/NA	Solid	8015NM Prep	
890-2784-13	BH-172 (6')	Total/NA	Solid	8015NM Prep	
890-2784-14	BH-173 (6')	Total/NA	Solid	8015NM Prep	
890-2784-15	BH-174 (6')	Total/NA	Solid	8015NM Prep	
890-2784-16	BH-175 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-17	BH-176 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-18	BH-177 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-19	BH-178 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-20	BH-179 (4.5')	Total/NA	Solid	8015NM Prep	
MB 880-32669/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32669/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32669/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2784-1 MS	BH-120 (8')	Total/NA	Solid	8015NM Prep	
890-2784-1 MSD	BH-120 (8')	Total/NA	Solid	8015NM Prep	

Prep Batch: 32713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-48	SW-61 (8-13')	Total/NA	Solid	8015NM Prep	
890-2784-49	SW-62 (8-13')	Total/NA	Solid	8015NM Prep	
890-2784-50	SW-63 (8-13')	Total/NA	Solid	8015NM Prep	
890-2784-51	SW-64 (8-10')	Total/NA	Solid	8015NM Prep	
890-2784-52	SW-65 (8-10')	Total/NA	Solid	8015NM Prep	
890-2784-53	SW-66 (8-10')	Total/NA	Solid	8015NM Prep	
890-2784-54	SW-67 (8-10')	Total/NA	Solid	8015NM Prep	
890-2784-55	SW-68 (0-6')	Total/NA	Solid	8015NM Prep	
890-2784-56	SW-69 (0-6')	Total/NA	Solid	8015NM Prep	
890-2784-57	SW-70 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-2784-58	SW-71 (0-4.5')	Total/NA	Solid	8015NM Prep	
MB 880-32713/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32713/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32713/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2786-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2786-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 32714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-21	BH-180 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-22	BH-181 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-23	BH-182 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-24	BH-183 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-25	BH-184 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-26	BH-185 (4.5')	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 32714 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-27	BH-186 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-28	BH-187 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-29	BH-188 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-30	BH-189 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-31	SW-38 (4.5-13')	Total/NA	Solid	8015NM Prep	
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	8015NM Prep	
890-2784-33	SW-43 (6-8')	Total/NA	Solid	8015NM Prep	
890-2784-34	SW-44 (4.5-8')	Total/NA	Solid	8015NM Prep	
890-2784-35	SW-45 (0-8')	Total/NA	Solid	8015NM Prep	
890-2784-36	SW-46 (0-5')	Total/NA	Solid	8015NM Prep	
890-2784-37	SW-47 (0-5')	Total/NA	Solid	8015NM Prep	
890-2784-38	SW-48 (6-8')	Total/NA	Solid	8015NM Prep	
890-2784-39	SW-49 (4.5-6')	Total/NA	Solid	8015NM Prep	
890-2784-40	SW-53 (0-8')	Total/NA	Solid	8015NM Prep	
MB 880-32714/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32714/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32714/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2784-21 MS	BH-180 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-21 MSD	BH-180 (4.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-48	SW-61 (8-13')	Total/NA	Solid	8015B NM	32713
890-2784-49	SW-62 (8-13')	Total/NA	Solid	8015B NM	32713
890-2784-50	SW-63 (8-13')	Total/NA	Solid	8015B NM	32713
890-2784-51	SW-64 (8-10')	Total/NA	Solid	8015B NM	32713
890-2784-52	SW-65 (8-10')	Total/NA	Solid	8015B NM	32713
890-2784-53	SW-66 (8-10')	Total/NA	Solid	8015B NM	32713
890-2784-54	SW-67 (8-10')	Total/NA	Solid	8015B NM	32713
890-2784-55	SW-68 (0-6')	Total/NA	Solid	8015B NM	32713
890-2784-56	SW-69 (0-6')	Total/NA	Solid	8015B NM	32713
890-2784-57	SW-70 (0-4.5')	Total/NA	Solid	8015B NM	32713
890-2784-58	SW-71 (0-4.5')	Total/NA	Solid	8015B NM	32713
MB 880-32713/1-A	Method Blank	Total/NA	Solid	8015B NM	32713
LCS 880-32713/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32713
LCSD 880-32713/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32713
890-2786-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	32713
890-2786-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32713

Prep Batch: 32774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	8015NM Prep	
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-2784-44	SW-57 (6-8')	Total/NA	Solid	8015NM Prep	
890-2784-45	SW-58 (6-8')	Total/NA	Solid	8015NM Prep	
890-2784-46	SW-59 (6-8')	Total/NA	Solid	8015NM Prep	
890-2784-47	SW-60 (0-13')	Total/NA	Solid	8015NM Prep	
MB 880-32774/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32774/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32774/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 32774 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18428-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-18428-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
890-2784-1	BH-120 (8')	Total/NA	Solid	8015 NM	
890-2784-2	BH-124 (8')	Total/NA	Solid	8015 NM	
890-2784-3	BH-132 (8')	Total/NA	Solid	8015 NM	
890-2784-4	BH-159 (8')	Total/NA	Solid	8015 NM	
890-2784-5	BH-162 (8')	Total/NA	Solid	8015 NM	
890-2784-6	BH-164 (8')	Total/NA	Solid	8015 NM	
890-2784-7	BH-166 (8')	Total/NA	Solid	8015 NM	
890-2784-8	BH-167 (8')	Total/NA	Solid	8015 NM	
890-2784-9	BH-168 (5')	Total/NA	Solid	8015 NM	
890-2784-10	BH-169 (5')	Total/NA	Solid	8015 NM	
390-2784-11	BH-170 (5')	Total/NA	Solid	8015 NM	
890-2784-12	BH-171 (5')	Total/NA	Solid	8015 NM	
890-2784-13	BH-172 (6')	Total/NA	Solid	8015 NM	
890-2784-14	BH-173 (6')	Total/NA	Solid	8015 NM	
890-2784-15	BH-174 (6')	Total/NA	Solid	8015 NM	
890-2784-16	BH-175 (4.5')	Total/NA	Solid	8015 NM	
890-2784-17	BH-176 (4.5')	Total/NA	Solid	8015 NM	
890-2784-18	BH-177 (4.5')	Total/NA	Solid	8015 NM	
890-2784-19	BH-178 (4.5')	Total/NA	Solid	8015 NM	
890-2784-20	BH-179 (4.5')	Total/NA	Solid	8015 NM	
390-2784-21	BH-180 (4.5')	Total/NA	Solid	8015 NM	
390-2784-22	BH-181 (4.5')	Total/NA	Solid	8015 NM	
890-2784-23	BH-182 (4.5')	Total/NA	Solid	8015 NM	
890-2784-24	BH-183 (4.5')	Total/NA	Solid	8015 NM	
890-2784-25	BH-184 (4.5')	Total/NA	Solid	8015 NM	
390-2784-26	BH-185 (4.5')	Total/NA	Solid	8015 NM	
890-2784-27	BH-186 (4.5')	Total/NA	Solid	8015 NM	
890-2784-28	BH-187 (4.5')	Total/NA	Solid	8015 NM	
890-2784-29	BH-188 (4.5')	Total/NA	Solid	8015 NM	
390-2784-30	BH-189 (4.5')	Total/NA	Solid	8015 NM	
390-2784-31	SW-38 (4.5-13')	Total/NA	Solid	8015 NM	
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	8015 NM	
390-2784-33	SW-43 (6-8')	Total/NA	Solid	8015 NM	
390-2784-34	SW-44 (4.5-8')	Total/NA	Solid	8015 NM	
890-2784-35	SW-45 (0-8')	Total/NA	Solid	8015 NM	
890-2784-36	SW-46 (0-5')	Total/NA	Solid	8015 NM	
890-2784-37	SW-47 (0-5')	Total/NA	Solid	8015 NM	
890-2784-38	SW-48 (6-8')	Total/NA	Solid	8015 NM	
390-2784-39	SW-49 (4.5-6')	Total/NA	Solid	8015 NM	
390-2784-40	SW-53 (0-8')	Total/NA	Solid	8015 NM	
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	8015 NM	
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	8015 NM	
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	8015 NM	
890-2784-44	SW-57 (6-8')	Total/NA	Solid	8015 NM	
890-2784-45	SW-58 (6-8')	Total/NA	Solid	8015 NM	
890-2784-46	SW-59 (6-8')	Total/NA	Solid	8015 NM	

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Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 32780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-47	SW-60 (0-13')	Total/NA	Solid	8015 NM	
890-2784-48	SW-61 (8-13')	Total/NA	Solid	8015 NM	
890-2784-49	SW-62 (8-13')	Total/NA	Solid	8015 NM	
890-2784-50	SW-63 (8-13')	Total/NA	Solid	8015 NM	
890-2784-51	SW-64 (8-10')	Total/NA	Solid	8015 NM	
890-2784-52	SW-65 (8-10')	Total/NA	Solid	8015 NM	
890-2784-53	SW-66 (8-10')	Total/NA	Solid	8015 NM	
890-2784-54	SW-67 (8-10')	Total/NA	Solid	8015 NM	
890-2784-55	SW-68 (0-6')	Total/NA	Solid	8015 NM	
890-2784-56	SW-69 (0-6')	Total/NA	Solid	8015 NM	
890-2784-57	SW-70 (0-4.5')	Total/NA	Solid	8015 NM	
890-2784-58	SW-71 (0-4.5')	Total/NA	Solid	8015 NM	

Analysis Batch: 32806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-21	BH-180 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-22	BH-181 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-23	BH-182 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-24	BH-183 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-25	BH-184 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-26	BH-185 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-27	BH-186 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-28	BH-187 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-29	BH-188 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-30	BH-189 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-31	SW-38 (4.5-13')	Total/NA	Solid	8015B NM	32714
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	8015B NM	32714
890-2784-33	SW-43 (6-8')	Total/NA	Solid	8015B NM	32714
890-2784-34	SW-44 (4.5-8')	Total/NA	Solid	8015B NM	32714
890-2784-35	SW-45 (0-8')	Total/NA	Solid	8015B NM	32714
890-2784-36	SW-46 (0-5')	Total/NA	Solid	8015B NM	32714
890-2784-37	SW-47 (0-5')	Total/NA	Solid	8015B NM	32714
890-2784-38	SW-48 (6-8')	Total/NA	Solid	8015B NM	32714
890-2784-39	SW-49 (4.5-6')	Total/NA	Solid	8015B NM	32714
890-2784-40	SW-53 (0-8')	Total/NA	Solid	8015B NM	32714
MB 880-32714/1-A	Method Blank	Total/NA	Solid	8015B NM	32714
LCS 880-32714/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32714
LCSD 880-32714/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32714
890-2784-21 MS	BH-180 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-21 MSD	BH-180 (4.5')	Total/NA	Solid	8015B NM	32714

Analysis Batch: 32808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	8015B NM	32774
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	8015B NM	32774
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	8015B NM	32774
890-2784-44	SW-57 (6-8')	Total/NA	Solid	8015B NM	32774
890-2784-45	SW-58 (6-8')	Total/NA	Solid	8015B NM	32774
890-2784-46	SW-59 (6-8')	Total/NA	Solid	8015B NM	32774
890-2784-47	SW-60 (0-13')	Total/NA	Solid	8015B NM	32774
MB 880-32774/1-A	Method Blank	Total/NA	Solid	8015B NM	32774

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 32808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-32774/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32774
LCSD 880-32774/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32774
880-18428-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	32774
880-18428-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32774

HPLC/IC

Leach Batch: 32582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-1	BH-120 (8')	Soluble	Solid	DI Leach	_
890-2784-2	BH-124 (8')	Soluble	Solid	DI Leach	
890-2784-3	BH-132 (8')	Soluble	Solid	DI Leach	
890-2784-4	BH-159 (8')	Soluble	Solid	DI Leach	
890-2784-5	BH-162 (8')	Soluble	Solid	DI Leach	
890-2784-6	BH-164 (8')	Soluble	Solid	DI Leach	
890-2784-7	BH-166 (8')	Soluble	Solid	DI Leach	
890-2784-8	BH-167 (8')	Soluble	Solid	DI Leach	
890-2784-9	BH-168 (5')	Soluble	Solid	DI Leach	
890-2784-10	BH-169 (5')	Soluble	Solid	DI Leach	
890-2784-11	BH-170 (5')	Soluble	Solid	DI Leach	
890-2784-12	BH-171 (5')	Soluble	Solid	DI Leach	
890-2784-13	BH-172 (6')	Soluble	Solid	DI Leach	
MB 880-32582/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32582/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32582/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2784-4 MS	BH-159 (8')	Soluble	Solid	DI Leach	
890-2784-4 MSD	BH-159 (8')	Soluble	Solid	DI Leach	

Leach Batch: 32583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2784-14	BH-173 (6')	Soluble	Solid	DI Leach	_
890-2784-15	BH-174 (6')	Soluble	Solid	DI Leach	
890-2784-16	BH-175 (4.5')	Soluble	Solid	DI Leach	
390-2784-17	BH-176 (4.5')	Soluble	Solid	DI Leach	
390-2784-18	BH-177 (4.5')	Soluble	Solid	DI Leach	
890-2784-19	BH-178 (4.5')	Soluble	Solid	DI Leach	
390-2784-20	BH-179 (4.5')	Soluble	Solid	DI Leach	
390-2784-21	BH-180 (4.5')	Soluble	Solid	DI Leach	
390-2784-22	BH-181 (4.5')	Soluble	Solid	DI Leach	
390-2784-23	BH-182 (4.5')	Soluble	Solid	DI Leach	
390-2784-24	BH-183 (4.5')	Soluble	Solid	DI Leach	
90-2784-25	BH-184 (4.5')	Soluble	Solid	DI Leach	
90-2784-26	BH-185 (4.5')	Soluble	Solid	DI Leach	
90-2784-27	BH-186 (4.5')	Soluble	Solid	DI Leach	
90-2784-28	BH-187 (4.5')	Soluble	Solid	DI Leach	
390-2784-29	BH-188 (4.5')	Soluble	Solid	DI Leach	
90-2784-30	BH-189 (4.5')	Soluble	Solid	DI Leach	
390-2784-31	SW-38 (4.5-13')	Soluble	Solid	DI Leach	
90-2784-32	SW-42 (4.5-8')	Soluble	Solid	DI Leach	
90-2784-33	SW-43 (6-8')	Soluble	Solid	DI Leach	
MB 880-32583/1-A	Method Blank	Soluble	Solid	DI Leach	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 32583 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-32583/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32583/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2784-14 MS	BH-173 (6')	Soluble	Solid	DI Leach	
890-2784-14 MSD	BH-173 (6')	Soluble	Solid	DI Leach	
890-2784-24 MS	BH-183 (4.5')	Soluble	Solid	DI Leach	
890-2784-24 MSD	BH-183 (4.5')	Soluble	Solid	DI Leach	

Leach Batch: 32584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-34	SW-44 (4.5-8')	Soluble	Solid	DI Leach	
890-2784-35	SW-45 (0-8')	Soluble	Solid	DI Leach	
890-2784-36	SW-46 (0-5')	Soluble	Solid	DI Leach	
890-2784-37	SW-47 (0-5')	Soluble	Solid	DI Leach	
890-2784-38	SW-48 (6-8')	Soluble	Solid	DI Leach	
890-2784-39	SW-49 (4.5-6')	Soluble	Solid	DI Leach	
890-2784-40	SW-53 (0-8')	Soluble	Solid	DI Leach	
890-2784-41	SW-54 (0-4.5')	Soluble	Solid	DI Leach	
890-2784-42	SW-55 (4.5-8')	Soluble	Solid	DI Leach	
890-2784-43	SW-56 (0-4.5')	Soluble	Solid	DI Leach	
890-2784-44	SW-57 (6-8')	Soluble	Solid	DI Leach	
890-2784-45	SW-58 (6-8')	Soluble	Solid	DI Leach	
890-2784-46	SW-59 (6-8')	Soluble	Solid	DI Leach	
890-2784-47	SW-60 (0-13')	Soluble	Solid	DI Leach	
890-2784-48	SW-61 (8-13')	Soluble	Solid	DI Leach	
890-2784-49	SW-62 (8-13')	Soluble	Solid	DI Leach	
890-2784-50	SW-63 (8-13')	Soluble	Solid	DI Leach	
890-2784-51	SW-64 (8-10')	Soluble	Solid	DI Leach	
890-2784-52	SW-65 (8-10')	Soluble	Solid	DI Leach	
890-2784-53	SW-66 (8-10')	Soluble	Solid	DI Leach	
MB 880-32584/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32584/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32584/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2784-34 MS	SW-44 (4.5-8')	Soluble	Solid	DI Leach	
890-2784-34 MSD	SW-44 (4.5-8')	Soluble	Solid	DI Leach	
890-2784-44 MS	SW-57 (6-8')	Soluble	Solid	DI Leach	
890-2784-44 MSD	SW-57 (6-8')	Soluble	Solid	DI Leach	

Leach Batch: 32585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-54	SW-67 (8-10')	Soluble	Solid	DI Leach	_
890-2784-55	SW-68 (0-6')	Soluble	Solid	DI Leach	
890-2784-56	SW-69 (0-6')	Soluble	Solid	DI Leach	
890-2784-57	SW-70 (0-4.5')	Soluble	Solid	DI Leach	
890-2784-58	SW-71 (0-4.5')	Soluble	Solid	DI Leach	
MB 880-32585/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32585/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32585/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2784-54 MS	SW-67 (8-10')	Soluble	Solid	DI Leach	
890-2784-54 MSD	SW-67 (8-10')	Soluble	Solid	DI Leach	

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

HPLC/IC

Analysis Batch: 33167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-1	BH-120 (8')	Soluble	Solid	300.0	32582
890-2784-2	BH-124 (8')	Soluble	Solid	300.0	32582
890-2784-3	BH-132 (8')	Soluble	Solid	300.0	32582
890-2784-4	BH-159 (8')	Soluble	Solid	300.0	32582
890-2784-5	BH-162 (8')	Soluble	Solid	300.0	32582
890-2784-6	BH-164 (8')	Soluble	Solid	300.0	32582
890-2784-7	BH-166 (8')	Soluble	Solid	300.0	32582
890-2784-8	BH-167 (8')	Soluble	Solid	300.0	32582
890-2784-9	BH-168 (5')	Soluble	Solid	300.0	32582
890-2784-10	BH-169 (5')	Soluble	Solid	300.0	32582
890-2784-11	BH-170 (5')	Soluble	Solid	300.0	32582
890-2784-12	BH-171 (5')	Soluble	Solid	300.0	32582
890-2784-13	BH-172 (6')	Soluble	Solid	300.0	32582
MB 880-32582/1-A	Method Blank	Soluble	Solid	300.0	32582
LCS 880-32582/2-A	Lab Control Sample	Soluble	Solid	300.0	32582
LCSD 880-32582/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32582
890-2784-4 MS	BH-159 (8')	Soluble	Solid	300.0	32582
890-2784-4 MSD	BH-159 (8')	Soluble	Solid	300.0	32582

Analysis Batch: 33168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-14	BH-173 (6')	Soluble	Solid	300.0	32583
890-2784-15	BH-174 (6')	Soluble	Solid	300.0	32583
890-2784-16	BH-175 (4.5')	Soluble	Solid	300.0	32583
890-2784-17	BH-176 (4.5')	Soluble	Solid	300.0	32583
890-2784-18	BH-177 (4.5')	Soluble	Solid	300.0	32583
890-2784-19	BH-178 (4.5')	Soluble	Solid	300.0	32583
890-2784-20	BH-179 (4.5')	Soluble	Solid	300.0	32583
890-2784-21	BH-180 (4.5')	Soluble	Solid	300.0	32583
890-2784-22	BH-181 (4.5')	Soluble	Solid	300.0	32583
890-2784-23	BH-182 (4.5')	Soluble	Solid	300.0	32583
890-2784-24	BH-183 (4.5')	Soluble	Solid	300.0	32583
390-2784-25	BH-184 (4.5')	Soluble	Solid	300.0	32583
890-2784-26	BH-185 (4.5')	Soluble	Solid	300.0	32583
390-2784-27	BH-186 (4.5')	Soluble	Solid	300.0	32583
390-2784-28	BH-187 (4.5')	Soluble	Solid	300.0	32583
890-2784-29	BH-188 (4.5')	Soluble	Solid	300.0	32583
890-2784-30	BH-189 (4.5')	Soluble	Solid	300.0	32583
890-2784-31	SW-38 (4.5-13')	Soluble	Solid	300.0	32583
890-2784-32	SW-42 (4.5-8')	Soluble	Solid	300.0	32583
890-2784-33	SW-43 (6-8')	Soluble	Solid	300.0	32583
MB 880-32583/1-A	Method Blank	Soluble	Solid	300.0	32583
LCS 880-32583/2-A	Lab Control Sample	Soluble	Solid	300.0	32583
LCSD 880-32583/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32583
890-2784-14 MS	BH-173 (6')	Soluble	Solid	300.0	32583
890-2784-14 MSD	BH-173 (6')	Soluble	Solid	300.0	32583
890-2784-24 MS	BH-183 (4.5')	Soluble	Solid	300.0	32583
890-2784-24 MSD	BH-183 (4.5')	Soluble	Solid	300.0	32583

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

HPLC/IC

Analysis Batch: 33169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-34	SW-44 (4.5-8')	Soluble	Solid	300.0	32584
890-2784-35	SW-45 (0-8')	Soluble	Solid	300.0	32584
890-2784-36	SW-46 (0-5')	Soluble	Solid	300.0	32584
890-2784-37	SW-47 (0-5')	Soluble	Solid	300.0	32584
890-2784-38	SW-48 (6-8')	Soluble	Solid	300.0	32584
890-2784-39	SW-49 (4.5-6')	Soluble	Solid	300.0	32584
890-2784-40	SW-53 (0-8')	Soluble	Solid	300.0	32584
890-2784-41	SW-54 (0-4.5')	Soluble	Solid	300.0	32584
890-2784-42	SW-55 (4.5-8')	Soluble	Solid	300.0	32584
890-2784-43	SW-56 (0-4.5')	Soluble	Solid	300.0	32584
890-2784-44	SW-57 (6-8')	Soluble	Solid	300.0	32584
890-2784-45	SW-58 (6-8')	Soluble	Solid	300.0	32584
890-2784-46	SW-59 (6-8')	Soluble	Solid	300.0	32584
890-2784-47	SW-60 (0-13')	Soluble	Solid	300.0	32584
890-2784-48	SW-61 (8-13')	Soluble	Solid	300.0	32584
890-2784-49	SW-62 (8-13')	Soluble	Solid	300.0	32584
890-2784-50	SW-63 (8-13')	Soluble	Solid	300.0	32584
890-2784-51	SW-64 (8-10')	Soluble	Solid	300.0	32584
890-2784-52	SW-65 (8-10')	Soluble	Solid	300.0	32584
890-2784-53	SW-66 (8-10')	Soluble	Solid	300.0	32584
MB 880-32584/1-A	Method Blank	Soluble	Solid	300.0	32584
LCS 880-32584/2-A	Lab Control Sample	Soluble	Solid	300.0	32584
LCSD 880-32584/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32584
890-2784-34 MS	SW-44 (4.5-8')	Soluble	Solid	300.0	32584
890-2784-34 MSD	SW-44 (4.5-8')	Soluble	Solid	300.0	32584
890-2784-44 MS	SW-57 (6-8')	Soluble	Solid	300.0	32584
890-2784-44 MSD	SW-57 (6-8')	Soluble	Solid	300.0	32584

Analysis Batch: 33170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-54	SW-67 (8-10')	Soluble	Solid	300.0	32585
890-2784-55	SW-68 (0-6')	Soluble	Solid	300.0	32585
890-2784-56	SW-69 (0-6')	Soluble	Solid	300.0	32585
890-2784-57	SW-70 (0-4.5')	Soluble	Solid	300.0	32585
890-2784-58	SW-71 (0-4.5')	Soluble	Solid	300.0	32585
MB 880-32585/1-A	Method Blank	Soluble	Solid	300.0	32585
LCS 880-32585/2-A	Lab Control Sample	Soluble	Solid	300.0	32585
LCSD 880-32585/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32585
890-2784-54 MS	SW-67 (8-10')	Soluble	Solid	300.0	32585
890-2784-54 MSD	SW-67 (8-10')	Soluble	Solid	300.0	32585

Job ID: 890-2784-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-120 (8')

Lab Sample ID: 890-2784-1

Lab Sample ID: 890-2784-3

Matrix: Solid

Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 00:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/22/22 22:36	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33167	08/29/22 04:12	CH	EET MID

Client Sample ID: BH-124 (8')

Lab Sample ID: 890-2784-2

Date Collected: 08/18/22 00:00 Matrix: Solid

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 00:20	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/22/22 23:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 04:20	CH	EET MID

Client Sample ID: BH-132 (8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 00:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 00:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 04:28	CH	EET MID

Client Sample ID: BH-159 (8')

Lab Sample ID: 890-2784-4

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Datab	Datah		Dil	luitial	Final	Datah	Duamanad		
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 01:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID

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Matrix: Solid

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Job ID: 890-2784-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2784-4

Matrix: Solid

Client Sample ID: BH-159 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 00:24	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33167	08/29/22 04:35	CH	EET MID

Client Sample ID: BH-162 (8') Lab Sample ID: 890-2784-5 Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab Total/NA 5035 Prep 4.99 g 5 mL 33358 08/30/22 12:01 EL **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 33411 09/01/22 01:21 MR EET MID 1 Total/NA Total BTEX **EET MID** Analysis 1 33551 09/01/22 12:44 SM Total/NA Analysis 8015 NM 32780 08/23/22 11:36 SM EET MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 32669 08/22/22 13:43 DM **EET MID** Total/NA Analysis 8015B NM 32586 08/23/22 00:45 SM **EET MID** Soluble Leach DI Leach 4.97 g 50 mL 32582 08/21/22 19:23 SMC EET MID Soluble Analysis 300.0 1 0 mL 0 mL 33167 08/29/22 04:59 СН **EET MID**

Client Sample ID: BH-164 (8') Lab Sample ID: 890-2784-6 Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 01:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 01:06	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33167	08/29/22 11:32	CH	EET MID

Client Sample ID: BH-166 (8') Lab Sample ID: 890-2784-7

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 02:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	32669 32586	08/22/22 13:43 08/23/22 01:27	DM SM	EET MID EET MID

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Matrix: Solid

Client Sample ID: BH-166 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 05:30	CH	EET MID

Client Sample ID: BH-167 (8') Lab Sample ID: 890-2784-8

Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 02:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 01:49	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 05:38	CH	EET MID

Client Sample ID: BH-168 (5') Lab Sample ID: 890-2784-9

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 02:43	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 02:10	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 05:46	CH	EET MID

Client Sample ID: BH-169 (5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 03:04	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 02:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 05:54	CH	EET MID

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Lab Sample ID: 890-2784-10

Matrix: Solid

Matrix: Solid

Job ID: 890-2784-1 SDG: Lea County NM

Client Sample ID: BH-170 (5')

Lab Sample ID: 890-2784-11

Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 04:25	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 03:14	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 06:02	CH	EET MID

Client Sample ID: BH-171 (5')

Lab Sample ID: 890-2784-12 Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/19/22 08:00

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.05 g 5 mL 33358 08/30/22 12:01 EL EET MID Total/NA 8021B 5 mL **EET MID** Analysis 1 5 mL 33411 09/01/22 04:46 MR Total/NA Total BTEX 33551 09/01/22 12:44 SM Analysis 1 **EET MID** Total/NA Analysis 8015 NM 32780 08/23/22 11:36 SM **EET MID** Total/NA 32669 Prep 8015NM Prep 10.01 g 08/22/22 13:43 DM **EET MID** 10 mL Total/NA Analysis 8015B NM 32586 08/23/22 03:35 SM **EET MID** Soluble Leach DI Leach 4.96 g 50 mL 32582 08/21/22 19:23 SMC **EET MID** Soluble Analysis 300.0 0 mL 0 mL 33167 08/29/22 06:10 СН **EET MID**

Client Sample ID: BH-172 (6')

Lab Sample ID: 890-2784-13 Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 05:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 03:56	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 06:17	CH	EET MID

Client Sample ID: BH-173 (6')

Lab Sample ID: 890-2784-14 Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 05:26	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID

Client Sample ID: BH-173 (6')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-14

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 04:17	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 07:20	CH	EET MID

Client Sample ID: BH-174 (6') Lab Sample ID: 890-2784-15 Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.09 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 05:47	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 04:38	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 07:44	CH	EET MID

Client Sample ID: BH-175 (4.5') Lab Sample ID: 890-2784-16 Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 06:07	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 04:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 07:52	CH	EET MID

Lab Sample ID: 890-2784-17 **Client Sample ID: BH-176 (4.5')**

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 06:28	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	32669 32586	08/22/22 13:43 08/23/22 05:21	DM SM	EET MID EET MID

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Matrix: Solid

Client Sample ID: BH-176 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 08:00	CH	EET MID

Client Sample ID: BH-177 (4.5') Lab Sample ID: 890-2784-18

Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 06:48	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 05:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33168	08/29/22 08:07	CH	EET MID

Client Sample ID: BH-178 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-19

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 07:09	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 06:03	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 08:31	CH	EET MID

Soluble	Analysis	300.0	1	0 mL	0 mL	33168	08/29/22 08:31	CH	EET MID
Client Sam	ple ID: BH-17	9 (4.5')					Lab Samp	ole ID:	890-2784-20
Date Collecte	d: 08/18/22 00:0	0							Matrix: Solid
Date Receive	d: 08/19/22 08:00	0							
_									

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 07:29	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 06:24	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 08:39	CH	EET MID

Client Sample ID: BH-180 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-21

Lab Sample ID: 890-2784-23

Lab Sample ID: 890-2784-24

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 18:05	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 13:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33168	08/29/22 08:47	CH	EET MID

Client Sample ID: BH-181 (4.5') Lab Sample ID: 890-2784-22 Matrix: Solid

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 18:25	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 14:26	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33168	08/29/22 08:54	CH	EET MID

Client Sample ID: BH-182 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 18:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 14:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 09:02	CH	EET MID

Client Sample ID: BH-183 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 19:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID

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Matrix: Solid

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Client Sample ID: BH-183 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-24

Matrix: Solid

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 15:17	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 09:10	CH	EET MID

Client Sample ID: BH-184 (4.5')

Lab Sample ID: 890-2784-25

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 19:26	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 16:17	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 09:34	CH	EET MID

Client Sample ID: BH-185 (4.5')

Lab Sample ID: 890-2784-26

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 19:47	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 16:39	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 09:42	CH	EET MID

Client Sample ID: BH-186 (4.5')

Lab Sample ID: 890-2784-27

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 20:07	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	32714 32806	08/22/22 16:33 08/24/22 18:48	DM SM	EET MID EET MID

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Matrix: Solid

Client Sample ID: BH-186 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-27

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33168	08/29/22 10:05	CH	EET MID

Client Sample ID: BH-187 (4.5') Lab Sample ID: 890-2784-28

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 20:28	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 17:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 10:13	CH	EET MID

Client Sample ID: BH-188 (4.5') Lab Sample ID: 890-2784-29

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 20:48	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 17:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33168	08/29/22 10:21	CH	EET MID

Client Sample ID: BH-189 (4.5') Lab Sample ID: 890-2784-30

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 22:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 17:44	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 10:29	CH	EET MID

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Matrix: Solid

Job ID: 890-2784-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-38 (4.5-13') Lab Sample ID: 890-2784-31

Date Collected: 08/18/22 00:00 Matrix: Solid Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	33465	08/31/22 21:09	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 20:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 10:36	CH	EET MID

Client Sample ID: SW-42 (4.5-8') Lab Sample ID: 890-2784-32

Date Collected: 08/18/22 00:00 Matrix: Solid

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 23:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 18:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 10:44	CH	EET MID

Client Sample ID: SW-43 (6-8') Lab Sample ID: 890-2784-33 Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 23:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32714	08/22/22 16:33	DM	EET MIC
Total/NA	Analysis	8015B NM		1			32806	08/24/22 20:36	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32583	08/21/22 19:29	SMC	EET MIC
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 10:52	CH	EET MID

Client Sample ID: SW-44 (4.5-8') Lab Sample ID: 890-2784-34

Date Collected: 08/18/22 00:00 **Matrix: Solid** Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 00:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID

Client Sample ID: SW-44 (4.5-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-34

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 20:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 14:49	CH	EET MID

Client Sample ID: SW-45 (0-8')

Lab Sample ID: 890-2784-35

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab Total/NA 5035 Prep 4.97 g 5 mL 33361 08/30/22 12:16 EL **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 33465 09/01/22 00:20 MR **EET MID** 1 Total/NA Total BTEX **EET MID** Analysis 1 33551 09/01/22 12:44 SM Total/NA Analysis 8015 NM 32780 08/23/22 11:36 SM **EET MID** 1 Total/NA Prep 8015NM Prep 10.01 g 10 mL 32714 08/22/22 16:33 DM **EET MID** Total/NA Analysis 8015B NM 32806 08/24/22 19:32 SM **EET MID** 1 Soluble Leach DI Leach 4.98 g 50 mL 32584 08/21/22 19:35 SMC **EET MID** 08/29/22 15:12 Soluble Analysis 300.0 1 0 mL 0 mL 33169 СН **EET MID**

Client Sample ID: SW-46 (0-5')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-36

Matrix: Solid

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 00:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 21:19	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33169	08/29/22 15:20	CH	EET MID

Client Sample ID: SW-47 (0-5')

Lab Sample ID: 890-2784-37

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 01:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	32714 32806	08/22/22 16:33 08/24/22 21:41	DM SM	EET MID EET MID

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Matrix: Solid

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Client Sample ID: SW-47 (0-5')

Lab Sample ID: 890-2784-37 Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 32584 SMC Leach 5.02 g 50 mL 08/21/22 19:35 **EET MID** 300.0 08/29/22 15:28 Soluble Analysis 1 0 mL 0 mL 33169 СН **EET MID**

Client Sample ID: SW-48 (6-8') Lab Sample ID: 890-2784-38

Date Collected: 08/18/22 00:00 Matrix: Solid

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 01:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 19:53	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 15:36	CH	EET MID

Client Sample ID: SW-49 (4.5-6')

Lab Sample ID: 890-2784-39 Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 01:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 19:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33169	08/29/22 15:59	CH	EET MID

Client Sample ID: SW-53 (0-8')

Lab Sample ID: 890-2784-40 Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 02:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 22:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33169	08/29/22 16:07	CH	EET MID

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Released to Imaging: 9/1/2023 3:11:42 PM

Job ID: 890-2784-1 SDG: Lea County NM

Client Sample ID: SW-54 (0-4.5')

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Date Collected: 08/18/22 00:00
Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-41

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2784-43

Lab Sample ID: 890-2784-44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 05:39	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	32774 32808	08/23/22 10:46 08/24/22 23:07	DM AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 16:15	CH	EET MID

Client Sample ID: SW-55 (4.5-8')

Lab Sample ID: 890-2784-42

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.08 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 06:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32774	08/23/22 10:46	DM	EET MID
Total/NA	Analysis	8015B NM		1			32808	08/24/22 23:29	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33169	08/29/22 16:23	CH	EET MID

Client Sample ID: SW-56 (0-4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035		·	5.01 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 06:20	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32774	08/23/22 10:46	DM	EET MID
Total/NA	Analysis	8015B NM		1			32808	08/24/22 23:51	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 16:31	CH	EET MID

Client Sample ID: SW-57 (6-8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 06:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID

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Matrix: Solid

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Lab Chronicle

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-57 (6-8')

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-44 Date Collected: 08/18/22 00:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM Analysis 32780 08/23/22 11:36 SM EET MID Total/NA Prep 8015NM Prep 10.03 g 10 mL 32774 08/23/22 10:46 DM **EET MID** Total/NA Analysis 8015B NM 32808 08/25/22 00:12 AJ EET MID 1 DI Leach Soluble 32584 08/21/22 19:35 SMC **EET MID** Leach 5 g 50 mL 300.0 08/29/22 16:39 Soluble Analysis 1 0 mL 0 mL 33169 СН **EET MID**

Client Sample ID: SW-58 (6-8') Lab Sample ID: 890-2784-45

Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		5	5 mL	5 mL	33465	09/01/22 09:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32774	08/23/22 10:46	DM	EET MID
Total/NA	Analysis	8015B NM		1			32808	08/25/22 00:33	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 17:03	CH	EET MID

Client Sample ID: SW-59 (6-8') Lab Sample ID: 890-2784-46

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 07:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32774	08/23/22 10:46	DM	EET MID
Total/NA	Analysis	8015B NM		1			32808	08/25/22 00:54	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 17:10	CH	EET MID

Client Sample ID: SW-60 (0-13') Lab Sample ID: 890-2784-47

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 07:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32774	08/23/22 10:46	DM	EET MID
Total/NA	Analysis	8015B NM		1			32808	08/25/22 01:16	AJ	EET MID

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Matrix: Solid

Matrix: Solid

Job ID: 890-2784-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: SW-60 (0-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-47

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33169	08/29/22 17:32	CH	EET MID

Client Sample ID: SW-61 (8-13') Lab Sample ID: 890-2784-48

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 07:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 20:43	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		10	0 mL	0 mL	33169	08/29/22 17:39	CH	EET MID

Client Sample ID: SW-62 (8-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-49

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 08:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 22:50	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 17:46	CH	EET MID

Client Sample ID: SW-63 (8-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-50 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 08:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 21:04	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 17:54	CH	EET MID

Client Sample ID: SW-64 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-51

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 11:32	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 23:11	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 18:01	CH	EET MID

Client Sample ID: SW-65 (8-10')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-52

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 11:52	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 23:32	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 18:08	CH	EET MID

Client Sample ID: SW-66 (8-10')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-53

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 12:13	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 23:53	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 18:15	CH	EET MID

Client Sample ID: SW-67 (8-10')

Batch

Туре

Prep

Analysis

Analysis

Batch

5035

8021B

Total BTEX

Method

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Prep Type

Total/NA

Total/NA

Total/NA

Lab Sample ID:	890-2784-54
	Matrix: Solid

SM

Prepared

or Analyzed

08/30/22 12:29

09/01/22 12:33

09/01/22 12:44

Analyst	Lab
EL	EET MID
MR	EET MID

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EET MID

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Initial

Amount

4.95 g

5 mL

Final

Amount

5 mL

5 mL

Batch

33362

33465

33551

Number

Dil

1

Factor

Run

Client Sample ID: SW-67 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-54

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/24/22 00:14	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33170	08/29/22 09:12	CH	EET MID

Client Sample ID: SW-68 (0-6')

Lab Sample ID: 890-2784-55

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 12:53	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/24/22 00:36	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33170	08/29/22 09:40	CH	EET MID

Client Sample ID: SW-69 (0-6')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-56

Matrix: Solid

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 13:14	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 22:07	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		10	0 mL	0 mL	33170	08/29/22 09:49	CH	EET MID

Client Sample ID: SW-70 (0-4.5')

Lab Sample ID: 890-2784-57

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	33465	09/01/22 14:35	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g	10 mL	32713 32730	08/22/22 16:29 08/23/22 22:29	DM AJ	EET MID EET MID

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Matrix: Solid

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Client Sample ID: SW-70 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-57

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33170	08/29/22 09:58	CH	EET MID

Client Sample ID: SW-71 (0-4.5') Lab Sample ID: 890-2784-58

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 13:34	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/24/22 00:57	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33170	08/29/22 10:07	СН	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: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority		ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-24	06-30-23	
The following analytes	are included in this report by	it the leberatory is not contiffi	iad butba gaugeming authority. This list ma		
the agency does not of	' '	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for v	
,	' '	Matrix	Analyte	ay include analytes for v	
the agency does not of	fer certification.	•	, , ,	ay include analytes for v	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea 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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2784-1 SDG: Lea County NM

	01: 40 1 15	••	0 11 4 4		
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2784-1	BH-120 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-2	BH-124 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-3	BH-132 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-4	BH-159 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-5	BH-162 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-6 890-2784-7	BH-164 (8') BH-166 (8')	Solid Solid	08/18/22 00:00	08/19/22 08:00 08/19/22 08:00	8 8
890-2784-8	• •	Solid	08/18/22 00:00 08/18/22 00:00	08/19/22 08:00	8
890-2784-9	BH-167 (8') BH-168 (5')	Solid	08/18/22 00:00	08/19/22 08:00	5
890-2784-10	BH-169 (5')	Solid	08/18/22 00:00	08/19/22 08:00	5
890-2784-11	BH-170 (5')	Solid	08/18/22 00:00	08/19/22 08:00	5
890-2784-12	BH-171 (5')	Solid	08/18/22 00:00	08/19/22 08:00	5
890-2784-13	BH-172 (6')	Solid	08/18/22 00:00	08/19/22 08:00	6
890-2784-14	BH-173 (6')	Solid	08/18/22 00:00	08/19/22 08:00	6
890-2784-15	BH-174 (6')	Solid	08/18/22 00:00	08/19/22 08:00	6
890-2784-16	BH-175 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-17	BH-176 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-18	BH-177 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-19	BH-178 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-20	BH-179 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-21	BH-180 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-22	BH-181 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-23	BH-182 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-24	BH-183 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-25	BH-184 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-26	BH-185 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-27	BH-186 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-28	BH-187 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-29	BH-188 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-30	BH-189 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-31	SW-38 (4.5-13')	Solid	08/18/22 00:00	08/19/22 08:00	4.5 - 13
890-2784-32	SW-42 (4.5-8')	Solid	08/18/22 00:00	08/19/22 08:00	4.5 - 8
890-2784-33	SW-43 (6-8')	Solid	08/18/22 00:00	08/19/22 08:00	6 - 8
890-2784-34	SW-44 (4.5-8')	Solid	08/18/22 00:00	08/19/22 08:00	4.5 - 8
890-2784-35	SW-45 (0-8')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 8
890-2784-36	SW-46 (0-5')	Solid	08/18/22 00:00	08/19/22 08:00	
890-2784-37	SW-47 (0-5')	Solid	08/18/22 00:00	08/19/22 08:00	
890-2784-38	SW-48 (6-8')	Solid	08/18/22 00:00	08/19/22 08:00	6 - 8
890-2784-39	SW-49 (4.5-6')	Solid	08/18/22 00:00	08/19/22 08:00	
890-2784-40	SW-53 (0-8')	Solid	08/18/22 00:00	08/19/22 08:00	
890-2784-41	SW-54 (0-4.5')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 4.5
890-2784-42	SW-55 (4.5-8')	Solid	08/18/22 00:00	08/19/22 08:00	4.5 - 8
890-2784-43	SW-56 (0-4.5')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 4.5
890-2784-44	SW-57 (6-8')	Solid	08/18/22 00:00	08/19/22 08:00	6 - 8
890-2784-45	SW-58 (6-8')	Solid	08/18/22 00:00	08/19/22 08:00	6 - 8
890-2784-46	SW-59 (6-8')	Solid	08/18/22 00:00	08/19/22 08:00	6-8
890-2784-47	SW-60 (0-13')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 13
890-2784-48	SW-61 (8-13')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 13
890-2784-49	SW-62 (8-13')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 13
890-2784-50	SW-63 (8-13')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 13
890-2784-51	SW-64 (8-10')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 10
890-2784-52	SW-65 (8-10')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 10
890-2784-53	SW-66 (8-10')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 10
890-2784-54	SW-67 (8-10')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 10
230 2.0107				33, .0, <u>L</u> L 00.00	- · •

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2784-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2784-55	SW-68 (0-6')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 6
890-2784-56	SW-69 (0-6')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 6
890-2784-57	SW-70 (0-4.5')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 4.5
890-2784-58	SW-71 (0-4.5')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 4.5

Relinquished by	Relinquished by:	a la	Relinquished by:											(LABUSE)	LAB		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4	Analysis no
y: Date: Time:	y: Date: Time:	The 8/19/23	y: Date: Time:	BH-169 (5')	Вн-168 (5')	ВН-167 (5')	Вн-166 (8')	BH-164 (9')	ВН-162 (8')	BH-159 (8')	ВН-132 (8')	ВН-124 (8')	Вн-120 (8')		SAMPLE IDENTIFICATION			*tory: Eurofins Xenco	Permian Water Solutions - Dusty McInturff	" Lea County, NM	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chair of Custody Record
Received by:	Received by:	("Sime 1")	Received by:	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	DATE TI M E	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:		
Date: Time:	V Date: Time:	6	Date: Time:	×	×	×	×	×	×	×	×	×	×	WATER SOIL HCL HNO ₃ ICE None	~	MATRIX PRESERVATIVE METHOD		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Mdland, Texas 79705 Tel (432) 682-4559	DOL 25'S JEAN AALDS
Circl 7	Samp	800 La		×	×	×	×	×	×	×	×	×	×	# CONT FILTERI BTEX 80 TPH TX	ED (Y	ERS (/N) BTE	X 82600	3				AN		
NAME DELIVERED	Sample Temperature	CNLY	INCE ONLY	×	×	×	×	×	×	×	×	×	×	TPH 80 PAH 82 Total Me TCLP Me	15M (70C tals A	GRO Ag As E Ag As I	DRO - C	Pb Se	Hg			ANALYS 890-27		
Special Report Limits or TRRP Report	Rush Charges Authorized	N SIANDARD	KS											TCLP Se RCI GC/MS \ GC/MS \ PCB's 8 NORM	/ol. 8 Semi. 082 /	3260B / Vol. 8 608	624	5			Change of Change	890-2784 Chain of Gustalu		
its or TRRP Report	norized	200		×	×	×	×	×	×	×	×	×	×	PLM (As Chloride Chloride General Anion/C	S Wate	ulfate er Che	TDS emistry (s	see att	ached I	ist)				9
														Hold										9

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Relinquished by:		Relinquished by:) and	Relinquished by:	8	BI	В	8	В	18	В	В	В	Bı	(LABUSE)	LAB#		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	(7	Anim Jose Long
Date: Time:		Date: Time:	16/8/18	Date: Time:	BH-179 (4.5°)	BH-178 (4.5')	BH-177 (4.5')	BH-176 (4.5')	BH-175 (4.5')	BH-174 (6°)	BH-173 (6')	BH-172 (6')	BH-171 (5')	BH-170 (5')		SAMPLE IDENTIFICATION			प्रः Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions		Tetra Tech, Inc.	
Received by:		Received by:		Required by:	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	DATE	YEAR: 2020	SAMPLING		campler orgnature:		Project #:		Site Manager			
Date: Time:		Date: Time:	のででる	Date: Time:	×	×	×	×	×	×	×	×	×	×	WATE SOIL HCL HNO ₃ ICE None	R	MATRIX PRESERVATIVE		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Fax (432) 682-3946	Midand, Texas 79705 Tel (432) 682-4559	SOLIA AND SUBBLY AND AND AND AND AND AND AND AND AND AND
<u></u>	27	Sample Temperature	LAB USE ONLY		×	×	×	×	×	×	×	×	×		PAH 82 Total M	RED (\) 8021B (1005)15M (270C etals A	ERS (/N) BTE (Ext to	X 8260	ORO - Pb Se	Нд			ANALYSIS REC			
Special Report Limits or TRRP Report	Rush Charges Authorized	RUSH: Same Day 24 hr 48 hr	X SIANUARU	REMARKS: [X] STANDARD	×	×	×	×	×	×	×	×	×	×	TCLP V TCLP S RCI GC/MS GC/MS PCB's NORM PLM (A Chlorid	Vol. 8 Semi. 8082 / sbesto e	solatiles 3260B Vol. 8 608 os)	7 624 3270C/62 TDS emistry (25		list)		REQUEST (Circle or Specify Method No.)			
ort		72 hr													Hold	-										

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	Relinquished by: Date: Time:		Relinquisked by	n	Relinguished by:											(LABUSE ONLY	LAB #		Comments:	Receiving Laboratory	invoice to:	(county, state)	Project Name:	Client Name:		1	Analysis		
			by: Date: Time:	16 8/19/12	by: Date: Time:	BH-189 (4.5')	BH-189 (4.5')	BH-189 (4.5')	ВН-189 (4.5)	BH-189 (4.5)	BH-188 (4.5)	BH-187 (4.5')	BH-186 (4.5')	Вн-185 (4.5)	BH-184 (4.5')	BH-183 (4.5')	BH-182 (4.5')	BH-181 (4.5')	BH-180 (4.5')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	lea County, NM	Kaiser SWD	Permian Water Solutions	
		Received by:	Received by:	- (W)	Received by:	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #		Wite of Manager of Man					
		Date: Time:	Date: Time:	26.61.80F	Date: Time:	×	×	×	×	×	×	×	×	×	×	WATER SOIL HCL HNO ₃ ICE None	R	MATRIX PRESERVATIVE		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Fax (432) 682-3946	Survy Wall Street, Sie 100 Midland, Texas 79705 Tel (432) 682-4559			
(Circle) HAND DELIVERED	-	しない	Sample Temperature	LAB USE ONLY	_	×	×	×	×	×	×	×	×	×	×	PAH 82 Total Me TCLP M	021B (1005 15M (70C etals A	ERS (/N) BTE (Ext to GRO Ag As E	EX 8260E C35) - DRO - C Ba Cd Cr Ba Cd Cr	ORO - Pb Se	Hg			ANALYSIS REQUEST					
RED FEDEX UPS Tracking #:	Special Report Limits or TRRP Report	Rush Charges Authorized	RUSH: Same Day 24 nr 48 nr		쏬	×	×	×	×	×	×	×	×	×	×	PCB's 8 NORM PLM (As Chloride Chloride	Vol. 8 Semi. 8082 / sbesto	Vol. 8 608 es)	7 624 2270C/625 TDS emistry (s		tached	list)		JEST cle or Specify Wethod No.)			Page		
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	Date: Time:		Date: Time:	8/19/20	Date: Time:	SW-53 (0-8')	SW-49 (4.5-6)	SW-48 (6-8')	SW-47 (0-5')	SW-46 (0-5')	SW-45 (0-8')	SW-44 (4.5-8')	SW-43 (6-8')	SW-42 (4.5-8')	SW-38 (4.5-13')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions		Tetra Tech, Inc.	Tatus Task Inc	Analysis Request of Chain of Custody Record					
	Vacanag py.	Docarios	Received by:	M () ()	Received by:	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	DATE	YEAR: 2020	SAMPLING			Sampler Signature:	Project #:		Site Manager:									
		Date: Time:	Date: Time:	S.10.3	Date: Time:	×	×	×	×	×	×	×	×		×	WATE SOIL HCL HNO ₃ ICE None	R	MATRIX PRESERVATIVE		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Fax (432) 682-3946	Tel (432) 682-4559	Midland, Texas 79705						
(Circle) HAND DELIVERED		した。	×	×	×	×	×	×	×	×		×	PAH 8 Total M TCLP !	RED (*) 8021B X1005 015M (*) 270C letals /	Y/N) BTI (Ext to	EX 82600 c C35) - DRO - 0 Ba Cd Cr	ORO -	e Hg			ANALYSIS REQUES												
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	ort		72 117													Hold												4 of 6					

Analysis Reques

9/1/2022

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2784-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 2784 List Number: 1 Creator: Clifton, Cloe

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.	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	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2784-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Source: Eurotins Midland
List Creation: 08/22/22 08:49 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 2784

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	N/A	

Eurofins Carlsbad

<6mm (1/4").

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Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2785-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 9/1/2022 12:08:19 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2785-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

2

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

F1 MS and/or MSD recovery exceeds control limits.
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.

Example 2 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

Eurofins Carlsbad

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2785-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2785-1

Receipt

The samples were received on 8/19/2022 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 7.0°C

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: BH-110 (6') (890-2785-1), BH-154 (8') (890-2785-2) and SW-41 (6-13') (890-2785-3). There was no cooling media present in the cooler. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with/cancel analysis

890-2785 Sample temp 7.2/7.0 there was no temp blank and samples were taken on the 18th- client said they just brought samples from fridge with no cooler and no temp blank- wants to processed with testing

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-2781-A-1-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-32668 and analytical batch 880-32588 were outside control limits. Non-homogeneity 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.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-110 (6')

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2785-1

Matrix: Solid

Method: 8021B - Volatile Organ	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 02:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 02:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 02:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 11:43	09/01/22 02:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 02:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 11:43	09/01/22 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				08/30/22 11:43	09/01/22 02:53	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/30/22 11:43	09/01/22 02:53	1
- Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:38	1
- Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <49.9 U 49.9 08/22/22 13:39 08/23/22 04:59 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 08/22/22 13:39 08/23/22 04:59 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 08/22/22 13:39 08/23/22 04:59 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 107 70 - 130 08/22/22 13:39 08/23/22 04:59 70 - 130 08/22/22 13:39 08/23/22 04:59 o-Terphenyl 96

Method: 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride3884.98mg/Kg08/29/22 10:381

Client Sample ID: BH-154 (8')

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2785-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 03:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 03:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 03:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 11:43	09/01/22 03:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 03:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 11:43	09/01/22 03:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/30/22 11:43	09/01/22 03:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/30/22 11:43	09/01/22 03:19	1

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Job ID: 890-2785-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-154 (8')

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00

Lab Sample ID: 890-2785-2

Matrix: Solid

Method: 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			09/01/22 12:38	1	

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit Analyzed Analyte D Prepared Dil Fac Total TPH <50.0 U 50.0 08/23/22 14:48 mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit Analyte D Prepared Dil Fac Analyzed <50.0 U 50.0 08/22/22 13:39 08/23/22 05:21 Gasoline Range Organics mg/Kg (GRO)-C6-C10 50.0 Diesel Range Organics (Over <50.0 U mg/Kg 08/22/22 13:39 08/23/22 05:21 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 08/22/22 13:39 08/23/22 05:21 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Chloride 88.9 5.03 mg/Kg 08/29/22 10:47

70 - 130

70 - 130

113

104

Client Sample ID: SW-41 (6-13')

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00

1-Chlorooctane

o-Terphenyl

Lab Sample ID: 890-2785-3

08/23/22 05:21

08/23/22 05:21

08/22/22 13:39

08/22/22 13:39

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.0403	U	0.0403		mg/Kg		08/30/22 11:43	09/01/22 00:23	20
Toluene	< 0.0403	U	0.0403		mg/Kg		08/30/22 11:43	09/01/22 00:23	20
Ethylbenzene	<0.0403	U	0.0403		mg/Kg		08/30/22 11:43	09/01/22 00:23	20
m-Xylene & p-Xylene	<0.0806	U	0.0806		mg/Kg		08/30/22 11:43	09/01/22 00:23	20
o-Xylene	< 0.0403	U	0.0403		mg/Kg		08/30/22 11:43	09/01/22 00:23	20
Xylenes, Total	<0.0806	U	0.0806		mg/Kg		08/30/22 11:43	09/01/22 00:23	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				08/30/22 11:43	09/01/22 00:23	20
1,4-Difluorobenzene (Surr)	93		70 - 130				08/30/22 11:43	09/01/22 00:23	20
Method: Total BTEX - Total BT	EX Calculation								
Method: Total BTEX - Total BT Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier U	RL 0.0806	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/01/22 12:38	
Analyte Total BTEX	Result <0.0806	U		MDL		<u>D</u>	Prepared		
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result <0.0806	U				<u>D</u>	Prepared Prepared		1
Analyte Total BTEX Method: 8015 NM - Diesel Ran	Result <0.0806	U O) (GC) Qualifier	0.0806		mg/Kg	_ =		09/01/22 12:38	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	Result <0.0806 ge Organics (DR Result <49.9	O) (GC) Qualifier	0.0806		mg/Kg	_ =		09/01/22 12:38 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	ge Organics (DR Result <49.9	O) (GC) Qualifier	0.0806	MDL	mg/Kg	_ =		09/01/22 12:38 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra	ge Organics (DR Result <49.9	O) (GC) Qualifier U RO) (GC) Qualifier	0.0806 RL 49.9	MDL	mg/Kg Unit mg/Kg	<u></u>	Prepared	09/01/22 12:38 Analyzed 08/23/22 14:48	Dil Fac

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2785-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-41 (6-13')

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00

Lab Sample ID: 890-2785-3 Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

1	Method. 00 13D MM - Dieser Kang	ge Organics (Di	NO) (GC) (C	onunueu)						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 13:39	08/23/22 05:42	1
	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	1-Chlorooctane	109		70 - 130				08/22/22 13:39	08/23/22 05:42	1
	o-Terphenyl	99		70 - 130				08/22/22 13:39	08/23/22 05:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	707		4.99		mg/Kg			08/29/22 10:56	1

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea 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)	
880-18581-A-21-E MS	Matrix Spike	101	104	
880-18581-A-21-F MSD	Matrix Spike Duplicate	110	108	
890-2785-1	BH-110 (6')	115	97	
890-2785-2	BH-154 (8')	107	95	
890-2785-3	SW-41 (6-13')	113	93	
LCS 880-33353/1-A	Lab Control Sample	107	106	
LCSD 880-33353/2-A	Lab Control Sample Dup	101	101	
MB 880-33353/5-A	Method Blank	74	82	

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)	
890-2781-A-1-E MS	Matrix Spike	117	90	
890-2781-A-1-F MSD	Matrix Spike Duplicate	87	76	
890-2785-1	BH-110 (6')	107	96	
890-2785-2	BH-154 (8')	113	104	
890-2785-3	SW-41 (6-13')	109	99	
LCS 880-32668/2-A	Lab Control Sample	98	91	
LCSD 880-32668/3-A	Lab Control Sample Dup	92	91	
MB 880-32668/1-A	Method Blank	101	96	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Released to Imaging: 9/1/2023 3:11:42 PM

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Job ID: 890-2785-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33353/5-A

Matrix: Solid

Analysis Batch: 33469

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33353

	мв	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 11:43	08/31/22 20:07	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	08/30/22 11.	43 08/31/22 20:07	1
1,4-Difluorobenzene (Surr)	82		70 - 130	08/30/22 11.	43 08/31/22 20:07	1

Lab Sample ID: LCS 880-33353/1-A

Matrix: Solid

Analysis Batch: 33469

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33353

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1114 mg/Kg 111 70 - 130 0.1082 Toluene 0.100 mg/Kg 108 70 - 130 0.100 0.1049 105 Ethylbenzene mg/Kg 70 - 130 0.200 0.2121 106 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1197 70 - 130 o-Xylene mg/Kg 120

LCS LCS

Surrogate	%Recovery Qual	lifier Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-33353/2-A

Matrix: Solid

Analysis Batch: 33469

	Client Sam	ple ID: Lab	Control Sam	ple Dup
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Prep Type: Total/NA

Prep Batch: 33353

RPD LCSD LCSD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.09634 mg/Kg 96 70 - 130 14 35 Toluene 0.100 0.09803 mg/Kg 98 70 - 130 10 35 Ethylbenzene 0.100 0.09504 mg/Kg 95 70 - 130 10 35 0.200 m-Xylene & p-Xylene 0.1926 mg/Kg 96 70 - 130 10 35 0.100 0.1063 o-Xylene mg/Kg 106 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-18581-A-21-E MS

Matrix: Solid

Analysis Batch: 33469

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 33353

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.1065		mg/Kg		105	70 - 130	
Toluene	<0.00199	U	0.101	0.1017		mg/Kg		101	70 - 130	

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Prep Batch: 33353

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2785-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-18581-A-21-E MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 33469

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.101	0.09276		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1866		mg/Kg		92	70 - 130	
o-Xylene	< 0.00199	U	0.101	0.1040		mg/Kg		103	70 - 130	

MS MS

Surrogate	%Recovery Qι	ıalifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-18581-A-21-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 33469

Prep Type: Total/NA Prep Batch: 33353

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00199 U 0.1162 mg/Kg 116 70 - 130 9 35 Toluene <0.00199 U 0.100 0.1098 mg/Kg 110 70 - 130 8 35 Ethylbenzene <0.00199 U 0.100 0.1011 mg/Kg 101 70 - 130 9 35 <0.00398 U 0.200 0.2022 101 70 - 130 35 m-Xylene & p-Xylene mg/Kg 8 <0.00199 U 0.100 0.1134 70 - 130 o-Xylene mg/Kg 113

MSD MSD

Surrogate	%Recovery Qu	ualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-32668/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 32588

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 13:39	08/22/22 21:31	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:39	08/22/22 21:31	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:39	08/22/22 21:31	1	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepai	red	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	08/22/22	13:39	08/22/22 21:31	1
o-Terphenyl	96		70 - 130	08/22/22	13:39	08/22/22 21:31	1

Lab Sample ID: LCS 880-32668/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 32588						Prep Batch: 32668					
	Spike	LCS	LCS				%Rec				
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits				
Gasoline Range Organics	1000	962.3		mg/Kg		96	70 - 130				
(GRO)-C6-C10											
Diesel Range Organics (Over	1000	942.6		mg/Kg		94	70 - 130				
C10-C28)											

Prep Type: Total/NA

Prep Batch: 32668

Job ID: 890-2785-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-32668/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 32588

		Prep Batch: 32668
LCS LCS		

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 98 70 - 130 o-Terphenyl 91 70 - 130

Lab Sample ID: LCSD 880-32668/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

C10-C28)

Analysis Batch: 32588							Prep	Batch:	32668	
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	887.7		mg/Kg		89	70 - 130	8	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	941.0		ma/Ka		94	70 - 130	0	20	

LCSD LCSD Surrogate %Recovery Qualifier Limits 92 70 - 130 1-Chlorooctane o-Terphenyl 91 70 - 130

Lab Sample ID: 890-2781-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 32588								Prep	Batch: 32668	
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	1306		mg/Kg		127	70 - 130	
Diesel Range Organics (Over	<49.9	U	999	1201		mg/Kg		120	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-2781-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 32588

Matrix: Solid

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	998	1415	F1	mg/Kg		138	70 - 130	8	20
Diesel Range Organics (Over	<49.9	U	998	1042		mg/Kg		104	70 - 130	14	20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	76		70 - 130

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Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 32668

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32585/1-A

Matrix: Solid

Analysis Batch: 33170

МВ МВ

 Analyte
 Result Chloride
 Qualifier
 RL VIDIAN
 MDL VIDIAN
 Unit VIDIAN
 D VIDIAN
 Prepared VIDIAN
 Analyzed VIDIAN
 Dil Fac VIDIAN

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 DI VIDIAN
 08/29/22 08:44
 1

Lab Sample ID: LCS 880-32585/2-A

Matrix: Solid

Analysis Batch: 33170

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 250.5 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-32585/3-A

Matrix: Solid

Analysis Batch: 33170

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 248.0 mg/Kg 90 - 110

Lab Sample ID: 890-2784-A-54-B MS

Matrix: Solid

Analysis Batch: 33170

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 215 252 478.7 105 90 - 110 mg/Kg

Lab Sample ID: 890-2784-A-54-C MSD

Matrix: Solid

Analysis Batch: 33170

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 252 215 486.1 mg/Kg 108 90 - 110 20

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 33353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Total/NA	Solid	5035	
890-2785-2	BH-154 (8')	Total/NA	Solid	5035	
890-2785-3	SW-41 (6-13')	Total/NA	Solid	5035	
MB 880-33353/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33353/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33353/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18581-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
880-18581-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 33469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Total/NA	Solid	8021B	33353
890-2785-2	BH-154 (8')	Total/NA	Solid	8021B	33353
890-2785-3	SW-41 (6-13')	Total/NA	Solid	8021B	33353
MB 880-33353/5-A	Method Blank	Total/NA	Solid	8021B	33353
LCS 880-33353/1-A	Lab Control Sample	Total/NA	Solid	8021B	33353
LCSD 880-33353/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33353
880-18581-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	33353
880-18581-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	33353

Analysis Batch: 33548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Total/NA	Solid	Total BTEX	
890-2785-2	BH-154 (8')	Total/NA	Solid	Total BTEX	
890-2785-3	SW-41 (6-13')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 32588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Total/NA	Solid	8015B NM	32668
890-2785-2	BH-154 (8')	Total/NA	Solid	8015B NM	32668
890-2785-3	SW-41 (6-13')	Total/NA	Solid	8015B NM	32668
MB 880-32668/1-A	Method Blank	Total/NA	Solid	8015B NM	32668
LCS 880-32668/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32668
LCSD 880-32668/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32668
890-2781-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	32668
890-2781-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32668

Prep Batch: 32668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Total/NA	Solid	8015NM Prep	
890-2785-2	BH-154 (8')	Total/NA	Solid	8015NM Prep	
890-2785-3	SW-41 (6-13')	Total/NA	Solid	8015NM Prep	
MB 880-32668/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32668/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32668/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2781-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2781-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2785-1

SDG: Lea County NM

GC Semi VOA

Analysis Batch: 32787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Total/NA	Solid	8015 NM	
890-2785-2	BH-154 (8')	Total/NA	Solid	8015 NM	
890-2785-3	SW-41 (6-13')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Soluble	Solid	DI Leach	
890-2785-2	BH-154 (8')	Soluble	Solid	DI Leach	
890-2785-3	SW-41 (6-13')	Soluble	Solid	DI Leach	
MB 880-32585/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32585/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32585/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2784-A-54-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2784-A-54-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 33170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Soluble	Solid	300.0	32585
890-2785-2	BH-154 (8')	Soluble	Solid	300.0	32585
890-2785-3	SW-41 (6-13')	Soluble	Solid	300.0	32585
MB 880-32585/1-A	Method Blank	Soluble	Solid	300.0	32585
LCS 880-32585/2-A	Lab Control Sample	Soluble	Solid	300.0	32585
LCSD 880-32585/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32585
890-2784-A-54-B MS	Matrix Spike	Soluble	Solid	300.0	32585
890-2784-A-54-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	32585

Eurofins Carlsbad

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Client: Tetra Tech, Inc. Job ID: 890-2785-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-110 (6')

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2785-1 Date Collected: 08/18/22 12:00 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33353	08/30/22 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33469	09/01/22 02:53	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33548	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			32787	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32668	08/22/22 13:39	DM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/23/22 04:59	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33170	08/29/22 10:38	CH	EET MID

Client Sample ID: BH-154 (8') Lab Sample ID: 890-2785-2

Date Collected: 08/18/22 12:00 Matrix: Solid

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33353	08/30/22 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33469	09/01/22 03:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33548	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			32787	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32668	08/22/22 13:39	DM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/23/22 05:21	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33170	08/29/22 10:47	CH	EET MID

Client Sample ID: SW-41 (6-13') Lab Sample ID: 890-2785-3

Date Collected: 08/18/22 12:00 **Matrix: Solid** Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33353	08/30/22 11:43	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	33469	09/01/22 00:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33548	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			32787	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32668	08/22/22 13:39	DM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/23/22 05:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33170	08/29/22 10:56	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: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas		ELAP	T104704400-22-24	06-30-23
The following englytes	and the street and the state of a contract that			
the agency does not of	• '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
,	• '	t the laboratory is not certifi Matrix	ed by the governing authority. This list ma	ay include analytes for
the agency does not of	fer certification.	•	, , ,	ay include analytes for

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea 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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2785-1	BH-110 (6')	Solid	08/18/22 12:00	08/19/22 08:00
890-2785-2	BH-154 (8')	Solid	08/18/22 12:00	08/19/22 08:00
890-2785-3	SW-41 (6-13')	Solid	08/18/22 12:00	08/19/22 08:00

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	Relinquished by:		Reling/ished by:	Delinarie her			SV	무	8	(LABUSE)	LAB#			Comments:	Receiving Laboratory:	involce to:	Project Location: (county, state)	Project Name:	Client Name:			Analysis Requ	
	Date: Time:		22,	Date: Time:			SW-41 (6-13')	BH-154 (8')	BH-110 (6')		SAMPLE IDENTIFICATION				y: Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions		Tetra Tech, Inc.	Analysis Request of Chain of Custody Record	
	Received by: Date: Time:		S. 19.3	Received by: Date: Time:			8/18/2022 X	8/18/2022 X	8/18/2022 X	TIME WATE SOIL HCL HNO3 ICE None			SAMPLING MATRIX PRESERVATIVE		Sampier signature: Peyton Oliver		Project # 212C-MD-02230	Clair.Gonzales@tetratech.com	Site Manager: Clair Gonzales	isi (452) 002-4509 Fax (432) 682-3946	Wildland, Texas 79705	0.00/2-080	
(Circle) HAND DELIVERED FEDEX UPS Tracking #	7.0 Special Report Limits or TRRP Report	☐ Rush Charges Authorized	Samula Temperature	REMARKS:			×	×	×	PAH 8 Total M TCLP N TCLP S RCI GC/MS GC/MS PCB'S NORM PLM (A Chlorid	RED 802' X100 015N 015N detal: Meta Volat Semi 808 Asbe de de al W	NER O (Y/N 1B 05 (E M (G C C S Ag tiles i Vola 1. 826 mi. Vo. 22 / 60 Sul	BTE xt to RO - As B As E tiles	DRO - Correction of the correc	Pb Se Pb Se	Hg Hg	list)		ANALYSIS REQUEST (Circle or Specify Method No.)			Page 1 of 1	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2785-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 2785 List Number: 1

Creator: Stutzman, Amanda

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.	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	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2785-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 08/22/22 08:49 AM

Login Number: 2785 List Number: 2

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	Commone
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or ampered 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	
s 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 ITs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
ample collection date/times are provided.	True	
ppropriate sample containers are used.	True	
ample 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 <6 mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2791-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 9/2/2022 10:38:17 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2791-1 SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-2791-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits. 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**

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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2791-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2791-1

Receipt

The samples were received on 8/19/2022 3:48 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 26.6°C

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: SW-72 (0-4.5') (890-2791-1), BH-190 (4.5') (890-2791-2), BH-191 (4.5') (890-2791-3), BH-192 (4.5) (890-2791-4) and BH-193 (4.5') (890-2791-5). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with/cancel analysis.

Samples received out of temp range 26.8/26.6 client wanted to proceed with sampling.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33466 and analytical batch 880-33557 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The following samples were diluted because the initial analysis produced a significant negative result - the absolute value exceeded the reporting limit (RL): SW-72 (0-4.5') (890-2791-1) and BH-193 (4.5') (890-2791-5). Reporting limits (RLs) are elevated as a result.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH-193 (4.5') (890-2791-5). 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.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-72 (0-4.5')

Date Collected: 08/19/22 12:00 Date Received: 08/19/22 15:48 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2791-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0502	U	0.0502		mg/Kg		08/31/22 14:40	09/01/22 21:12	25
Toluene	<0.0502	U	0.0502		mg/Kg		08/31/22 14:40	09/01/22 21:12	25
Ethylbenzene	<0.0502	U	0.0502		mg/Kg		08/31/22 14:40	09/01/22 21:12	25
m-Xylene & p-Xylene	<0.100	U	0.100		mg/Kg		08/31/22 14:40	09/01/22 21:12	25
o-Xylene	<0.0502	U	0.0502		mg/Kg		08/31/22 14:40	09/01/22 21:12	25
Xylenes, Total	<0.100	U	0.100		mg/Kg		08/31/22 14:40	09/01/22 21:12	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/31/22 14:40	09/01/22 21:12	25
1,4-Difluorobenzene (Surr)	92		70 - 130				08/31/22 14:40	09/01/22 21:12	25
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	921	Qualifier	49.9	MIDL	mg/Kg			08/25/22 16:03	- DII Fac
Total TPH	921		49.9		mg/kg			00/23/22 10:03	,
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		08/23/22 15:10	08/25/22 01:58	1
Diesel Range Organics (Over	921		49.9		mg/Kg		08/23/22 15:10	08/25/22 01:58	
C10-C28)									1
• • •	<49.9	U	49.9		mg/Kg		08/23/22 15:10	08/25/22 01:58	
C10-C28)	<49.9 %Recovery		49.9		mg/Kg		08/23/22 15:10 Prepared	08/25/22 01:58 Analyzed	1
C10-C28) Oll Range Organics (Over C28-C36)					mg/Kg				Dil Fac
C10-C28) OII Range Organics (Over C28-C36) Surrogate	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 112 105	Qualifier	Limits 70 - 130		mg/Kg		Prepared 08/23/22 15:10	Analyzed 08/25/22 01:58	1 1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 112 105 omatography -	Qualifier	Limits 70 - 130	MDL		D	Prepared 08/23/22 15:10	Analyzed 08/25/22 01:58	1

Client Sample ID: BH-190 (4.5')

Date Collected: 08/19/22 12:00

Matrix: Solid

Date Received: 08/19/22 15:48

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:29	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:29	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		08/31/22 14:40	09/01/22 18:29	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:29	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		08/31/22 14:40	09/01/22 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/31/22 14:40	09/01/22 18:29	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/31/22 14:40	09/01/22 18:29	1

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-190 (4.5')

Date Collected: 08/19/22 12:00

Lab Sample ID: 890-2791-2 Matrix: Solid

Date Received: 08/19/22 15:48

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/02/22 11:24	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	234		49.9		mg/Kg			08/25/22 16:03	1
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/23/22 15:10	08/25/22 08:35	1
(GRO)-C6-C10									
Diesel Range Organics (Over	234		49.9		mg/Kg		08/23/22 15:10	08/25/22 08:35	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/23/22 15:10	08/25/22 08:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113	-	70 - 130				08/23/22 15:10	08/25/22 08:35	1
o-Terphenyl	113		70 - 130				08/23/22 15:10	08/25/22 08:35	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	•	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

5.02

Client Sample ID: BH-191 (4.5')

Chloride

Date Collected: 08/19/22 12:00 **ANALYSIS TABLE** Date Received: 08/19/22 15:48

686

Lab Sample ID: 890-2791-3 **REMOVED FROM**

mg/Kg

Matrix: Solid

08/24/22 15:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		08/31/22 14:40	09/01/22 18:49	
Toluene	<0.00201	U	0.00201		mg/Kg		08/31/22 14:40	09/01/22 18:49	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/31/22 14:40	09/01/22 18:49	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/31/22 14:40	09/01/22 18:49	
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/31/22 14:40	09/01/22 18:49	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/31/22 14:40	09/01/22 18:49	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	88		70 - 130				08/31/22 14:40	09/01/22 18:49	
Method: Total BTEX - Total BT		Qualifier	70 ₋ 130	MDI	llait	В	08/31/22 14:40	09/01/22 18:49	
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte	EX Calculation Result	Qualifier	RL	MDL	Unit	<u>D</u>	08/31/22 14:40 Prepared	Analyzed	Dil Fa
Method: Total BTEX - Total BT Analyte Total BTEX	EX Calculation Result <0.00402	U		MDL	Unit mg/Kg	<u>D</u>			Dil Fa
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran	EX Calculation Result <0.00402 ge Organics (DR	U (GC)	RL		mg/Kg	_ =	Prepared	Analyzed 09/02/22 11:24	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	EX Calculation Result <0.00402 ge Organics (DR Result	U	RL		mg/Kg	<u>D</u>		Analyzed 09/02/22 11:24 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX	EX Calculation Result <0.00402 ge Organics (DR	U (GC)	RL		mg/Kg	_ =	Prepared	Analyzed 09/02/22 11:24	Dil Fa
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	EX Calculation Result <0.00402 ge Organics (DR Result 1800 nge Organics (D	O) (GC) Qualifier RO) (GC)	RL		mg/Kg	_ =	Prepared	Analyzed 09/02/22 11:24 Analyzed	Dil Fa
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra	EX Calculation Result <0.00402 ge Organics (DR Result 1800 nge Organics (D	O) (GC) Qualifier	RL	MDL	mg/Kg	_ =	Prepared	Analyzed 09/02/22 11:24 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	EX Calculation Result <0.00402 ge Organics (DR Result 1800 nge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	RL 0.00402 RL 50.0	MDL	mg/Kg Unit mg/Kg	<u></u>	Prepared Prepared	Analyzed 09/02/22 11:24 Analyzed 08/25/22 16:03	Dil Fa

Client Sample Results

Job ID: 890-2791-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-191 (4.5') Date Collected: 08/19/22 12:00

Date Received: 08/19/22 15:48

REMOVED FROM **ANALYSIS TABLE** Lab Sample ID: 890-2791-3

Matrix: Solid

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC) (C	Continued)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/23/22 15:10	08/25/22 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				08/23/22 15:10	08/25/22 02:41	1
o-Terphenyl	96		70 - 130				08/23/22 15:10	08/25/22 02:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble RL MDL Dil Fac Analyte Result Qualifier Unit D Prepared Analyzed 25.2 08/24/22 15:49 5 Chloride 249 mg/Kg

Client Sample ID: BH-192 (4.5)

Date Collected: 08/19/22 12:00 Date Received: 08/19/22 15:48

REMOVED FROM **ANALYSIS TABLE**

Lab Sample ID: 890-2791-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 08/31/22 14:40 09/01/22 19:09 mg/Kg Toluene <0.00200 U 0.00200 08/31/22 14:40 09/01/22 19:09 mg/Kg Ethylbenzene <0.00200 U 0.00200 08/31/22 14:40 09/01/22 19:09 mg/Kg 08/31/22 14:40 09/01/22 19:09 m-Xylene & p-Xylene < 0.00399 U 0.00399 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 08/31/22 14:40 09/01/22 19:09 <0.00399 U 08/31/22 14:40 Xylenes, Total 0.00399 mg/Kg 09/01/22 19:09

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 91 70 - 130 08/31/22 14:40 4-Bromofluorobenzene (Surr) 09/01/22 19:09 103 1,4-Difluorobenzene (Surr) 70 - 130 08/31/22 14:40 09/01/22 19:09

Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Total BTEX <0.00399 U 0.00399 mg/Kg 09/02/22 11:24

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier MDL Dil Fac RL Unit D Prepared Analyzed 49.9 08/25/22 16:03 **Total TPH** 2050 mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac <49.9 49.9 08/23/22 15:10 08/25/22 03:02 Gasoline Range Organics mg/Kg (GRO)-C6-C10 08/23/22 15:10 08/25/22 03:02 **Diesel Range Organics (Over** 2050 49.9 mg/Kg

Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 08/23/22 15:10 08/25/22 03:02 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 101 70 - 130 08/23/22 15:10 08/25/22 03:02 08/23/22 15:10 08/25/22 03:02 o-Terphenyl 95 70 - 130

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier MDL Unit Dil Fac RL Prepared Analyzed Chloride 5.01 mg/Kg 08/24/22 15:57 48.0

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9/2/2022

C10-C28

Client: Tetra Tech, Inc.

Job ID: 890-2791-1 SDG: Lea County NM

Project/Site: Kaiser SWD C

Lab Sample ID: 890-2791-5

Matrix: Solid

Client Sample ID: BH-193 (4.5')	REMOVED FROM
Date Collected: 08/19/22 12:00	ANALYSIS TABLE
Date Received: 08/19/22 15:48	ANALISIS TABLE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0497	U	0.0497		mg/Kg		08/31/22 14:40	09/01/22 21:32	25
Toluene	<0.0497	U	0.0497		mg/Kg		08/31/22 14:40	09/01/22 21:32	25
Ethylbenzene	<0.0497	U	0.0497		mg/Kg		08/31/22 14:40	09/01/22 21:32	25
m-Xylene & p-Xylene	<0.0994	U	0.0994		mg/Kg		08/31/22 14:40	09/01/22 21:32	25
o-Xylene	<0.0497	U	0.0497		mg/Kg		08/31/22 14:40	09/01/22 21:32	25
Xylenes, Total	<0.0994	U	0.0994		mg/Kg		08/31/22 14:40	09/01/22 21:32	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	96		70 - 130				08/31/22 14:40	09/01/22 21:32	25
1,4-Difluorobenzene (Surr)	85		70 - 130				08/31/22 14:40	09/01/22 21:32	25
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.0994	U	0.0994		mg/Kg			09/02/22 11:24	
Mathadi 2045 NM Dissal Danes			0.000		9/.19			00/02/22 11.21	
	e Organics (DR		RL	MDL		<u>D</u>	Prepared	Analyzed	
Analyte	e Organics (DR	O) (GC)		MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	e Organics (DRO Result 16000	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	e Organics (DR Result 16000 ge Organics (DI Result	O) (GC) Qualifier RO) (GC) Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	e Organics (DR Result 16000 ge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	RL		Unit mg/Kg			Analyzed 08/25/22 16:03	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result 16000 ge Organics (DI Result	O) (GC) Qualifier RO) (GC) Qualifier			Unit mg/Kg		Prepared	Analyzed 08/25/22 16:03 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result 16000 ge Organics (DI Result <250	Qualifier RO) (GC) Qualifier U			Unit mg/Kg Unit mg/Kg		Prepared 08/23/22 15:10	Analyzed 08/25/22 16:03 Analyzed 08/25/22 03:23	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	e Organics (DR Result 16000 ge Organics (DI Result <250	Qualifier RO) (GC) Qualifier U	RL 250 RL 250 250		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 15:10 08/23/22 15:10	Analyzed 08/25/22 16:03 Analyzed 08/25/22 03:23 08/25/22 03:23	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	e Organics (DR Result 16000 ge Organics (DI Result <250 16000	Qualifier RO) (GC) Qualifier U	RL 250 RL 250 250 250		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 15:10 08/23/22 15:10 08/23/22 15:10	Analyzed 08/25/22 16:03 Analyzed 08/25/22 03:23 08/25/22 03:23	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (DR Result 16000 ge Organics (DI Result <250 16000 <250	Qualifier RO) (GC) Qualifier U Qualifier	RL 250 RL 250 250 250 250 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 15:10 08/23/22 15:10 08/23/22 15:10 Prepared	Analyzed 08/25/22 16:03 Analyzed 08/25/22 03:23 08/25/22 03:23 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	Result 16000 Result	O) (GC) Qualifier RO) (GC) Qualifier U U Qualifier S1-	RL 250 RL 250 250 250 250 Limits 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 15:10 08/23/22 15:10 08/23/22 15:10 Prepared 08/23/22 15:10	Analyzed 08/25/22 16:03 Analyzed 08/25/22 03:23 08/25/22 03:23 Analyzed 08/25/22 03:23	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 16000 Result	O) (GC) Qualifier RO) (GC) Qualifier U U Qualifier S1-	RL 250 RL 250 250 250 250 Limits 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 08/23/22 15:10 08/23/22 15:10 08/23/22 15:10 Prepared 08/23/22 15:10	Analyzed 08/25/22 16:03 Analyzed 08/25/22 03:23 08/25/22 03:23 Analyzed 08/25/22 03:23	Dil Fac

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea 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)	
890-2791-1	SW-72 (0-4.5')	104	92	
890-2791-2	BH-190 (4.5')	93	101	
890-2791-2 MS	BH-190 (4.5')	94	109	
890-2791-2 MSD	BH-190 (4.5')	93	108	
890-2791-3	BH-191 (4.5')	88	103	
890-2791-4	BH-192 (4.5)	91	103	
890-2791-5	BH-193 (4.5')	96	85	
LCS 880-33466/1-A	Lab Control Sample	94	99	
LCSD 880-33466/2-A	Lab Control Sample Dup	96	101	
MB 880-33466/5-A	Method Blank	78	116	

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	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-2791-1	SW-72 (0-4.5')	112	105	
)-2791-2	BH-190 (4.5')	113	113	
-2791-3	BH-191 (4.5')	104	96	
-2791-4	BH-192 (4.5)	101	95	
0-2791-5	BH-193 (4.5')	69 S1-	101	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33466/5-A

Matrix: Solid

Analysis Batch: 33557 MD MD Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33466

ı		MB	MR							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
	Toluene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
	Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
ı										

MB MB

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78	70 - 130	08/31/22 14:40	09/01/22 18:00	1
1,4-Difluorobenzene (Surr)	116	70 - 130	08/31/22 14:40	09/01/22 18:00	1

Lab Sample ID: LCS 880-33466/1-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 33466

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1098 mg/Kg 110 70 - 130 Toluene 0.100 0.1103 mg/Kg 110 70 - 130 0.100 0.1076 108 Ethylbenzene mg/Kg 70 - 130 0.200 99 70 - 130 m-Xylene & p-Xylene 0.1975 mg/Kg 0.100 0.1037 70 - 130 o-Xylene mg/Kg 104

LCS LCS

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-33466/2-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33466

	Spike	LCSD LC	SD			%Rec		RPD
Analyte	Added	Result Qu	alifier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1142	mg/Kg		114	70 - 130	4	35
Toluene	0.100	0.1143	mg/Kg		114	70 - 130	4	35
Ethylbenzene	0.100	0.1120	mg/Kg		112	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2059	mg/Kg		103	70 - 130	4	35
o-Xylene	0.100	0.1080	mg/Kg		108	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: 890-2791-2 MS

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: BH-190 (4.5')

Prep Type: Total/NA

Prep Batch: 33466

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.09295		mg/Kg	_	93	70 - 130	
Toluene	<0.00200	U	0.0998	0.06941		mg/Kg		70	70 - 130	

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2791-2 MS **Matrix: Solid**

Analysis Batch: 33557

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00200	U F1	0.0998	0.04751	F1	mg/Kg		48	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.08400	F1	mg/Kg		42	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.04484	F1	mg/Kg		45	70 - 130

MS MS

Surrogate	%Recovery Qua	alifier Limits	
4-Bromofluorobenzene (Surr)	94	70 - 130	_
1,4-Difluorobenzene (Surr)	109	70 - 130	

Lab Sample ID: 890-2791-2 MSD

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: BH-190 (4.5') Prep Type: Total/NA

Prep Batch: 33466

Client Sample ID: BH-190 (4.5')

Prep Type: Total/NA

Prep Batch: 33466

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.09702		mg/Kg		98	70 - 130	4	35
Toluene	<0.00200	U	0.0994	0.07575		mg/Kg		76	70 - 130	9	35
Ethylbenzene	<0.00200	U F1	0.0994	0.05323	F1	mg/Kg		54	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.09324	F1	mg/Kg		47	70 - 130	10	35
o-Xylene	<0.00200	U F1	0.0994	0.05060	F1	mg/Kg		51	70 - 130	12	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32736/1-A

Matrix: Solid

Analysis Batch: 32797

Client Sample ID: Method Blank **Prep Type: Soluble**

MB MB

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 L	J	5.00		ma/Ka			08/24/22 12:02	1

Lab Sample ID: LCS 880-32736/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 32797

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	243 9		ma/Ka		98	90 110	

Lab Sample ID: LCSD 880-32736/3-A

Matrix: Solid

Analysis Batch: 32797

Allalysis Datcil. 32131									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	243.8		mg/Kg	_	98	90 - 110	0	20

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Prep Type: Soluble

Client Sample ID: Lab Control Sample Dup

Released to Imaging: 9/1/2023 3:11:42 PM

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2791-2 MS **Client Sample ID: BH-190 (4.5')**

Matrix: Solid Prep Type: Soluble Analysis Batch: 32797

Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Added Analyte Unit %Rec Limits Chloride 686 251 919.6 mg/Kg 93 90 - 110

Lab Sample ID: 890-2791-2 MSD Client Sample ID: BH-190 (4.5')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 32797

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier RPD Added Result Qualifier Limits Limit Analyte Unit D %Rec Chloride 686 251 918.4 mg/Kg 93 90 - 110 0 20

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 33466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Total/NA	Solid	5035	
890-2791-2	BH-190 (4.5')	Total/NA	Solid	5035	
890-2791-3	BH-191 (4.5')	Total/NA	Solid	5035	
890-2791-4	BH-192 (4.5)	Total/NA	Solid	5035	
890-2791-5	BH-193 (4.5')	Total/NA	Solid	5035	
MB 880-33466/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33466/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33466/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2791-2 MS	BH-190 (4.5')	Total/NA	Solid	5035	
890-2791-2 MSD	BH-190 (4.5')	Total/NA	Solid	5035	

Analysis Batch: 33557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Total/NA	Solid	8021B	33466
890-2791-2	BH-190 (4.5')	Total/NA	Solid	8021B	33466
890-2791-3	BH-191 (4.5')	Total/NA	Solid	8021B	33466
890-2791-4	BH-192 (4.5)	Total/NA	Solid	8021B	33466
890-2791-5	BH-193 (4.5')	Total/NA	Solid	8021B	33466
MB 880-33466/5-A	Method Blank	Total/NA	Solid	8021B	33466
LCS 880-33466/1-A	Lab Control Sample	Total/NA	Solid	8021B	33466
LCSD 880-33466/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33466
890-2791-2 MS	BH-190 (4.5')	Total/NA	Solid	8021B	33466
890-2791-2 MSD	BH-190 (4.5')	Total/NA	Solid	8021B	33466

Analysis Batch: 33637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Total/NA	Solid	Total BTEX	
890-2791-2	BH-190 (4.5')	Total/NA	Solid	Total BTEX	
890-2791-3	BH-191 (4.5')	Total/NA	Solid	Total BTEX	
890-2791-4	BH-192 (4.5)	Total/NA	Solid	Total BTEX	
890-2791-5	BH-193 (4.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 32793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-2791-2	BH-190 (4.5')	Total/NA	Solid	8015NM Prep	
890-2791-3	BH-191 (4.5')	Total/NA	Solid	8015NM Prep	
890-2791-4	BH-192 (4.5)	Total/NA	Solid	8015NM Prep	
890-2791-5	BH-193 (4.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Total/NA	Solid	8015B NM	32793
890-2791-2	BH-190 (4.5')	Total/NA	Solid	8015B NM	32793
890-2791-3	BH-191 (4.5')	Total/NA	Solid	8015B NM	32793
890-2791-4	BH-192 (4.5)	Total/NA	Solid	8015B NM	32793
890-2791-5	BH-193 (4.5')	Total/NA	Solid	8015B NM	32793

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA

Analysis Batch: 32998

Lab Sample ID 890-2791-1	Client Sample ID SW-72 (0-4.5')	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-2791-2	BH-190 (4.5')	Total/NA	Solid	8015 NM	
890-2791-3	BH-191 (4.5')	Total/NA	Solid	8015 NM	
890-2791-4	BH-192 (4.5)	Total/NA	Solid	8015 NM	
890-2791-5	BH-193 (4.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Soluble	Solid	DI Leach	
890-2791-2	BH-190 (4.5')	Soluble	Solid	DI Leach	
890-2791-3	BH-191 (4.5')	Soluble	Solid	DI Leach	
890-2791-4	BH-192 (4.5)	Soluble	Solid	DI Leach	
890-2791-5	BH-193 (4.5')	Soluble	Solid	DI Leach	
MB 880-32736/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32736/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32736/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2791-2 MS	BH-190 (4.5')	Soluble	Solid	DI Leach	
890-2791-2 MSD	BH-190 (4.5')	Soluble	Solid	DI Leach	

Analysis Batch: 32797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Soluble	Solid	300.0	32736
890-2791-2	BH-190 (4.5')	Soluble	Solid	300.0	32736
890-2791-3	BH-191 (4.5')	Soluble	Solid	300.0	32736
890-2791-4	BH-192 (4.5)	Soluble	Solid	300.0	32736
890-2791-5	BH-193 (4.5')	Soluble	Solid	300.0	32736
MB 880-32736/1-A	Method Blank	Soluble	Solid	300.0	32736
LCS 880-32736/2-A	Lab Control Sample	Soluble	Solid	300.0	32736
LCSD 880-32736/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32736
890-2791-2 MS	BH-190 (4.5')	Soluble	Solid	300.0	32736
890-2791-2 MSD	BH-190 (4.5')	Soluble	Solid	300.0	32736

Eurofins Carlsbad

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Job ID: 890-2791-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: SW-72 (0-4.5') Lab Sample ID: 890-2791-1

Date Collected: 08/19/22 12:00

Date Received: 08/19/22 15:48

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 33466 Total/NA Prep 4.98 g 5 mL 08/31/22 14:40 MR **EET MID** 8021B Total/NA Analysis 25 5 mL 5 mL 33557 09/01/22 21:12 EL **EET MID** Total/NA Analysis Total BTEX 33637 09/02/22 11:24 AJ **EET MID** 1 Total/NA 8015 NM 32998 08/25/22 16:03 **EET MID** Analysis 1 SM Total/NA 8015NM Prep 10 mL 32793 08/23/22 15:10 EET MID Prep 10.02 g DM Total/NA Analysis 8015B NM 32806 08/25/22 01:58 SM **EET MID** Soluble DI Leach 5,05 g 50 mL 32736 08/23/22 09:11 KS Leach FFT MID Soluble Analysis 300.0 32797 08/24/22 15:18 SMC **EET MID**

Client Sample ID: BH-190 (4.5') Lab Sample ID: 890-2791-2

Date Collected: 08/19/22 12:00 **Matrix: Solid**

Date Received: 08/19/22 15:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/01/22 18:29	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33637	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32998	08/25/22 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32793	08/23/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/25/22 08:35	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32736	08/23/22 09:11	KS	EET MID
Soluble	Analysis	300.0		1			32797	08/24/22 15:25	SMC	EET MID

Lab Sample ID: 890-2791-3 **Client Sample ID: BH-191 (4.5')**

Date Collected: 08/19/22 12:00 **Matrix: Solid** Date Received: 08/19/22 15:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/01/22 18:49	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33637	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32998	08/25/22 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32793	08/23/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/25/22 02:41	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32736	08/23/22 09:11	KS	EET MID
Soluble	Analysis	300.0		5			32797	08/24/22 15:49	SMC	EET MID

Lab Sample ID: 890-2791-4 Client Sample ID: BH-192 (4.5)

Date Collected: 08/19/22 12:00 **Matrix: Solid** Date Received: 08/19/22 15:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/01/22 19:09	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33637	09/02/22 11:24	AJ	EET MID

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-192 (4.5)

Date Received: 08/19/22 15:48

Lab Sample ID: 890-2791-4 Date Collected: 08/19/22 12:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32998	08/25/22 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32793	08/23/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/25/22 03:02	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32736	08/23/22 09:11	KS	EET MID
Soluble	Analysis	300.0		1			32797	08/24/22 15:57	SMC	EET MID

Client Sample ID: BH-193 (4.5') Lab Sample ID: 890-2791-5

Date Collected: 08/19/22 12:00 **Matrix: Solid**

Date Received: 08/19/22 15:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	33557	09/01/22 21:32	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33637	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32998	08/25/22 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32793	08/23/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		5			32806	08/25/22 03:23	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32736	08/23/22 09:11	KS	EET MID
Soluble	Analysis	300.0		5			32797	08/24/22 16:20	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Released to Imaging: 9/1/2023 3:11:42 PM

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NELAP		T104704400-22-24	06-30-23	
The following analytes	are included in this report by	it the leberatory is not cortifi	ed by the governing authority. This list ma	arrimalizada amaliztaa farr	
the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list his	ay include arialytes for	
0 ,	• •	Matrix	Analyte	ay include analytes for	
the agency does not of	fer certification.	•	, , ,	ay include analytes for	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea 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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

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Sample Summary

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2791-1	SW-72 (0-4.5')	Solid	08/19/22 12:00	08/19/22 15:48
890-2791-2	BH-190 (4.5')	Solid	08/19/22 12:00	08/19/22 15:48
890-2791-3	BH-191 (4.5')	Solid	08/19/22 12:00	08/19/22 15:48
890-2791-4	BH-192 (4.5)	Solid	08/19/22 12:00	08/19/22 15:48
890-2791-5	BH-193 (4.5')	Solid	08/19/22 12:00	08/19/22 15:48

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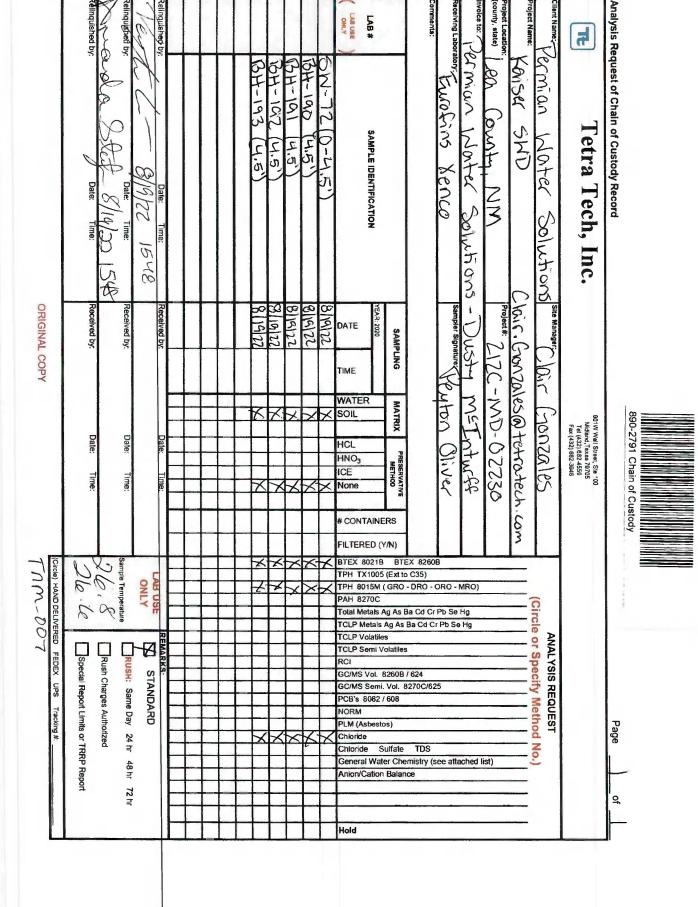
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-2791-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad Login Number: 2791 List Number: 1

Creator: Stutzman, Amanda

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.	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: 890-2791-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 08/23/22 10:32 AM

Login Number: 2791 List Number: 2

Creator: Rodriguez, Leticia

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	





ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3009-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

eurofins

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 10/1/2022 7:08:10 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Review your project results through

.....LINKS

Received by OCD: 8/29/2023 3:37:34 PM

Have a Question?

EOL



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/1/2023 3:11:42 PM

signature is intended to be the legally binding equivalent of a traditionally handwritten

This report has been electronically signed and authorized by the signatory. Electronic

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3009-1 SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-3009-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea 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**

*1 LCS/LCSD RPD exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Job ID: 890-3009-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Job ID: 890-3009-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3009-1

Receipt

The samples were received on 9/20/2022 10:22 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

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCSD 880-35620/2-A) and (880-19424-A-41-E MS). 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.

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-35018 and analytical batch 880-35120 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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.

Matrix: Solid

Lab Sample ID: 890-3009-1

Client: Tetra Tech, Inc.

Job ID: 890-3009-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-185 (13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/28/22 14:52	10/01/22 13:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/28/22 14:52	10/01/22 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				09/28/22 14:52	10/01/22 13:44	1
1,4-Difluorobenzene (Surr)	91		70 - 130				09/28/22 14:52	10/01/22 13:44	1
Method: Total BTEX - Total BTE	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/01/22 19:44	1
Method: 8015 NM - Diesel Range									
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
_		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/23/22 16:01	Dil Fac
Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier				<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0 ge Organics (D)	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	=	<u> </u>	09/23/22 16:01	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U *1	50.0		mg/Kg	=	Prepared	09/23/22 16:01 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 Ge Organics (Dige Result <50.0	Qualifier U RO) (GC) Qualifier U *1	50.0 RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 09/21/22 08:32	09/23/22 16:01 Analyzed 09/23/22 04:27	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/21/22 08:32	09/23/22 16:01 Analyzed 09/23/22 04:27 09/23/22 04:27	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/21/22 08:32 09/21/22 08:32	09/23/22 16:01 Analyzed 09/23/22 04:27 09/23/22 04:27	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/21/22 08:32 09/21/22 08:32 09/21/22 08:32 Prepared	09/23/22 16:01 Analyzed 09/23/22 04:27 09/23/22 04:27 09/23/22 04:27 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U*1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/21/22 08:32 09/21/22 08:32 09/21/22 08:32 Prepared 09/21/22 08:32	09/23/22 16:01 Analyzed 09/23/22 04:27 09/23/22 04:27 Analyzed 09/23/22 04:27	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U*1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/21/22 08:32 09/21/22 08:32 09/21/22 08:32 Prepared 09/21/22 08:32	09/23/22 16:01 Analyzed 09/23/22 04:27 09/23/22 04:27 Analyzed 09/23/22 04:27	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: BH-186 (13')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 14:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 14:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 14:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 14:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 14:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/28/22 14:52	10/01/22 14:04	

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Lab Sample ID: 890-3009-2

2

3

6

8

10

12

13

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3009-2

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3009-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-186 (13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130				09/28/22 14:52	10/01/22 14:04	1
Method: Total BTEX - Total BTE	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/01/22 19:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	84.3		49.9		mg/Kg			09/23/22 16:01	1
Total TPH Mothod: 9045P NM Discal Page		BO) (CC)	49.9		mg/Kg			09/23/22 16:01	1
Method: 8015B NM - Diesel Ranç	ge Organics (DI			MDI		n	Propared		Dil Fac
Method: 8015B NM - Diesel Ranç Analyte	ge Organics (DI	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared 09/21/22 08:32	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (DI	Qualifier		MDL		<u>D</u>	Prepared 09/21/22 08:32		Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (DI	Qualifier	RL	MDL	Unit	<u>D</u>	<u>.</u>	Analyzed	1 Dil Fac
Method: 8015B NM - Diesel Ranç Analyte	ge Organics (DI Result <49.9	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	09/21/22 08:32	Analyzed 09/23/22 04:06	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DI Result <49.9	Qualifier U *1	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	09/21/22 08:32	Analyzed 09/23/22 04:06	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (DI Result <49.9	Qualifier U *1	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 08:32 09/21/22 08:32	Analyzed 09/23/22 04:06 09/23/22 04:06	Dil Fac 1 1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DI Result <49.9 84.3 <49.9	Qualifier U *1	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 08:32 09/21/22 08:32 09/21/22 08:32	Analyzed 09/23/22 04:06 09/23/22 04:06 09/23/22 04:06	1 1

25.1

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

320

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Dil Fac

Analyzed

09/23/22 22:58

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3009-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19424-A-41-E MS	Matrix Spike	131 S1+	108	
880-19424-A-41-F MSD	Matrix Spike Duplicate	136 S1+	109	
890-3009-1	BH-185 (13')	125	91	
890-3009-2	BH-186 (13')	117	90	
LCS 880-35620/1-A	Lab Control Sample	127	104	
LCSD 880-35620/2-A	Lab Control Sample Dup	140 S1+	106	
MB 880-35620/5-A	Method Blank	107	86	
MB 880-35630/5-A	Method Blank	101	89	

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)	
380-19424-A-53-C MS	Matrix Spike	85	76	
880-19424-A-53-D MSD	Matrix Spike Duplicate	82	74	
890-3009-1	BH-185 (13')	121	111	
390-3009-2	BH-186 (13')	104	94	
_CS 880-35018/2-A	Lab Control Sample	113	105	
LCSD 880-35018/3-A	Lab Control Sample Dup	98	86	
MB 880-35018/1-A	Method Blank	105	103	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-3009-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35620/5-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35620

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	•
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 07:33	
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 07:33	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/28/2	22 14:52	10/01/22 07:33	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/28/2	22 14:52	10/01/22 07:33	1

Lab Sample ID: LCS 880-35620/1-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35620

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09300	-	mg/Kg		93	70 - 130	
Toluene	0.100	0.08450		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.09159		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1871		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.1192		mg/Kg		119	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	127	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-35620/2-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35620

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08642		mg/Kg		86	70 - 130	7	35
Toluene	0.100	0.08244		mg/Kg		82	70 - 130	2	35
Ethylbenzene	0.100	0.09331		mg/Kg		93	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1962		mg/Kg		98	70 - 130	5	35
o-Xylene	0.100	0.1206		mg/Kg		121	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130
1 4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-19424-A-41-E MS

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 35620

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.09638		mg/Kg		96	70 - 130	
Toluene	< 0.00201	U	0.101	0.08691		mg/Kg		86	70 - 130	

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Client Sample ID: Matrix Spike

70 - 130

70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

97

112

QC Sample Results

Job ID: 890-3009-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

<0.00402

<0.00201 U

Lab Sample ID: 880-19424-A-41-E MS **Matrix: Solid**

U

Prep Type: Total/NA Analysis Batch: 35744 Prep Batch: 35620 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00201 U 0.101 0.09656 mg/Kg 96 70 - 130

0.1955

0.1131

mg/Kg

mg/Kg

0.202

0.101

MS MS Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 131 1,4-Difluorobenzene (Surr) 70 - 130 108

Lab Sample ID: 880-19424-A-41-F MSD

Matrix: Solid

m-Xylene & p-Xylene

o-Xylene

Analysis Batch: 35744

Prep Batch: 35620 Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier %Rec Limits Unit Benzene <0.00201 U 0.0994 0.1013 mg/Kg 102 70 - 130 5 35 Toluene <0.00201 0.0994 0.09069 mg/Kg 91 70 - 130 4 35 Ethylbenzene <0.00201 0.0994 0.1024 103 70 - 130 35 U mg/Kg 6 35 m-Xylene & p-Xylene <0.00402 U 0.199 0.2076 mg/Kg 104 70 - 130 6 0.0994 0.1207 70 - 130 o-Xylene <0.00201 U mg/Kg 121

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 136 S1+ 70 - 130 1,4-Difluorobenzene (Surr) 109

Lab Sample ID: MB 880-35630/5-A

Analysis Batch: 35744

Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 35630 MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 16:29	09/30/22 20:58	1

	МВ	MB			
Surrogate	%Recovery	Qualifier Lim	ts Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (S	urr) 101	70 -	09/28/22 16:29	09/30/22 20:58	1
1,4-Difluorobenzene (Surr) 89	70 -	130 09/28/22 16:29	09/30/22 20:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-35018/1-A

Matrix: Solid

Analysis Batch: 35120

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 35018

мв мв Analyte Result Qualifier RL MDL Unit Prepared <50.0 U 50.0 09/21/22 08:32 09/22/22 19:31 Gasoline Range Organics mg/Kg (GRO)-C6-C10

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3009-1 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-35018/1-A

Matrix: Solid

Analysis Batch: 35120

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35018

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:32	09/22/22 19:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:32	09/22/22 19:31	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	09/21/22 08:32	09/22/22 19:31	1
o-Terphenyl	103		70 - 130	09/21/22 08:32	09/22/22 19:31	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-35018/2-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 35120 Prep Batch: 35018

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1066 107 70 - 130 mg/Kg (GRO)-C6-C10 1000 1068 Diesel Range Organics (Over mg/Kg 107 70 - 130 C10-C28)

LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 113 o-Terphenyl 105 70 - 130

Lab Sample ID: LCSD 880-35018/3-A

Matrix: Solid

Analysis Batch: 35120

Client Sample ID: Lab	Control Sample Dup
	Dren Times Total/NA

Prep Type: Total/NA Prep Batch: 35018

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	821.3	*1	mg/Kg		82	70 - 130	26	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	889.0		mg/Kg		89	70 - 130	18	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 98 70 - 130 o-Terphenyl 86 70 - 130

Lab Sample ID: 880-19424-A-53-C MS

Matrix: Solid

Analysis Batch: 35120

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 35018

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	996	826.0		mg/Kg		83	70 - 130	
Diesel Range Organics (Over	<49.9	U	996	868.7		mg/Kg		87	70 - 130	

C10-C28)

	IVIS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	76		70 - 130

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3009-1

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-19424-A-53-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 35120 Prep Batch: 35018

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	786.3		mg/Kg		79	70 - 130	5	20
Diesel Range Organics (Over	<49.9	U	999	872.5		mg/Kg		87	70 - 130	0	20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	74		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35023/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 35314

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/23/22 22:29	1

Lab Sample ID: LCS 880-35023/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 35314

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	246.3		mg/Kg		99	90 - 110	

Lab Sample ID: LCSD 880-35023/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 35314

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	247.2		mg/Kg		99	90 - 110	0	20	

Lab Sample ID: 890-3009-1 MS Client Sample ID: BH-185 (13') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 35314

	Sample	Sample	Бріке	IVIS	IVIS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	591		1240	1868		mg/Kg	_	103	90 - 110	

Lab Sample ID: 890-3009-1 MSD Client Sample ID: BH-185 (13')

Matrix: Solid

Analysis Batch: 35314

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	591		1240	1873		mg/Kg		103	90 - 110	0	20

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Prep Type: Soluble

QC Association Summary

Job ID: 890-3009-1 SDG: Lea County NM

GC VOA

Prep Batch: 35620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Total/NA	Solid	5035	
890-3009-2	BH-186 (13')	Total/NA	Solid	5035	
MB 880-35620/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35620/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35620/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19424-A-41-E MS	Matrix Spike	Total/NA	Solid	5035	
880-19424-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 35630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35630/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 35744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Total/NA	Solid	8021B	35620
890-3009-2	BH-186 (13')	Total/NA	Solid	8021B	35620
MB 880-35620/5-A	Method Blank	Total/NA	Solid	8021B	35620
MB 880-35630/5-A	Method Blank	Total/NA	Solid	8021B	35630
LCS 880-35620/1-A	Lab Control Sample	Total/NA	Solid	8021B	35620
LCSD 880-35620/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35620
880-19424-A-41-E MS	Matrix Spike	Total/NA	Solid	8021B	35620
880-19424-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35620

Analysis Batch: 35877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Total/NA	Solid	Total BTEX	
890-3009-2	BH-186 (13')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 35018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Total/NA	Solid	8015NM Prep	
890-3009-2	BH-186 (13')	Total/NA	Solid	8015NM Prep	
MB 880-35018/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35018/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35018/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19424-A-53-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19424-A-53-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35120

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Total/NA	Solid	8015B NM	35018
890-3009-2	BH-186 (13')	Total/NA	Solid	8015B NM	35018
MB 880-35018/1-A	Method Blank	Total/NA	Solid	8015B NM	35018
LCS 880-35018/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35018
LCSD 880-35018/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35018
880-19424-A-53-C MS	Matrix Spike	Total/NA	Solid	8015B NM	35018
880-19424-A-53-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35018

Eurofins Carlsbad

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

QC Association Summary

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3009-1

SDG: Lea County NM

GC Semi VOA

Analysis Batch: 35298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Total/NA	Solid	8015 NM	
890-3009-2	BH-186 (13')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Soluble	Solid	DI Leach	_
890-3009-2	BH-186 (13')	Soluble	Solid	DI Leach	
MB 880-35023/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35023/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35023/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3009-1 MS	BH-185 (13')	Soluble	Solid	DI Leach	
890-3009-1 MSD	BH-185 (13')	Soluble	Solid	DI Leach	

Analysis Batch: 35314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Soluble	Solid	300.0	35023
890-3009-2	BH-186 (13')	Soluble	Solid	300.0	35023
MB 880-35023/1-A	Method Blank	Soluble	Solid	300.0	35023
LCS 880-35023/2-A	Lab Control Sample	Soluble	Solid	300.0	35023
LCSD 880-35023/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35023
890-3009-1 MS	BH-185 (13')	Soluble	Solid	300.0	35023
890-3009-1 MSD	BH-185 (13')	Soluble	Solid	300.0	35023

Eurofins Carlsbad

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Client: Tetra Tech, Inc. Job ID: 890-3009-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-185 (13')

Date Received: 09/20/22 10:22

Lab Sample ID: 890-3009-1 Date Collected: 09/19/22 00:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35877	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35298	09/23/22 16:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35018	09/21/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/23/22 04:27	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		5			35314	09/23/22 22:44	CH	EET MID

Lab Sample ID: 890-3009-2 Client Sample ID: BH-186 (13')

Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.00 g 5 mL 35620 09/28/22 14:52 EL EET MID 8021B Total/NA 5 mL **EET MID** Analysis 1 5 mL 35744 10/01/22 14:04 MNR Total/NA Total BTEX 35877 10/01/22 19:44 Analysis 1 A.I **EET MID** Total/NA Analysis 8015 NM 35298 09/23/22 16:01 SM **EET MID** Total/NA 8015NM Prep 35018 Prep 10.03 g 10 mL 09/21/22 08:32 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 35120 09/23/22 04:06 SM **EET MID** 09/21/22 10:05 Soluble 35023 **EET MID** Leach DI Leach 4.98 g 50 mL SMC Soluble Analysis 300.0 5 35314 09/23/22 22:58 СН **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: 890-3009-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-24	06-30-23	
The following analytes	are included in this report by	it the leberatory is not contiffi	iad butba gaugeming authority. This list ma		
the agency does not of	' '	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for v	
,	' '	Matrix	Analyte	ay include analytes for v	
the agency does not of	fer certification.	•	, , ,	ay include analytes for v	

Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3009-1

Project/Site: Kaiser SWD

SDG: Lea 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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3009-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	D
890-3009-1	BH-185 (13')	Solid	09/19/22 00:00	09/20/22 10:22	13
890-3009-2	BH-186 (13')	Solid	09/19/22 00:00	09/20/22 10:22	13

	Relinquished by:	Relinquit fied by:	Relinquished by						(LABUSE)	LAB #		Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4	
	: Date: Time:	: Date: Time:	1 1 9/00/22				ВН-186 (13')	ВН-185 (13')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions	Tena Tech, mc.	Total Took Inc
OBICINIAI COBY	Received by:	Received by:	Received by:				9/19/2022	9/19/2022	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:		
	Date: Time:	Date: Time:	Date: Time: 0.20.20.20.10				×	×	WATE SOIL HCL HNO ₃ ICE None	R	MATRIX PRESERVATIVE METHOD		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Tel (432) 682-4559	SOTW WILL SIER, SE TO Midland, Texas 79705
(Circle) HAND DELIVERED	い び う 並	7	AB USE ONLY [7]	890-300			×	×	TCLP M	270C etals olatile	Y/N) BTE (Ext to (GRO-	DRO - Calculation	ORO -	Hg			ANALYSIS REQUEST		
FEDEX UPS Tracking#	Rush Charges Authonzed Special Report Limits or TRRP Report	RUSH: Same Day 24 nr 46 nr /2 nr		890-3009 Chain of Custody			×	×	PCB's NORM PLM (A Chlorid Chlorid	Vol. 8 Semi. 8082 / sbeste e S	Vol. 8 Vol. 8 608 Os)	624 270C/62 TDS emistry (tached	list)		or Specify Method No.)		
		=							Hold									: : :	

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10/1/2022

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3009-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 3009 List Number: 1 Creator: Clifton, Cloe

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.	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	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3009-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 09/21/22 11:23 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3009

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	N/A	

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<6mm (1/4").



ANALYTICAL REPORT

America

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3010-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

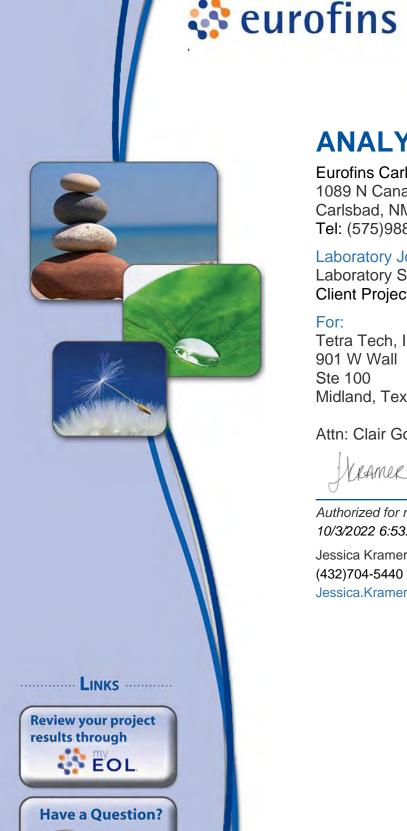
Authorized for release by: 10/3/2022 6:53:25 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Released to Imaging: 9/1/2023 3:11:42 PM

Received by OCD: 8/29/2023 3:37:34 PM

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3010-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-3010-1 Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC	VOA
Qua	lifier

*_	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

S1+

Qualifier Description

Surrogate recovery exceeds control limits, high biased. 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, RA, RE, IN

DL

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Detection Limit (DoD/DOE)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA 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

Presumptive **PRES Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-3010-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-3010-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3010-1

Receipt

The samples were received on 9/20/2022 10:22 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

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-35625 and analytical batch 880-35815 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 8021B: Surrogate recovery for the following sample was outside control limits: Trench-1 (10') (890-3010-1). 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-35172 and analytical batch 880-35220 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.

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Matrix: Solid

Job ID: 890-3010-1 SDG: Lea County NM

Client Sample ID: Trench-1 (10')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.201	U *+ *1	0.201		mg/Kg		09/29/22 16:18	10/03/22 18:54	100
Toluene	12.5	*+ *1	0.201		mg/Kg		09/29/22 16:18	10/03/22 18:54	100
Ethylbenzene	23.9	*+ *1	0.201		mg/Kg		09/29/22 16:18	10/03/22 18:54	100
m-Xylene & p-Xylene	35.1	*+ *1	0.402		mg/Kg		09/29/22 16:18	10/03/22 18:54	100
o-Xylene	14.3	*+ *1	0.201		mg/Kg		09/29/22 16:18	10/03/22 18:54	100
Xylenes, Total	49.4	*+ *1	0.402		mg/Kg		09/29/22 16:18	10/03/22 18:54	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	196	S1+	70 - 130				09/29/22 16:18	10/03/22 18:54	100
1,4-Difluorobenzene (Surr)	82		70 - 130				09/29/22 16:18	10/03/22 18:54	100
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	85.8		0.402		mg/Kg			10/02/22 08:53	1
Method: 8015 NM - Diesel Ran Analyte	Result	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	4270		49.9		mg/Kg			09/26/22 13:20	1
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	936		49.9		mg/Kg		09/22/22 11:26	09/24/22 03:48	1
Diesel Range Organics (Over C10-C28)	2930		49.9		mg/Kg		09/22/22 11:26	09/24/22 03:48	1
Oll Range Organics (Over C28-C36)	404		49.9		mg/Kg		09/22/22 11:26	09/24/22 03:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				09/22/22 11:26	09/24/22 03:48	1
o-Terphenyl	102		70 - 130				09/22/22 11:26	09/24/22 03:48	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	991		25.2		mg/Kg			09/23/22 23:03	5

Client Sample ID: Trench-2 (5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		09/28/22 16:17	10/01/22 21:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/28/22 16:17	10/01/22 21:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 16:17	10/01/22 21:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/28/22 16:17	10/01/22 21:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 16:17	10/01/22 21:30	1
Xylenes, Total	< 0.00402	U	0.00402		mg/Kg		09/28/22 16:17	10/01/22 21:30	1

Eurofins Carlsbad

Lab Sample ID: 890-3010-2

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Lab Sample ID: 890-3010-1

Matrix: Solid

Lab Sample ID: 890-3010-2

09/23/22 23:08

10

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3010-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: Trench-2 (5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 5

Chloride

wethou, 300.0 - Amons, ion Chr	omatography -	Qualifier	RL		Unit				
Method: 300.0 - Anions, Ion Chr	omotography	Solublo							
o-Terphenyl	103		70 - 130				09/22/22 11:26	09/23/22 21:40	
1-Chlorooctane	95		70 - 130				09/22/22 11:26	09/23/22 21:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/22 11:26	09/23/22 21:40	
C10-C28)									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		09/22/22 11:26	09/23/22 21:40	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/22/22 11:26	09/23/22 21:40	
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel Ran									
Total TPH	<49.9	U	49.9		mg/Kg			09/26/22 13:20	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/02/22 08:53	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: Total BTEX - Total BTE	Calculation								
1,4-Difluorobenzene (Surr)	104		70 - 130				09/28/22 16:17	10/01/22 21:30	
4-Bromofluorobenzene (Surr)	116		70 - 130				09/28/22 16:17	10/01/22 21:30	
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa

50.4

mg/Kg

4770

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3010-1

Project/Site: Kaiser SWD

SDG: Lea 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)	
880-19417-A-1-E MS	Matrix Spike	109	105	
880-19417-A-1-F MSD	Matrix Spike Duplicate	112	100	
890-3010-1	Trench-1 (10')	196 S1+	82	
890-3010-2	Trench-2 (5')	116	104	
890-3015-A-1-E MS	Matrix Spike	101	94	
890-3015-A-1-F MSD	Matrix Spike Duplicate	108	107	
LCS 880-35625/1-A	Lab Control Sample	109	100	
LCS 880-35724/1-A	Lab Control Sample	76	73	
LCSD 880-35625/2-A	Lab Control Sample Dup	104	99	
LCSD 880-35724/2-A	Lab Control Sample Dup	128	123	
MB 880-35625/5-A	Method Blank	101	114	
MB 880-35628/5-A	Method Blank	105	105	
MB 880-35692/5-A	Method Blank	99	83	
MB 880-35724/5-A	Method Blank	100	76	
Surrogate Legend				
BFB = 4-Bromofluorobei	nzene (Surr)			
DFBZ = 1,4-Difluorobena	zene (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)	
890-3010-1	Trench-1 (10')	110	102	
890-3010-2	Trench-2 (5')	95	103	
890-3010-2 MS	Trench-2 (5')	90	88	
890-3010-2 MSD	Trench-2 (5')	103	99	
LCS 880-35172/2-A	Lab Control Sample	99	105	
LCSD 880-35172/3-A	Lab Control Sample Dup	106	108	
MB 880-35172/1-A	Method Blank	120	139 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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4

6

8

4.6

13

Client: Tetra Tech, Inc. Job ID: 890-3010-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35625/5-A

Matrix: Solid Analysis Batch: 35815 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35625

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 16:17	10/01/22 20:00	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepai	red	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/28/22	16:17	10/01/22 20:00	1
1,4-Difluorobenzene (Surr)	114		70 - 130	09/28/22	16:17	10/01/22 20:00	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-35625/1-A

Matrix: Solid

Analysis Batch: 35815

Prep Type: Total/NA

Prep Batch: 35625

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.06312	*-	mg/Kg		63	70 - 130	
Toluene	0.100	0.07231		mg/Kg		72	70 - 130	
Ethylbenzene	0.100	0.07030		mg/Kg		70	70 - 130	
m-Xylene & p-Xylene	0.200	0.1471		mg/Kg		74	70 - 130	
o-Xylene	0.100	0.07531		mg/Kg		75	70 - 130	

LCS LCS

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-35625/2-A

Matrix: Solid

Analysis Batch: 35815

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 35625

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.06587	*-	mg/Kg		66	70 - 130	4	35
Toluene	0.100	0.07114		mg/Kg		71	70 - 130	2	35
Ethylbenzene	0.100	0.07179		mg/Kg		72	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1452		mg/Kg		73	70 - 130	1	35
o-Xylene	0.100	0.07431		mg/Kg		74	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-19417-A-1-E MS

Matrix: Solid

Analysis Batch: 35815

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 35625

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U *-	0.101	0.09573		mg/Kg		95	70 - 130	
Toluene	< 0.00201	U	0.101	0.09812		mg/Kg		98	70 - 130	

Job ID: 890-3010-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-19417-A-1-E MS

Lab Sample ID: 880-19417-A-1-F MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 35815

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35625

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00201 U 0.101 0.08958 89 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00402 0.201 0.1802 mg/Kg 90 70 - 130 0.101 o-Xylene <0.00201 U 0.09000 mg/Kg 89 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35625

Analysis Batch: 35815 Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits

0.0990 Benzene <0.00201 U *-0.09175 mg/Kg 93 70 - 130 4 35 Toluene <0.00201 0.0990 0.1021 mg/Kg 103 70 - 130 4 35 Ethylbenzene <0.00201 0.0990 0.1028 mg/Kg 104 70 - 130 14 35 U 0.198 0.2097 70 - 130 35 m-Xylene & p-Xylene <0.00402 U mg/Kg 106 15 0.0990 <0.00201 U 0.1043 105 70 - 130 o-Xylene mg/Kg 15

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: MB 880-35628/5-A

Matrix: Solid

Analysis Batch: 35815

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35628

MD MD

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:25	10/01/22 06:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:25	10/01/22 06:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:25	10/01/22 06:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 16:25	10/01/22 06:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:25	10/01/22 06:46	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		09/28/22 16:25	10/01/22 06:46	1

MB MB

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/28/22 16:25	10/01/22 06:46	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/28/22 16:25	10/01/22 06:46	1

Lab Sample ID: MB 880-35692/5-A

Matrix: Solid

m-Xylene & p-Xylene

Analysis Batch: 35890

Client Sample ID: Method Blank

10/02/22 22:18

09/29/22 11:56

Prep Type: Total/NA

Prep Batch: 35692

мв мв Result Qualifier Dil Fac Analyte MDL Unit Prepared RL Analyzed Benzene < 0.00200 U 0.00200 09/29/22 11:56 10/02/22 22:18 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 09/29/22 11:56 10/02/22 22:18 Ethylbenzene <0.00200 U 0.00200 mg/Kg 09/29/22 11:56 10/02/22 22:18

Eurofins Carlsbad

0.00400

mg/Kg

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QC Sample Results

Job ID: 890-3010-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-35692/5-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35692

A	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
0	-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/22 11:56	10/02/22 22:18	1
X	ylenes, Total	<0.00400	U	0.00400		mg/Kg		09/29/22 11:56	10/02/22 22:18	1

MR MR

MB MB

		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Surrogate	%Recovery Qual	ifier Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99	70 - 130	09/29/22 11:56	10/02/22 22:18	1	
1,4-Difluorobenzene (Surr)	83	70 - 130	09/29/22 11:56	10/02/22 22:18	1	

Lab Sample ID: MB 880-35724/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 35890

мв мв

Prep Type: Total/NA

Prep Batch: 35724

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 0.00200 09/29/22 16:18 10/03/22 08:58 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 09/29/22 16:18 10/03/22 08:58 10/03/22 08:58 Ethylbenzene <0.00200 U 0.00200 mg/Kg 09/29/22 16:18 m-Xylene & p-Xylene <0.00400 U 0.00400 09/29/22 16:18 10/03/22 08:58 mg/Kg 10/03/22 08:58 o-Xylene <0.00200 U 0.00200 mg/Kg 09/29/22 16:18 <0.00400 U 0.00400 09/29/22 16:18 10/03/22 08:58 Xylenes, Total mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/29/22 16:18	10/03/22 08:58	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/29/22 16:18	10/03/22 08:58	1

Lab Sample ID: LCS 880-35724/1-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35724

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07829		mg/Kg		78	70 - 130	
Toluene	0.100	0.08089		mg/Kg		81	70 - 130	
Ethylbenzene	0.100	0.07734		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	0.200	0.1621		mg/Kg		81	70 - 130	
o-Xylene	0.100	0.08300		mg/Kg		83	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	76	70 - 130
1,4-Difluorobenzene (Surr)	73	70 - 130

Lab Sample ID: LCSD 880-35724/2-A

Matrix: Solid

o-Xylene

Analysis Batch: 35890

Client Sample ID: Lab Control Sample Dup

70 - 130

142

Prep Type: Total/NA

Prep Batch: 35724

Spike LCSD LCSD RPD %Rec Analyte babbA Result Qualifier Limits RPD Limit Unit %Rec Benzene 0.100 0.1318 *+ *1 mg/Kg 132 70 - 130 51 35 Toluene 0.100 0.1408 *+ *1 mg/Kg 141 70 - 130 35 54 Ethylbenzene 0.100 0.1312 *+ *1 mg/Kg 131 70 - 130 52 35 m-Xylene & p-Xylene 0.200 0.2759 *+ *1 mg/Kg 138 70 - 130 52 35

0.1422 *+ *1

mg/Kg

Eurofins Carlsbad

53

35

0.100

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3010-1 SDG: Lea County NM

Client Sample ID: Matrix Spike Duplicate

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: 890-3015-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Prep Batch: 35724 Analysis Batch: 35890

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *+ *1	0.0998	0.09073		mg/Kg		91	70 - 130	
Toluene	<0.00200	U *+ *1	0.0998	0.09593		mg/Kg		96	70 - 130	
Ethylbenzene	<0.00200	U *+ *1	0.0998	0.08487		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.200	0.1756		mg/Kg		88	70 - 130	
o-Xylene	<0.00200	U *+ *1	0.0998	0.09418		mg/Kg		94	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 101

1,4-Difluorobenzene (Surr) 94 70 - 130

Lab Sample ID: 890-3015-A-1-F MSD

Matrix: Solid

Prep Type: Total/NA Prep Batch: 35724 **Analysis Batch: 35890**

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U *+ *1	0.0990	0.09916		mg/Kg		100	70 - 130	9	35
Toluene	<0.00200	U *+ *1	0.0990	0.1009		mg/Kg		102	70 - 130	5	35
Ethylbenzene	<0.00200	U *+ *1	0.0990	0.08894		mg/Kg		90	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.198	0.1820		mg/Kg		92	70 - 130	4	35
o-Xylene	<0.00200	U *+ *1	0.0990	0.09773		mg/Kg		99	70 - 130	4	35

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 4-Bromofluorobenzene (Surr) 108 1,4-Difluorobenzene (Surr) 107

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-35172/1-A

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ab Sample ID: MB 880-35172/1-A	Client Sample ID: Method Blank
atrix: Solid	Prep Type: Total/NA
nalysis Batch: 35220	Prep Batch: 35172
MB MB	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1
	MR	MR							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	09/22/22 11:26	09/23/22 20:35	1
o-Terphenyl	139	S1+	70 - 130	09/22/22 11:26	09/23/22 20:35	1

Client: Tetra Tech, Inc. Job ID: 890-3010-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-35172/2-A

Matrix: Solid Analysis Batch: 35220 Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 35172

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 960.3 mg/Kg 96 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over 891.9 mg/Kg 89 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	105		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35172

Analysis Batch: 35220

Lab Sample ID: LCSD 880-35172/3-A

Matrix: Solid

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	960.5		mg/Kg		96	70 - 130	0	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	951.2		mg/Kg		95	70 - 130	6	20	
C10-C28)										

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 _ 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 890-3010-2 MS

Matrix: Solid

Analysis Batch: 35220

Client Sample	ID:	Trench-2	(5')
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Prep Type: Total/NA

Prep Batch: 35172

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	887.9		mg/Kg		87	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	996	998.1		mg/Kg		100	70 - 130	

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 890-3010-2 MSD

Matrix: Solid

Analysis Batch: 35220

Client Sample	ID: Trench-2 (5')
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Prep Type: Total/NA

Prep Batch: 35172

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1050		mg/Kg		103	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1135		mg/Kg		114	70 - 130	13	20

MSD MSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 103

Job ID: 890-3010-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MSD MSD

Lab Sample ID: 890-3010-2 MSD

Matrix: Solid

Analysis Batch: 35220

Client Sample ID: Trench-2 (5')

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Total/NA

Prep Batch: 35172

Prep Type: Soluble

%Recovery Qualifier

Surrogate o-Terphenyl 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35023/1-A

Matrix: Solid

Analysis Batch: 35314

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Chloride <5.00 5.00 09/23/22 22:29 U mg/Kg

Limits

Lab Sample ID: LCS 880-35023/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 35314

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit D %Rec Limits Chloride 250 246.3 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-35023/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 35314

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 247.2 90 - 110 mg/Kg 20

Lab Sample ID: 890-3009-A-1-C MS

Matrix: Solid

Analysis Batch: 35314

Spike MS MS %Rec Sample Sample Analyte Qualifier Added Qualifier Unit %Rec Result Result Limits Chloride 591 1240 1868 103 90 - 110 mg/Kg

Lab Sample ID: 890-3009-A-1-D MSD

Matrix: Solid

Analysis Batch: 35314

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Qualifier Limits RPD Limit Analyte Result Unit %Rec Chloride 1240 103 591 90 - 110 20 1873 mg/Kg

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QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-3010-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 35625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-2	Trench-2 (5')	Total/NA	Solid	5035	
MB 880-35625/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35625/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35625/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19417-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-19417-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 35628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35628/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 35692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35692/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 35724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Total/NA	Solid	5035	
MB 880-35724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3015-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3015-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 35815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-2	Trench-2 (5')	Total/NA	Solid	8021B	35625
MB 880-35625/5-A	Method Blank	Total/NA	Solid	8021B	35625
MB 880-35628/5-A	Method Blank	Total/NA	Solid	8021B	35628
LCS 880-35625/1-A	Lab Control Sample	Total/NA	Solid	8021B	35625
LCSD 880-35625/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35625
880-19417-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	35625
880-19417-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35625

Analysis Batch: 35881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Total/NA	Solid	Total BTEX	
890-3010-2	Trench-2 (5')	Total/NA	Solid	Total BTEX	

Analysis Batch: 35890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Total/NA	Solid	8021B	35724
MB 880-35692/5-A	Method Blank	Total/NA	Solid	8021B	35692
MB 880-35724/5-A	Method Blank	Total/NA	Solid	8021B	35724
LCS 880-35724/1-A	Lab Control Sample	Total/NA	Solid	8021B	35724
LCSD 880-35724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35724
890-3015-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	35724
890-3015-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35724

Eurofins Carlsbad

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QC Association Summary

Client: Tetra Tech, Inc. Job ID: 890-3010-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA

Prep Batch: 35172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Total/NA	Solid	8015NM Prep	
890-3010-2	Trench-2 (5')	Total/NA	Solid	8015NM Prep	
MB 880-35172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3010-2 MS	Trench-2 (5')	Total/NA	Solid	8015NM Prep	
890-3010-2 MSD	Trench-2 (5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Total/NA	Solid	8015B NM	35172
890-3010-2	Trench-2 (5')	Total/NA	Solid	8015B NM	35172
MB 880-35172/1-A	Method Blank	Total/NA	Solid	8015B NM	35172
LCS 880-35172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35172
LCSD 880-35172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35172
890-3010-2 MS	Trench-2 (5')	Total/NA	Solid	8015B NM	35172
890-3010-2 MSD	Trench-2 (5')	Total/NA	Solid	8015B NM	35172

Analysis Batch: 35412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Total/NA	Solid	8015 NM	
890-3010-2	Trench-2 (5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Soluble	Solid	DI Leach	
890-3010-2	Trench-2 (5')	Soluble	Solid	DI Leach	
MB 880-35023/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35023/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35023/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3009-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3009-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 35314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Soluble	Solid	300.0	35023
890-3010-2	Trench-2 (5')	Soluble	Solid	300.0	35023
MB 880-35023/1-A	Method Blank	Soluble	Solid	300.0	35023
LCS 880-35023/2-A	Lab Control Sample	Soluble	Solid	300.0	35023
LCSD 880-35023/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35023
890-3009-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	35023
890-3009-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35023

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-3010-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: Trench-1 (10')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Lab Sample ID: 890-3010-1

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35724	09/29/22 16:18	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	35890	10/03/22 18:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35881	10/02/22 08:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35412	09/26/22 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 03:48	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		5			35314	09/23/22 23:03	CH	EET MID

Client Sample ID: Trench-2 (5') Lab Sample ID: 890-3010-2

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/01/22 21:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35881	10/02/22 08:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35412	09/26/22 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/23/22 21:40	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		10			35314	09/23/22 23:08	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: 890-3010-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
exas		ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for w
the agency does not of	fer certification.	,	ou s, and governming dualismy.	ay molado analytoo for v
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	ay morado anarytoo tor v
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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3010-1

Project/Site: Kaiser SWD

SDG: Lea 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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3010-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3010-1	Trench-1 (10')	Solid	09/19/22 00:00	09/20/22 10:22	10
890-3010-2	Trench-2 (5')	Solid	09/19/22 00:00	09/20/22 10:22	5

Relinquished by:	Relinquished by	Tay of						(LAB USE	LAB#		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name;	त्न
y: Date: lime:	Date:	12 9/20/22				Trench-2 (5')	Trench-1 (10')		SAMPLE IDENTIFICATION			ratory: Eurofins Xenco	Permian Water Solutions - Dusty McInturff	n: Lea County, NM	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
Received by:	Received by:	Chris Coll	Doorwood hu:			9/19/2022	9/19/2022	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
Date		છ	Date:			×		WATE SOIL HCL HNO		MATRIX PRESERVATIVE METHOD		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
inie.		99	me			×	×		RED (ERS Y/N)	X 8260			0	in In		
Circle) HAND DELIVERED	Sample Temperature	LAB USE ONLY	E	890-3010		×	上	TPH TPH 8 PAH 8 Total N TCLP	X1005 015M (3270C Metals / Metals	(GRO Ag As E		ORO - I	Hg			ANALYSIS REQUEST	
a 🗆	Rush Charges Authorized	X STANDARD	REMARKS:	Chain of Custody				TCLP RCI GC/M: GC/M: PCB's	S Vol. 1 S Semi. 80827	olatiles 8260B / . Vol. 8		5				r Specify	
Special Report Limits or TRRP Report DEX UPS Tracking #	Authorized		11111			×	×	Chlori Chlori Gene	Asbest de de S al Wat	Sulfate	TDS emistry (see att	ached l	list)		Wethod No.)	
			E					Hold									

Page 20 of 22

Creator: Clifton, Cloe

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-3010-1 SDG Number: Lea County NM

Login Number: 3010 List Source: Eurofins Carlsbad List Number: 1

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.	N/A	

True

N/A

<6mm (1/4").

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

10/3/2022

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3010-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Source: Eurotins Midiand
List Creation: 09/21/22 11:23 AM

Login Number: 3010 List Number: 2

Creator: Rodriguez, Leticia

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	N/A	

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Eurofins Carlsbad

<6mm (1/4").



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Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3011-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 10/3/2022 6:54:20 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3011-1 SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC VOA Qualifier

*_	LCS and/or LCSD is outside acceptance limits, low biased.
*+	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.

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
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit MI 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 Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-3011-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3011-1

Receipt

The samples were received on 9/20/2022 10:22 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

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-35621 and analytical batch 880-35814 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 8021B: Surrogate recovery for the following samples were outside control limits: BH-195 (8') (890-3011-12), BH-200 (4.5') (890-3011-17) and BH-201 (4.5') (890-3011-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-35625 and analytical batch 880-35815 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 8021B: Surrogate recovery for the following sample was outside control limits: BH-206 (4.5') (890-3011-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-205 (4.5') (890-3011-22). 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-35103 and analytical batch 880-35007 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-74 (8-13') (890-3011-28). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-35262 and analytical batch 880-35322 was outside the upper control limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-35172 and analytical batch 880-35220 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.

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Lab Sample ID: 890-3011-1

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: H-1 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 06:49	
Toluene	<0.00199	U *-	0.00199		mg/Kg		09/28/22 14:59	10/01/22 06:49	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 06:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 06:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 06:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 06:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				09/28/22 14:59	10/01/22 06:49	
1,4-Difluorobenzene (Surr)	95		70 - 130				09/28/22 14:59	10/01/22 06:49	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Range			D.			_			5115
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/23/22 12:25	
Analyte	Result <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9 ge Organics (Di	Qualifier U				<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			09/23/22 12:25	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	09/23/22 12:25 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D) Result <49.9 49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 20:34	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 08:45 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 20:34 09/22/22 20:34	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared	09/23/22 12:25 Analyzed 09/22/22 20:34 09/22/22 20:34 09/22/22 20:34 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 08:45 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 20:34 09/22/22 20:34	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 20:34 09/22/22 20:34 Analyzed 09/22/22 20:34	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 20:34 09/22/22 20:34 Analyzed 09/22/22 20:34	Dil Face Dil Face 1 Dil Face 1 Dil Face 1 Dil Face 1 Dil Face

Client Sample ID: H-2 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 07:16	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 14:59	10/01/22 07:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 07:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/28/22 14:59	10/01/22 07:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 07:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/28/22 14:59	10/01/22 07:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				09/28/22 14:59	10/01/22 07:16	1

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Lab Sample ID: 890-3011-2

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Matrix: Solid

Lab Sample ID: 890-3011-2

09/22/22 08:45 09/22/22 21:39

Lab Sample ID: 890-3011-3

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: H-2 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compou	unds (GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99	70 - 130	09/28/22 14:59	10/01/22 07:16	1

Method: Tot	al BTEX - Tota	al BTEX Ca	alculation
mounou. Tot	u. D. L		aiouiutioii

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/01/22 19:48	1

ı		
ı	Method: 8015 NM - Diesel Range Organics (DRO)	(CC)
ı	Method. 0013 NM - Diesel Kange Organics (DKO)	(00)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/23/22 12:25	1

Mothod: 901ED	NM Diocol	Pango Ore	aniec /	DBO	(CC)
Method: 8015B	MINI - DIESEI	Range Org	janics (DRO	(GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 21:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 21:39	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 21:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				09/22/22 08:45	09/22/22 21:39	1

1-Chlorooctane	86	70 - 130
o-Terphenyl	94	70 - 130

Method: 300.0 - Anions, Ion Chromatography - Soluble											
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	20.1		5.00		mg/Kg			09/23/22 23:27	1	

Client Sample ID: H-3 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Mothod: 0024D	Valatila	Organia	Compoundo	(CC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 07:42	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		09/28/22 14:59	10/01/22 07:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 07:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 07:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 07:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 07:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				09/28/22 14:59	10/01/22 07:42	1
1,4-Difluorobenzene (Surr)	96		70 - 130				09/28/22 14:59	10/01/22 07:42	1

Method: Tota	I BTEX -	Total BTEX	Calculation
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/22 19:48	1

Analyte		Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		<50.0	U	50.0		mg/Kg			09/23/22 12:25	1

Lab Sample ID: 890-3011-3

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: H-3 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 22:00	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 22:00	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				09/22/22 08:45	09/22/22 22:00	1
o-Terphenyl	118		70 - 130				09/22/22 08:45	09/22/22 22:00	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.3		5.00		mg/Kg			09/23/22 23:32	1

Client Sample ID: H-4 (0-2')

Date Collected: 09/19/22 00:00

Lab Sample ID: 890-3011-4

Matrix: Solid

Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:08	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/28/22 14:59	10/01/22 08:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/28/22 14:59	10/01/22 08:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				09/28/22 14:59	10/01/22 08:08	1
1,4-Difluorobenzene (Surr)	91		70 - 130				09/28/22 14:59	10/01/22 08:08	1
Method: 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			10/01/22 19:48	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		09/22/22 08:45	09/22/22 22:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 22:22	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				09/22/22 08:45	09/22/22 22:22	1
o-Terphenyl	115		70 - 130				09/22/22 08:45	09/22/22 22:22	1

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Lab Sample ID: 890-3011-4

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: H-4 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	27.5		5.00		mg/Kg			09/23/22 23:37	1	

Client Sample ID: H-5 (0-2') Lab Sample ID: 890-3011-5 Matrix: Solid

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:35	
Toluene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:35	,
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:35	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 08:35	
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:35	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 08:35	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	116		70 - 130				09/28/22 14:59	10/01/22 08:35	
1,4-Difluorobenzene (Surr)	95		70 - 130				09/28/22 14:59	10/01/22 08:35	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/01/22 19:48	•
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		09/22/22 08:45	09/22/22 22:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 22:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 22:43	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	95		70 - 130				09/22/22 08:45	09/22/22 22:43	1
o-Terphenyl	104		70 - 130				09/22/22 08:45	09/22/22 22:43	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-3011-6

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: H-6 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:59	10/01/22 09:01	
Toluene	<0.00201	U *-	0.00201		mg/Kg		09/28/22 14:59	10/01/22 09:01	•
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:59	10/01/22 09:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/28/22 14:59	10/01/22 09:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:59	10/01/22 09:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/28/22 14:59	10/01/22 09:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/28/22 14:59	10/01/22 09:01	1
1,4-Difluorobenzene (Surr)	95		70 - 130				09/28/22 14:59	10/01/22 09:01	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/22 19:48	1
: Method: 8015 NM - Diesel Range	e Organics (DR		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
: Method: 8015 NM - Diesel Range	e Organics (DR								
• •	e Organics (DR	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/23/22 12:25	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR) Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR Result <50.0	Qualifier U RO) (GC)	50.0		mg/Kg	=	· ·	09/23/22 12:25	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	e Organics (DR Result <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier	50.0	MDL MDL	mg/Kg	<u>D</u>	Prepared	09/23/22 12:25 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	e Organics (DR Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	=	· ·	09/23/22 12:25	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR Result <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg Unit mg/Kg	=	Prepared	09/23/22 12:25 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	e Organics (DR Result <50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg	=	Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 23:05	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result <50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 23:05	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/22/22 08:45 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 23:05 09/22/22 23:05	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	e Organics (DR Result <50.0 ge Organics (Di Result <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/22/22 08:45 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 23:05 09/22/22 23:05	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	e Organics (DR Result <50.0 ge Organics (DR Result <50.0 <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared	09/23/22 12:25 Analyzed 09/22/22 23:05 09/22/22 23:05 09/22/22 23:05 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	e Organics (DR/Result < 50.0 ge Organics (D/Result < 50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 23:05 09/22/22 23:05 Analyzed 09/22/22 23:05	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	e Organics (DR Result <50.0 ge Organics (D Result <50.0 <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	=	Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 23:05 09/22/22 23:05 Analyzed 09/22/22 23:05	Dil Fac

Client Sample ID: H-7 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 09:37	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		09/28/22 14:59	10/01/22 09:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 09:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 09:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 09:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 09:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/28/22 14:59	10/01/22 09:37	1

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Lab Sample ID: 890-3011-7

Matrix: Solid

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Lab Sample ID: 890-3011-7

Lab Sample ID: 890-3011-8

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-3011-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: H-7 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
modification totaling organic compa	Julius (33)	(Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88	70 - 130	09/28/22 14:59	10/01/22 09:37	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg		_	10/01/22 19:48	1

 -		
Method: 8015 NM - Diesel Range Organics ((DRO)	(GC)
motified of the Piccol Range Organics	(5.10)	(00)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/23/22 12:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/22/22 23:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/22/22 23:26	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/22/22 23:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88	70 - 130	09/22/22 08:4	5 09/22/22 23:26	1
o-Terphenyl	93	70 - 130	09/22/22 08:4	5 09/22/22 23:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifi		MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.7	5.03	mg/Kg			09/23/22 23:52	1

Client Sample ID: BH-191 (8')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 8

Method: 8021B -	Volatile Organic	c Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 10:04	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 14:59	10/01/22 10:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 10:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/28/22 14:59	10/01/22 10:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 10:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/28/22 14:59	10/01/22 10:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/28/22 14:59	10/01/22 10:04	1
1,4-Difluorobenzene (Surr)	90		70 - 130				09/28/22 14:59	10/01/22 10:04	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg		_	10/01/22 19:48	1

Method. 0013 MM - Dieser Kange Organics (DRO) (GC)	Method: 8015 NM - Die	esel Range C	Organics (DRO)	(GC)
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	94.3	50.0	mg/Kg			09/23/22 12:25	1

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Lab Sample ID: 890-3011-8

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-191 (8')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/23/22 02:18	1
Diesel Range Organics (Over C10-C28)	94.3		50.0		mg/Kg		09/22/22 08:45	09/23/22 02:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/23/22 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				09/22/22 08:45	09/23/22 02:18	1
o-Terphenyl	119		70 - 130				09/22/22 08:45	09/23/22 02:18	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		4.99		mg/Kg			09/24/22 00:07	1

Lab Sample ID: 890-3011-9 Client Sample ID: BH-192 (8') Date Collected: 09/19/22 00:00 Matrix: Solid

Date Received: 09/20/22 10:22

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 10:30	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		09/28/22 14:59	10/01/22 10:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 10:30	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/28/22 14:59	10/01/22 10:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 10:30	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/28/22 14:59	10/01/22 10:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				09/28/22 14:59	10/01/22 10:30	1
1,4-Difluorobenzene (Surr)	99		70 - 130				09/28/22 14:59	10/01/22 10:30	1
Method: 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			10/01/22 19:48	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		09/22/22 08:45	09/22/22 23:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 23:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				09/22/22 08:45	09/22/22 23:47	1
o-Terphenyl	92		70 - 130				09/22/22 08:45	09/22/22 23:47	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1

SDG: Lea County NM

Client Sample ID: BH-192 (8')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 8

Lab Sample ID: 890-3011-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		4.99		mg/Kg			09/24/22 00:12	1

Client Sample ID: BH-193 (8') Lab Sample ID: 890-3011-10

Date Collected: 09/19/22 00:00 Matrix: Solid

Date Received: 09/20/22 10:22

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:59	10/01/22 10:57	
Toluene	<0.00201	U *-	0.00201		mg/Kg		09/28/22 14:59	10/01/22 10:57	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:59	10/01/22 10:57	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/28/22 14:59	10/01/22 10:57	
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:59	10/01/22 10:57	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/28/22 14:59	10/01/22 10:57	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	123		70 - 130				09/28/22 14:59	10/01/22 10:57	
1,4-Difluorobenzene (Surr)	91		70 - 130				09/28/22 14:59	10/01/22 10:57	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/22 19:48	•
Method: 8015 NM - Diesel Range	•					_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	64.0		50.0		mg/Kg			09/23/22 12:25	,
Method: 8015B NM - Diesel Rang	•								
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/23/22 01:56	,
Diesel Range Organics (Over C10-C28)	64.0		50.0		mg/Kg		09/22/22 08:45	09/23/22 01:56	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/23/22 01:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	88		70 - 130				09/22/22 08:45	09/23/22 01:56	
o-Terphenyl	94		70 - 130				09/22/22 08:45	09/23/22 01:56	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			4.96		mg/Kg			09/24/22 00:26	

Lab Sample ID: 890-3011-11

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-194 (8')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 12:42	
Toluene	< 0.00199	U *-	0.00199		mg/Kg		09/28/22 14:59	10/01/22 12:42	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 12:42	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 12:42	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 12:42	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 12:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				09/28/22 14:59	10/01/22 12:42	
1,4-Difluorobenzene (Surr)	92		70 - 130				09/28/22 14:59	10/01/22 12:42	
Method: Total BTEX - Total BTE	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/22 19:48	
Analyte	Result	O) (GC) Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed 09/23/22 12:25	
Method: 8015 NM - Diesel Rang Analyte Total TPH	Result 986	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/23/22 12:25	
Analyte Fotal TPH Method: 8015B NM - Diesel Rai	Result 986 nge Organics (D	Qualifier RO) (GC)	49.9		mg/Kg	-		09/23/22 12:25	
Analyte Fotal TPH Method: 8015B NM - Diesel Rai Analyte	Result 986 nge Organics (Di	Qualifier RO) (GC) Qualifier	49.9	MDL	mg/Kg Unit	<u>D</u>	Prepared	09/23/22 12:25 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics	Result 986 nge Organics (D	Qualifier RO) (GC) Qualifier	49.9		mg/Kg	-		09/23/22 12:25	Dil Fa
Analyte Fotal TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Result 986 nge Organics (Di	Qualifier RO) (GC) Qualifier	49.9		mg/Kg Unit	-	Prepared	09/23/22 12:25 Analyzed	Dil Fa
Analyte	Result 986 nge Organics (Di Result <49.9	Qualifier RO) (GC) Qualifier	49.9 RL 49.9		mg/Kg Unit mg/Kg	-	Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/23/22 02:40	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result 986	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	-	Prepared 09/22/22 08:45 09/22/22 08:45	09/23/22 12:25 Analyzed 09/23/22 02:40 09/23/22 02:40	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	Result 986 nge Organics (Di Result <49.9 817	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	-	Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45	09/23/22 12:25 Analyzed 09/23/22 02:40 09/23/22 02:40 09/23/22 02:40	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 986	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	-	Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared	09/23/22 12:25 Analyzed 09/23/22 02:40 09/23/22 02:40 09/23/22 02:40 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 986	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	-	Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/23/22 02:40 09/23/22 02:40 Analyzed 09/23/22 02:40	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 986	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	-	Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/23/22 02:40 09/23/22 02:40 Analyzed 09/23/22 02:40	Dil Fac

Client Sample ID: BH-195 (8')

Date Collected: 09/19/22 00:00

Lab Sample ID: 890-3011-12

Matrix: Solid

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 13:08	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		09/28/22 14:59	10/01/22 13:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 13:08	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/28/22 14:59	10/01/22 13:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 13:08	1
Xylenes, Total	< 0.00397	U	0.00397		mg/Kg		09/28/22 14:59	10/01/22 13:08	1

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Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-195 (8')

Lab Sample ID: 890-3011-12 Date Collected: 09/19/22 00:00 **Matrix: Solid** Date Received: 09/20/22 10:22

Sample Depth: 8

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	120		70 - 130				09/28/22 14:59	10/01/22 13:08	
1,4-Difluorobenzene (Surr)	9	S1-	70 - 130				09/28/22 14:59	10/01/22 13:08	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/01/22 19:48	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH Method: 8015B NM - Diesel Ranç	• • •	RO) (GC)	49.9		mg/Kg			09/23/22 12:25	
Total TPH	<49.9	U	49.9		mg/Kg			09/23/22 12:25	
Method: 8015B NM - Diesel Ranç Analyte	ge Organics (DI	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared 09/22/22 08:45	Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (DI	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 09/22/22 08:45		Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (DI	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fa
Method: 8015B NM - Diesel Ranç Analyte	ge Organics (DI Result <49.9	RO) (GC) Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	09/22/22 08:45	Analyzed 09/23/22 00:09	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (DI Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u> </u>	09/22/22 08:45	Analyzed 09/23/22 00:09	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DI Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/22/22 08:45 09/22/22 08:45	Analyzed 09/23/22 00:09 09/23/22 00:09	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DI Result <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/22/22 08:45 09/22/22 08:45 09/22/22 08:45	Analyzed 09/23/22 00:09 09/23/22 00:09 09/23/22 00:09	

Client Sample ID: BH-196 (4.5') Lab Sample ID: 890-3011-13 **Matrix: Solid**

RL

5.05

Result Qualifier

34.5

<49.8 U

MDL Unit

mg/Kg

mg/Kg

D

Prepared

Analyzed

09/24/22 00:36

Dil Fac

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				09/28/22 14:59	10/01/22 13:34	1
1,4-Difluorobenzene (Surr)	90		70 - 130				09/28/22 14:59	10/01/22 13:34	1
Method: Total BTEX - Total BT	ΓEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/01/22 19:48	1
- Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
	'	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

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09/23/22 12:25

49.8

Total TPH

Lab Sample ID: 890-3011-13

09/24/22 00:41

Matrix: Solid

Lab Sample ID: 890-3011-14

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-196 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

			RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 00:30	1
GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 00:30	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				09/22/22 08:45	09/23/22 00:30	1
o-Terphenyl	102		70 - 130				09/22/22 08:45	09/23/22 00:30	1

25.2

mg/Kg

1110

Client Sample ID: BH-197 (4.5')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 4.5

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:00	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/28/22 14:59	10/01/22 14:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/28/22 14:59	10/01/22 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				09/28/22 14:59	10/01/22 14:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130				09/28/22 14:59	10/01/22 14:00	1
Method: 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			10/01/22 19:48	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	96.5		50.0		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (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		09/22/22 08:45	09/23/22 03:01	1
Diesel Range Organics (Over C10-C28)	96.5		50.0		mg/Kg		09/22/22 08:45	09/23/22 03:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/23/22 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				09/22/22 08:45	09/23/22 03:01	1
o-Terphenyl	111		70 ₋ 130				09/22/22 08:45	09/23/22 03:01	1

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13

H

Lab Sample ID: 890-3011-14

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

Client Sample ID: BH-197 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1710		24.9		mg/Kg			09/24/22 00:46	5	

Client Sample ID: BH-198 (4.5') Lab Sample ID: 890-3011-15 Matrix: Solid

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 14:26	
Toluene	<0.00202	U *-	0.00202		mg/Kg		09/28/22 14:59	10/01/22 14:26	•
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 14:26	•
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/28/22 14:59	10/01/22 14:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 14:26	
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/28/22 14:59	10/01/22 14:26	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	121		70 - 130				09/28/22 14:59	10/01/22 14:26	
1,4-Difluorobenzene (Surr)	94		70 - 130				09/28/22 14:59	10/01/22 14:26	:
· Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 01:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 01:13	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				09/22/22 08:45	09/23/22 01:13	1
o-Terphenyl	95		70 - 130				09/22/22 08:45	09/23/22 01:13	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4900		25.0		mg/Kg	_		09/24/22 00:51	- 5

Lab Sample ID: 890-3011-16

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-199 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:52	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/28/22 14:59	10/01/22 14:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/28/22 14:59	10/01/22 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				09/28/22 14:59	10/01/22 14:52	1
1,4-Difluorobenzene (Surr)	93		70 - 130				09/28/22 14:59	10/01/22 14:52	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (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		09/22/22 08:45	09/23/22 01:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/23/22 01:35	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/23/22 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				09/22/22 08:45	09/23/22 01:35	1
o-Terphenyl	100		70 - 130				09/22/22 08:45	09/23/22 01:35	1
-									
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chro Analyte	•	Soluble Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-200 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3011-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0201	U	0.0201		mg/Kg		09/28/22 14:59	10/01/22 16:10	10
Toluene	<0.0201	U *-	0.0201		mg/Kg		09/28/22 14:59	10/01/22 16:10	10
Ethylbenzene	0.0529		0.0201		mg/Kg		09/28/22 14:59	10/01/22 16:10	10
m-Xylene & p-Xylene	0.116		0.0402		mg/Kg		09/28/22 14:59	10/01/22 16:10	10
o-Xylene	<0.0201	U	0.0201		mg/Kg		09/28/22 14:59	10/01/22 16:10	10
Xylenes, Total	0.116		0.0402		mg/Kg		09/28/22 14:59	10/01/22 16:10	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				09/28/22 14:59	10/01/22 16:10	10

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-200 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-17

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87	70 - 130	09/28/22 14:59	10/01/22 16:10	10

Method: Total BTEX - Total BTEX C	Calculation								
Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.169		0.0402	1	mg/Kg			10/01/22 19:48	

Method: 8015 NM - Diesel Range (Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2290	50.0	mg/Kg			09/23/22 12:25	1

Analyte	Result Q	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0 U	50.0	mg/Kg		09/22/22 08:45	09/23/22 03:23	1
Diesel Range Organics (Over C10-C28)	2020	50.0	mg/Kg		09/22/22 08:45	09/23/22 03:23	1
Oll Range Organics (Over C28-C36)	267	50.0	mg/Kg		09/22/22 08:45	09/23/22 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	09/22/22 08:45	09/23/22 03:23	1
o-Terphenyl	90		70 - 130	09/22/22 08:45	09/23/22 03:23	1

Method: 300.0 - Anions, Ion Chrom	natography - Solub	ole					
Analyte	Result Qualit	fier RL	MDL U	Init D	Prepared	Analyzed	Dil Fac
Chloride	3220	25.1	m	ng/Kg		09/23/22 19:57	5

Client Sample ID: BH-201 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Total BTEX

REMOVED FROM
ANALYSIS TABLE

1.78

Lab Sample ID: 890-3011-18

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0230		0.0200		mg/Kg		09/28/22 14:59	10/01/22 16:36	10
Toluene	<0.0200	U *-	0.0200		mg/Kg		09/28/22 14:59	10/01/22 16:36	10
Ethylbenzene	0.374		0.0200		mg/Kg		09/28/22 14:59	10/01/22 16:36	10
m-Xylene & p-Xylene	1.01		0.0399		mg/Kg		09/28/22 14:59	10/01/22 16:36	10
o-Xylene	0.368		0.0200		mg/Kg		09/28/22 14:59	10/01/22 16:36	10
Xylenes, Total	1.38		0.0399		mg/Kg		09/28/22 14:59	10/01/22 16:36	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	230	S1+	70 - 130				09/28/22 14:59	10/01/22 16:36	10
1,4-Difluorobenzene (Surr)	98		70 - 130				09/28/22 14:59	10/01/22 16:36	10
- Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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10/01/22 19:48

0.0399

mg/Kg

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-201 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-18

Lab Sample ID: 890-3011-19

Matrix: Solid

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2040		49.9		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	117		49.9		mg/Kg		09/22/22 08:45	09/23/22 03:44	1
Diesel Range Organics (Over C10-C28)	1690		49.9		mg/Kg		09/22/22 08:45	09/23/22 03:44	1
Oll Range Organics (Over C28-C36)	234		49.9		mg/Kg		09/22/22 08:45	09/23/22 03:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				09/22/22 08:45	09/23/22 03:44	1
o-Terphenyl	94		70 - 130				09/22/22 08:45	09/23/22 03:44	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3480		24.8		mg/Kg			09/23/22 20:11	5

Client Sample ID: BH-202 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 15:18	1
Toluene	< 0.00199	U *-	0.00199		mg/Kg		09/28/22 14:59	10/01/22 15:18	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 15:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 15:18	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 15:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 15:18	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				09/28/22 14:59	10/01/22 15:18	1
1,4-Difluorobenzene (Surr)	94		70 - 130				09/28/22 14:59	10/01/22 15:18	1
Method: Total BTEX - Total BTEX Analyte Total BTEX		Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/01/22 19:48	
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range	Result <0.00398 Organics (DR	U (GC)	0.00398		mg/Kg		<u> </u>	10/01/22 19:48	
Method: Total BTEX - Total BTEX Analyte Total BTEX	Result <0.00398 Organics (DR	O) (GC) Qualifier				<u>D</u>	Prepared Prepared		Dil Fa
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Result <0.00398 Organics (DR) Result <49.9 ge Organics (DI)	U (GC) Qualifier U	0.00398	MDL	mg/Kg		<u> </u>	10/01/22 19:48 Analyzed	Dil Fa
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte	Result <0.00398 Organics (DR) Result <49.9 ge Organics (DI)	U O) (GC) Qualifier U RO) (GC) Qualifier	0.00398 RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	10/01/22 19:48 Analyzed 09/23/22 12:25	Dil Fac
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	Result <0.00398 Organics (DR) Result <49.9 ge Organics (DI) Result	U O) (GC) Qualifier U RO) (GC) Qualifier	0.00398 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	10/01/22 19:48 Analyzed 09/23/22 12:25 Analyzed	Dil Fac
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Result <0.00398 Organics (DR) Result <49.9 ge Organics (DI) Result	U O) (GC) Qualifier U RO) (GC) Qualifier U	0.00398 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	10/01/22 19:48 Analyzed 09/23/22 12:25 Analyzed	Dil Fac
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result <0.00398 Organics (DR) Result <49.9 Georganics (Di Result <49.9	U O) (GC) Qualifier U RO) (GC) Qualifier U	0.00398 RL 49.9 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 09/23/22 11:03	Analyzed 09/23/22 12:25 Analyzed 09/24/22 11:43	Dil Fac

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1

Lab Sample ID: 890-3011-19

Lab Sample ID: 890-3011-20

SDG: Lea County NM

Client Sample ID: BH-202 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	09/23/22 11:03	09/24/22 11:43	1
o-Terphenyl	98		70 - 130	09/23/22 11:03	09/24/22 11:43	1

Method: 300.0 - Anions, Ion Chror	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3130		25.0		mg/Kg			09/23/22 20:16	5

Client Sample ID: BH-203 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 15:44	
Toluene	<0.00198	U *-	0.00198		mg/Kg		09/28/22 14:59	10/01/22 15:44	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 15:44	
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/28/22 14:59	10/01/22 15:44	
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 15:44	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/28/22 14:59	10/01/22 15:44	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	120		70 - 130				09/28/22 14:59	10/01/22 15:44	
1,4-Difluorobenzene (Surr)	92		70 - 130				09/28/22 14:59	10/01/22 15:44	
- Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/01/22 19:48	
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9		49.9		mg/Kg	<u>-</u>		09/23/22 12:25	
Method: 8015B NM - Diesel Rang	ne Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/23/22 11:03	09/24/22 12:48	
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		09/23/22 11:03	09/24/22 12:48	
3 3 1									
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/23/22 11:03	09/24/22 12:48	
C10-C28)	<49.9 %Recovery		49.9 <i>Limits</i>		mg/Kg		09/23/22 11:03 Prepared	09/24/22 12:48 Analyzed	
C10-C28) Oll Range Organics (Over C28-C36) Surrogate					mg/Kg				Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate		Qualifier	Limits 70 - 130		mg/Kg		Prepared 09/23/22 11:03	Analyzed 09/24/22 12:48	Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 117 110 pmatography -	Qualifier	Limits 70 - 130	MDL	mg/Kg Unit	D	Prepared 09/23/22 11:03	Analyzed 09/24/22 12:48	Dil Fa

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-204 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3011-21

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.0200	U *-	0.0200		mg/Kg		09/28/22 16:17	10/01/22 22:31	10
Toluene	<0.0200	U	0.0200		mg/Kg		09/28/22 16:17	10/01/22 22:31	1
Ethylbenzene	<0.0200	U	0.0200		mg/Kg		09/28/22 16:17	10/01/22 22:31	10
m-Xylene & p-Xylene	0.0689		0.0399		mg/Kg		09/28/22 16:17	10/01/22 22:31	1
o-Xylene	0.170		0.0200		mg/Kg		09/28/22 16:17	10/01/22 22:31	1
Kylenes, Total	0.239		0.0399		mg/Kg		09/28/22 16:17	10/01/22 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	789	S1+	70 - 130				09/28/22 16:17	10/01/22 22:31	1
1,4-Difluorobenzene (Surr)	96		70 - 130				09/28/22 16:17	10/01/22 22:31	1
Method: Total BTEX - Total BTI	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.239		0.0399		mg/Kg			10/01/22 19:48	
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	857		50.0		mg/Kg			09/23/22 12:25	
Method: 8015B NM - Diesel Rai	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/24/22 05:14	
Diesel Range Organics (Over	739		50.0		mg/Kg		09/22/22 11:26	09/24/22 05:14	
Oll Range Organics (Over C28-C36)	118		50.0		mg/Kg		09/22/22 11:26	09/24/22 05:14	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	91		70 - 130				09/22/22 11:26	09/24/22 05:14	
o-Terphenyl	94		70 - 130				09/22/22 11:26	09/24/22 05:14	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	2870		24.9		mg/Kg			09/23/22 20:27	

Client Sample ID: BH-205 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-22

Matrix: Solid

Method: 8021B - Volatile Organ	ethod: 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.200	U *+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100	
Toluene	1.92	*+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100	
Ethylbenzene	3.18	*+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100	
m-Xylene & p-Xylene	17.6	*+ *1	0.399		mg/Kg		09/29/22 16:18	10/03/22 19:15	100	
o-Xylene	8.12	*+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100	
Xylenes, Total	25.7	*+ *1	0.399		mg/Kg		09/29/22 16:18	10/03/22 19:15	100	

Project/Site: Kaiser SWD

Job ID: 890-3011-1 Client: Tetra Tech, Inc. SDG: Lea County NM

Client Sample ID: BH-205 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-22

Matrix: Solid

Sample Depth: 4.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	09/29/22 16:18	10/03/22 19:15	100
1,4-Difluorobenzene (Surr)	84		70 - 130	09/29/22 16:18	10/03/22 19:15	100

Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX 0.399 10/01/22 19:48 30.8 mg/Kg

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Dil Fac Result Qualifier RL **MDL** Unit D Prepared Analyzed **Total TPH** 3640 49.9 mg/Kg 09/23/22 12:25

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Unit D Analyte RL Prepared Analyzed Dil Fac 49.9 09/22/22 11:26 09/24/22 04:09 **Gasoline Range Organics** 582 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 2690 49.9 mg/Kg 09/22/22 11:26 09/24/22 04:09 C10-C28) **Oll Range Organics (Over** 372 49.9 mg/Kg 09/22/22 11:26 09/24/22 04:09 C28-C36)

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 09/22/22 11:26 1-Chlorooctane 120 70 - 130 09/24/22 04:09 70 - 130 o-Terphenyl 115 09/22/22 11:26 09/24/22 04:09

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 25.0 09/23/22 20:41 1410 mg/Kg

Client Sample ID: BH-206 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-23

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U *-	0.0199		mg/Kg		09/28/22 16:17	10/01/22 23:12	10
Toluene	<0.0199	U	0.0199		mg/Kg		09/28/22 16:17	10/01/22 23:12	10
Ethylbenzene	0.415		0.0199		mg/Kg		09/28/22 16:17	10/01/22 23:12	10
m-Xylene & p-Xylene	1.12		0.0398		mg/Kg		09/28/22 16:17	10/01/22 23:12	10
o-Xylene	0.709		0.0199		mg/Kg		09/28/22 16:17	10/01/22 23:12	10
Xylenes, Total	1.83		0.0398		mg/Kg		09/28/22 16:17	10/01/22 23:12	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				09/28/22 16:17	10/01/22 23:12	10
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130				09/28/22 16:17	10/01/22 23:12	10
- Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	2.24		0.0398		mg/Kg			10/01/22 19:48	

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-206 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-23

Lab Sample ID: 890-3011-24

Matrix: Solid

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1390		50.0		mg/Kg			09/23/22 12:25	
Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	169		50.0		mg/Kg		09/22/22 11:26	09/24/22 04:31	
Diesel Range Organics (Over C10-C28)	1060		50.0		mg/Kg		09/22/22 11:26	09/24/22 04:31	
Oll Range Organics (Over C28-C36)	159		50.0		mg/Kg		09/22/22 11:26	09/24/22 04:31	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	95	·	70 - 130				09/22/22 11:26	09/24/22 04:31	
o-Terphenyl	94		70 - 130				09/22/22 11:26	09/24/22 04:31	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1930		25.0		mg/Kg			09/23/22 20:46	

Client Sample ID: BH-207 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *-	0.00202		mg/Kg		09/28/22 16:17	10/01/22 21:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/28/22 16:17	10/01/22 21:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 16:17	10/01/22 21:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/28/22 16:17	10/01/22 21:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 16:17	10/01/22 21:51	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/28/22 16:17	10/01/22 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				09/28/22 16:17	10/01/22 21:51	1
1,4-Difluorobenzene (Surr)	104		70 - 130				09/28/22 16:17	10/01/22 21:51	1
Method: Total BTEX - Total BTEX Analyte Total BTEX	Calculation	Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/01/22 19:48	
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range	Calculation Result <0.00403 Organics (DR0	U) (GC)	0.00403		mg/Kg			10/01/22 19:48	1
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Calculation Result <0.00403 Organics (DRO Result	O) (GC) Qualifier	0.00403	MDL	mg/Kg	<u>D</u>	Prepared Prepared	10/01/22 19:48 Analyzed	1 Dil Fac
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range	Calculation Result <0.00403 Organics (DRO Result <50.0	O) (GC) Qualifier	0.00403		mg/Kg			10/01/22 19:48	1 Dil Fac
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	Calculation Result <0.00403 Organics (DRO Result <50.0 e Organics (DI	O) (GC) Qualifier	0.00403		mg/Kg Unit mg/Kg			10/01/22 19:48 Analyzed	Dil Fac
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	Calculation Result <0.00403 Organics (DRO Result <50.0 e Organics (DI	O) (GC) Qualifier U RO) (GC) Qualifier	0.00403 RL 50.0	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	10/01/22 19:48 Analyzed 09/23/22 12:25	Dil Fac
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte	Calculation Result <0.00403 Organics (DRO Result <50.0 e Organics (DI Result	O) (GC) Qualifier U RO) (GC) Qualifier	0.00403 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	10/01/22 19:48 Analyzed 09/23/22 12:25 Analyzed	Dil Fac
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Calculation Result <0.00403 Organics (DRO Result <50.0 e Organics (DI Result	Qualifier U RO) (GC) Qualifier U Qualifier U Qualifier U	0.00403 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	10/01/22 19:48 Analyzed 09/23/22 12:25 Analyzed	Dil Fac
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Calculation Result <0.00403 Organics (DRO Result <50.0 e Organics (DI Result <50.0	Qualifier U RO) (GC) Qualifier U Qualifier U U U U	0.00403 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 09/22/22 11:26	10/01/22 19:48 Analyzed 09/23/22 12:25 Analyzed 09/24/22 03:26	Dil Fac

Client: Tetra Tech, Inc.

Job ID: 890-3011-1 SDG: Lea County NM

Project/Site: Kaiser SWD

Lab Sample ID: 890-3011-24

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Client Sample ID: BH-207 (4.5')

Matrix: Solid

Sample Depth: 4.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	09/22/22 11:26	09/24/22 03:26	1
o-Terphenyl	111		70 - 130	09/22/22 11:26	09/24/22 03:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 4000 49.7 mg/Kg 09/23/22 20:51

Client Sample ID: SW-62 (8-13') Lab Sample ID: 890-3011-25 Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

Sample Depth: 8 - 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 16:17	10/01/22 22:11	
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 22:11	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 22:11	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/28/22 16:17	10/01/22 22:11	
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 22:11	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/28/22 16:17	10/01/22 22:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	112		70 - 130				09/28/22 16:17	10/01/22 22:11	
1,4-Difluorobenzene (Surr)	105		70 - 130				09/28/22 16:17	10/01/22 22:11	
- Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/22 19:48	
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			09/23/22 12:25	•
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/24/22 05:36	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/24/22 05:36	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/24/22 05:36	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	110		70 - 130				09/22/22 11:26	09/24/22 05:36	
	445		70 - 130				09/22/22 11:26	09/24/22 05:36	
o-Terphenyl -	115								
o-Terphenyl Method: 300.0 - Anions, Ion Chro		Soluble							

Eurofins Carlsbad

09/23/22 20:56

4.96

mg/Kg

330

Chloride

Lab Sample ID: 890-3011-26

Client: Tetra Tech, Inc.

Job ID: 890-3011-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-72 (0-8')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199		0.00199		mg/Kg	— <u> </u>	09/28/22 16:17	10/02/22 01:22	
Toluene	<0.00199		0.00199		mg/Kg		09/28/22 16:17	10/02/22 01:22	
Ethylbenzene	<0.00199		0.00199		mg/Kg		09/28/22 16:17	10/02/22 01:22	,
m-Xylene & p-Xylene	<0.00398		0.00398		mg/Kg		09/28/22 16:17	10/02/22 01:22	,
o-Xylene	<0.00199		0.00199		mg/Kg		09/28/22 16:17	10/02/22 01:22	
Xylenes, Total	<0.00398		0.00398		mg/Kg		09/28/22 16:17	10/02/22 01:22	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				09/28/22 16:17	10/02/22 01:22	
1,4-Difluorobenzene (Surr)	96		70 - 130				09/28/22 16:17	10/02/22 01:22	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/22 19:48	
Method: 8015 NM - Diesel Ran	• •		DI.	MDI	11-:4	Б	Drawavad	Analysis	Dil Fa
: Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Ran Analyte Total TPH	• •	O) (GC) Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed 09/23/22 12:25	Dil Fac
Analyte Total TPH	Result 436	Qualifier		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ra	Result 436	Qualifier RO) (GC)	49.9		mg/Kg	<u> </u>		09/23/22 12:25	
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte	Result 436 unge Organics (Di Result	Qualifier RO) (GC) Qualifier	49.9		mg/Kg	D	Prepared	09/23/22 12:25 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	Result 436	Qualifier RO) (GC) Qualifier	49.9		mg/Kg	<u> </u>		09/23/22 12:25	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10	Result 436 unge Organics (Di Result <49.9	Qualifier RO) (GC) Qualifier	49.9 RL 49.9		mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/22/22 11:26	09/23/22 12:25 Analyzed 09/24/22 04:53	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	Result 436 unge Organics (Di Result	Qualifier RO) (GC) Qualifier	49.9		mg/Kg	<u> </u>	Prepared	09/23/22 12:25 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 436 unge Organics (Di Result <49.9	Qualifier RO) (GC) Qualifier	49.9 RL 49.9		mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/22/22 11:26	09/23/22 12:25 Analyzed 09/24/22 04:53	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 436 Inge Organics (Di Result <49.9	Qualifier RO) (GC) Qualifier	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/22/22 11:26 09/22/22 11:26	09/23/22 12:25 Analyzed 09/24/22 04:53 09/24/22 04:53	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result 436	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/22/22 11:26 09/22/22 11:26	09/23/22 12:25 Analyzed 09/24/22 04:53 09/24/22 04:53	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 436	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/22/22 11:26 09/22/22 11:26 09/22/22 11:26	09/23/22 12:25 Analyzed 09/24/22 04:53 09/24/22 04:53	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 436	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/22/22 11:26 09/22/22 11:26 09/22/22 11:26 Prepared	09/23/22 12:25 Analyzed 09/24/22 04:53 09/24/22 04:53 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 436 436	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/22/22 11:26 09/22/22 11:26 09/22/22 11:26 Prepared 09/22/22 11:26	09/23/22 12:25 Analyzed 09/24/22 04:53 09/24/22 04:53 Analyzed 09/24/22 04:53	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	<u> </u>	Prepared 09/22/22 11:26 09/22/22 11:26 09/22/22 11:26 Prepared 09/22/22 11:26	09/23/22 12:25 Analyzed 09/24/22 04:53 09/24/22 04:53 Analyzed 09/24/22 04:53	

Client Sample ID: SW-73 (6-13')

Lab Sample ID: 890-3011-27

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 6 - 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 16:17	10/02/22 01:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/02/22 01:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/02/22 01:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/28/22 16:17	10/02/22 01:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/02/22 01:42	1
Xylenes, Total	< 0.00401	U	0.00401		mg/Kg		09/28/22 16:17	10/02/22 01:42	1

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Matrix: Solid

Lab Sample ID: 890-3011-27

09/21/22 15:33

09/22/22 03:11

Lab Sample ID: 890-3011-28

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-73 (6-13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 6 - 13

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/28/22 16:17	10/02/22 01:42	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/28/22 16:17	10/02/22 01:42	1

Method: Tota	al BTEX - To	otal BTEX (Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401 U	0.00401	mg/Kg			10/01/22 19:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qua	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			09/23/22 12:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 03:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 03:11	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	108	70 - 130	
o-Terphenyl	123	70 - 130	

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chlorida	304	5.02	ma/Ka			09/23/22 21:05	

Client Sample ID: SW-74 (8-13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 8 - 13

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				09/28/22 16:17	10/02/22 02:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130				09/28/22 16:17	10/02/22 02:03	1

Method: T	otal RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka			10/01/22 19:48	1

Method: 8015 NM - Diesel	Range Organics	(DRO)	(GC)
Michiga. 00 to Min - Diesei	Trainge Organics	(DITO)	(00)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			09/23/22 12:25	1

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Client: Tetra Tech, Inc.

Job ID: 890-3011-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-74 (8-13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 8 - 13

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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		09/21/22 15:33	09/22/22 03:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 03:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				09/21/22 15:33	09/22/22 03:32	1
o-Terphenyl	132	S1+	70 - 130				09/21/22 15:33	09/22/22 03:32	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1800		25.2		mg/Kg			09/23/22 21:20	5

Client Sample ID: SW-75 (0-4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 4.5

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3011-29

Lab Sample ID: 890-3011-28

Matrix: Solid

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U *-	0.0199		mg/Kg		09/28/22 16:17	10/02/22 04:26	10
Toluene	<0.0199	U	0.0199		mg/Kg		09/28/22 16:17	10/02/22 04:26	10
Ethylbenzene	0.390		0.0199		mg/Kg		09/28/22 16:17	10/02/22 04:26	10
m-Xylene & p-Xylene	2.35		0.0398		mg/Kg		09/28/22 16:17	10/02/22 04:26	10
o-Xylene	0.839		0.0199		mg/Kg		09/28/22 16:17	10/02/22 04:26	10
Xylenes, Total	3.19		0.0398		mg/Kg		09/28/22 16:17	10/02/22 04:26	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				09/28/22 16:17	10/02/22 04:26	10
1,4-Difluorobenzene (Surr)	74		70 - 130				09/28/22 16:17	10/02/22 04:26	10
Method: Total BTEX - Total BTI	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.58		0.0398		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Rang									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1340		49.9		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rai	O	BOV (CC)							
mountain ou rob rain Diosof Ra									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 09/21/22 15:33	Analyzed 09/22/22 03:53	
Analyte Gasoline Range Organics	Result			MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 174		49.9	MDL	mg/Kg	<u>D</u>	09/21/22 15:33	09/22/22 03:53	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result 174	Qualifier	49.9	MDL	mg/Kg	<u>D</u>	09/21/22 15:33 09/21/22 15:33	09/22/22 03:53	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 174 1020 142	Qualifier	49.9 49.9 49.9	MDL	mg/Kg	<u> </u>	09/21/22 15:33 09/21/22 15:33 09/21/22 15:33	09/22/22 03:53 09/22/22 03:53 09/22/22 03:53	1 1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

Client Sample ID: SW-75 (0-4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 0 - 4.5

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3011-29

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		4.99		mg/Kg			09/23/22 21:25	1

Client Sample ID: SW-76 (0-4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 0 - 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-30

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		09/28/22 16:17	10/02/22 02:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/28/22 16:17	10/02/22 02:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 16:17	10/02/22 02:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/28/22 16:17	10/02/22 02:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 16:17	10/02/22 02:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/28/22 16:17	10/02/22 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				09/28/22 16:17	10/02/22 02:23	1
1,4-Difluorobenzene (Surr)	95		70 - 130				09/28/22 16:17	10/02/22 02:23	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/22 19:48	1
- Method: 8015 NM - Diesel Range	e Organics (DR)	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.1		50.0		mg/Kg			09/23/22 12:25	1
Total TPH - Method: 8015B NM - Diesel Ran		RO) (GC)	50.0		mg/Kg			09/23/22 12:25	
- -	ge Organics (D	RO) (GC) Qualifier	50.0	MDL		D	Prepared	09/23/22 12:25 Analyzed	
Method: 8015B NM - Diesel Ran	ge Organics (D	Qualifier		MDL		<u>D</u>	Prepared 09/21/22 15:33		1 Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <50.0	Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	09/21/22 15:33	Analyzed 09/22/22 04:14	1 Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	Qualifier U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 15:33 09/21/22 15:33	Analyzed 09/22/22 04:14 09/22/22 04:14	1 Dil Fac 1 1
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <50.0	Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 15:33 09/21/22 15:33 09/21/22 15:33	Analyzed 09/22/22 04:14 09/22/22 04:14 09/22/22 04:14	1 Dil Fac 1 1
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <50.0 60.1 <50.0 %Recovery	Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 15:33 09/21/22 15:33 09/21/22 15:33 <i>Prepared</i>	Analyzed 09/22/22 04:14 09/22/22 04:14 09/22/22 04:14 Analyzed	Dil Fac 1 1 Dil Fac Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <50.0 60.1 <50.0 %Recovery 99 114	Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 15:33 09/21/22 15:33 09/21/22 15:33 Prepared 09/21/22 15:33	Analyzed 09/22/22 04:14 09/22/22 04:14 09/22/22 04:14 Analyzed 09/22/22 04:14	1 Dil Fac 1 1 1 1 Dil Fac 1
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <50.0 60.1 <50.0 %Recovery 99 114 romatography -	Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	09/21/22 15:33 09/21/22 15:33 09/21/22 15:33 Prepared 09/21/22 15:33	Analyzed 09/22/22 04:14 09/22/22 04:14 09/22/22 04:14 Analyzed 09/22/22 04:14	1 Dil Fac 1 1 1 1 Dil Fac 1

Lab Sample ID: 890-3011-31

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-77 (0-4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 16:17	10/02/22 02:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/02/22 02:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/02/22 02:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/28/22 16:17	10/02/22 02:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/02/22 02:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/28/22 16:17	10/02/22 02:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				09/28/22 16:17	10/02/22 02:44	1
1,4-Difluorobenzene (Surr)	101		70 - 130				09/28/22 16:17	10/02/22 02:44	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/23/22 12:25	Dil Fac
Method: 8015B NM - Diesel Rang		RO) (GC)			3 3				
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 04:35	1
Diesel Range Organics (Over C10-C28)	81.7		49.9		mg/Kg		09/21/22 15:33	09/22/22 04:35	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				09/21/22 15:33	09/22/22 04:35	1
o-Terphenyl	113		70 - 130				09/21/22 15:33	09/22/22 04:35	1
Method: 300.0 - Anions, Ion Chro									
Analyte Chloride	Result 3710	Qualifier	RL 24.8	MDL	Unit mg/Kg	D	Prepared	Analyzed 09/23/22 21:44	Dil Fac

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	recent ourlogate Necovery (Acceptance Limits)
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-19417-A-1-E MS	Matrix Spike	109	105	
880-19417-A-1-F MSD	Matrix Spike Duplicate	112	100	
390-3011-1	H-1 (0-2')	110	95	
990-3011-1 MS	H-1 (0-2')	108	90	
90-3011-1 MSD	H-1 (0-2')	119	97	
990-3011-2	H-2 (0-2')	125	99	
390-3011-3	H-3 (0-2')	113	96	
390-3011-4	H-4 (0-2')	113	91	
390-3011- 4 390-3011-5		116	95	
90-3011-6	H-5 (0-2')			
	H-6 (0-2')	118	95	
90-3011-7	H-7 (0-2')	122	88	
90-3011-8	BH-191 (8')	113	90	
90-3011-9	BH-192 (8')	123	99	
90-3011-10	BH-193 (8')	123	91	
90-3011-11	BH-194 (8')	118	92	
90-3011-12	BH-195 (8')	120	9 S1-	
90-3011-13	BH-196 (4.5')	122	90	
90-3011-14	BH-197 (4.5')	126	91	
90-3011-15	BH-198 (4.5')	121	94	
90-3011-16	BH-199 (4.5')	126	93	
90-3011-17	BH-200 (4.5')	135 S1+	87	
90-3011-18	BH-201 (4.5')	230 S1+	98	
90-3011-19	BH-202 (4.5')	126	94	
90-3011-20	BH-203 (4.5')	120	92	
90-3011-21	BH-204 (4.5')	789 S1+	96	
90-3011-22	BH-205 (4.5')	155 S1+	84	
90-3011-23	BH-206 (4.5')	126	65 S1-	
90-3011-24	BH-207 (4.5')	117	104	
90-3011-25	SW-62 (8-13')	112	105	
90-3011-26	SW-72 (0-8')	108	96	
90-3011-27	SW-73 (6-13')	108	98	
90-3011-28	SW-74 (8-13')	108	99	
90-3011-29	SW-75 (0-4.5')	137 S1+	74	
90-3011-30	SW-76 (0-4.5')	110	95	
90-3011-31	SW-77 (0-4.5')	108	101	
90-3015-A-1-E MS	Matrix Spike	101	94	
90-3015-A-1-F MSD	Matrix Spike Duplicate	108	107	
CS 880-35621/1-A	Lab Control Sample	110	99	
CS 880-35625/1-A	Lab Control Sample	109	100	
CS 880-35724/1-A	Lab Control Sample	76	73	
CSD 880-35621/2-A	Lab Control Sample Dup	106	90	
CSD 880-35625/2-A	Lab Control Sample Dup	104	99	
CSD 880-35724/2-A	Lab Control Sample Dup	128	123	
IB 880-35621/5-A	Method Blank	76	89	
MB 880-35625/5-A	Method Blank	101	114	
MB 880-35628/5-A	Method Blank	105	105	
4B 880-35692/5-A	Method Blank	99	83	
	Method Blank	99 70		
MB 880-35720/5-A MB 880-35724/5-A	Method Blank	100	92 76	

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Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

		1001	0.70114	Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19485-A-21-F MS	Matrix Spike	97	102	
880-19485-A-21-G MSD	Matrix Spike Duplicate	97	101	
890-3010-A-2-C MS	Matrix Spike	90	88	
890-3010-A-2-D MSD	Matrix Spike Duplicate	103	99	
890-3011-1	H-1 (0-2')	88	101	
890-3011-1 MS	H-1 (0-2')	98	94	
890-3011-1 MSD	H-1 (0-2')	96	93	
890-3011-2	H-2 (0-2')	86	94	
890-3011-3	H-3 (0-2')	107	118	
890-3011-4	H-4 (0-2')	105	115	
890-3011-5	H-5 (0-2')	95	104	
890-3011-6	H-6 (0-2')	115	126	
890-3011-7	H-7 (0-2')	88	93	
890-3011-8	BH-191 (8')	110	119	
890-3011-9	BH-192 (8')	82	92	
890-3011-10	BH-193 (8')	88	94	
890-3011-11	BH-194 (8')	106	117	
890-3011-12	BH-195 (8')	87	94	
890-3011-13	BH-196 (4.5')	96	102	
890-3011-14	BH-197 (4.5')	97	111	
890-3011-15	BH-198 (4.5')	88	95	
890-3011-16	BH-199 (4.5')	90	100	
390-3011-17	BH-200 (4.5')	89	90	
890-3011-18	BH-201 (4.5')	96	94	
890-3011-19	BH-202 (4.5')	105	98	
890-3011-19 MS	BH-202 (4.5')	110	87	
390-3011-19 MSD	BH-202 (4.5')	112	89	
890-3011-20	BH-203 (4.5')	117	110	
890-3011-21	BH-204 (4.5')	91	94	
890-3011-22	BH-205 (4.5')	120	115	
890-3011-23	BH-206 (4.5')	95	94	
890-3011-24	BH-207 (4.5')	104	111	
890-3011-25	SW-62 (8-13')	110	115	
890-3011-26	SW-72 (0-8')	115	121	
890-3011-27	SW-73 (6-13')	108	123	
890-3011-28	SW-74 (8-13')	121	132 S1+	
890-3011-29	SW-75 (0-4.5')	101	110	
890-3011-30	SW-76 (0-4.5')	99	114	
390-3011-31	·	101	113	
LCS 880-35103/2-A	SW-77 (0-4.5') Lab Control Sample	91	99	
LCS 880-35103/2-A LCS 880-35130/2-A	Lab Control Sample	95	96	
	· · · · · · · · · · · · · · · · · · ·	95 99		
LCS 880-35172/2-A	Lab Control Sample		105	
LCS 880-35262/2-A	Lab Control Sample	107	96 105	
LCSD 880-35103/3-A	Lab Control Sample Dup	93	105	
LCSD 880-35130/3-A LCSD 880-35172/3-A	Lab Control Sample Dup Lab Control Sample Dup	100 106	103	

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea 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 880-35262/3-A	Lab Control Sample Dup	109	93	
MB 880-35103/1-A	Method Blank	116	134 S1+	
MB 880-35130/1-A	Method Blank	110	124	
MB 880-35172/1-A	Method Blank	120	139 S1+	
MB 880-35262/1-A	Method Blank	132 S1+	124	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35621/5-A

Matrix: Solid

Analysis Batch: 35814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35621

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 06:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 06:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 06:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 06:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 06:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 06:24	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130		09/28/22 14:59	10/01/22 06:24	1
1,4-Difluorobenzene (Surr)	89		70 - 130	C	09/28/22 14:59	10/01/22 06:24	1

Lab Sample ID: LCS 880-35621/1-A

Matrix: Solid

Analysis Batch: 35814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35621

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07727		mg/Kg		77	70 - 130	
Toluene	0.100	0.06855	*-	mg/Kg		69	70 - 130	
Ethylbenzene	0.100	0.07924		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	0.200	0.1579		mg/Kg		79	70 - 130	
o-Xylene	0.100	0.08291		mg/Kg		83	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: LCSD 880-35621/2-A

Matrix: Solid

Analysis Batch: 35814

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35621

	Spike	LCSD	LCSD				70KeC		KPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07697		mg/Kg		77	70 - 130	0	35	
Toluene	0.100	0.07904		mg/Kg		79	70 - 130	14	35	
Ethylbenzene	0.100	0.07910		mg/Kg		79	70 - 130	0	35	
m-Xylene & p-Xylene	0.200	0.1571		mg/Kg		79	70 - 130	1	35	
o-Xylene	0.100	0.08282		mg/Kg		83	70 - 130	0	35	

LCSD LCSD

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	90	70 - 130

Lab Sample ID: 890-3011-1 MS

Matrix: Solid

Analysis Batch: 35814

Client Sample ID: H-1 (0-2')

Prep Type: Total/NA

Prep Batch: 35621

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.09391		mg/Kg		93	70 - 130	
Toluene	< 0.00199	U *-	0.101	0.09305		mg/Kg		92	70 - 130	

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3011-1 MS

Matrix: Solid

Analysis Batch: 35814

Client Sample ID: H-1 (0-2')
Prep Type: Total/NA

Prep Batch: 35621

Sa	mple Sample	Spike	MS	MS				%Rec
Analyte R	esult Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene <0.0	0199 U	0.101	0.09436		mg/Kg		94	70 - 130
m-Xylene & p-Xylene <0.0	0398 U	0.202	0.1865		mg/Kg		93	70 - 130
o-Xylene <0.0	0199 U	0.101	0.09355		mg/Kg		93	70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Client Sample ID: H-1 (0-2')

Prep Type: Total/NA

Prep Batch: 35621

Lab Sample ID: 890-3011-1 MSD **Matrix: Solid**

Analysis Batch: 35814

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0996	0.09949		mg/Kg		100	70 - 130	6	35
Toluene	<0.00199	U *-	0.0996	0.1008		mg/Kg		101	70 - 130	8	35
Ethylbenzene	<0.00199	U	0.0996	0.09957		mg/Kg		100	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1958		mg/Kg		98	70 - 130	5	35
o-Xylene	<0.00199	U	0.0996	0.09977		mg/Kg		100	70 - 130	6	35
The state of the s											

MSD MSD

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: MB 880-35625/5-A

Matrix: Solid

Analysis Batch: 35815

Client Sample ID: Method Blank **Prep Type: Total/NA**

Prep Batch: 35625

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 16:17	10/01/22 20:00	1

MB MB

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101	70 - 130	09/28/22 16:17	10/01/22 20:00	1
1.4-Difluorobenzene (Surr)	114	70 - 130	09/28/22 16:17	10/01/22 20:00	1

Lab Sample ID: LCS 880-35625/1-A

Matrix: Solid

Analysis Batch: 35815

Client Sample ID: Lab Control Sample	
Prep Type: Total/NA	

Prep Batch: 35625

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.06312	*_	mg/Kg		63	70 - 130
Toluene	0.100	0.07231		mg/Kg		72	70 - 130
Ethylbenzene	0.100	0.07030		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	0.200	0.1471		mg/Kg		74	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35625

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-35625/1-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 35815 Prep Batch: 35625 LCS LCS

Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits D o-Xylene 0.100 0.07531 75 70 - 130 mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 100

Lab Sample ID: LCSD 880-35625/2-A

Matrix: Solid

Analysis Batch: 35815

Prep Batch: 35625 Spike LCSD LCSD RPD RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.06587 mg/Kg 66 70 - 130 4 35 Toluene 0.100 0.07114 mg/Kg 71 70 - 130 2 35 Ethylbenzene 0.100 0.07179 mg/Kg 72 70 - 130 35 35 m-Xylene & p-Xylene 0.200 0.1452 mg/Kg 73 70 - 130 0.100 0.07431 mg/Kg 74 70 - 130 o-Xylene

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 104 70 - 130 1,4-Difluorobenzene (Surr) 99 70 - 130

Lab Sample ID: 880-19417-A-1-E MS

Matrix: Solid

Analysis Batch: 35815

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U *-	0.101	0.09573		mg/Kg		95	70 - 130
Toluene	<0.00201	U	0.101	0.09812		mg/Kg		98	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.08958		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1802		mg/Kg		90	70 - 130
o-Xylene	<0.00201	U	0.101	0.09000		mg/Kg		89	70 - 130

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 109 70 - 130 1,4-Difluorobenzene (Surr) 105

Lab Sample ID: 880-19417-A-1-F MSD

Matrix: Solid

Analysis Batch: 35815									Prep	Batch:	35625
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U *-	0.0990	0.09175	-	mg/Kg		93	70 - 130	4	35
Toluene	<0.00201	U	0.0990	0.1021		mg/Kg		103	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.0990	0.1028		mg/Kg		104	70 - 130	14	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2097		mg/Kg		106	70 - 130	15	35
o-Xylene	<0.00201	U	0.0990	0.1043		mg/Kg		105	70 - 130	15	35

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Prep Type: Total/NA

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-19417-A-1-F MSD

Matrix: Solid

Analysis Batch: 35815

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35625

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 112 70 - 130 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: MB 880-35628/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 35815

Prep Type: Total/NA

Prep Batch: 35628

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <0.00200 U 09/28/22 16:25 0.00200 10/01/22 06:46 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 09/28/22 16:25 10/01/22 06:46 Ethylbenzene <0.00200 U 0.00200 09/28/22 16:25 10/01/22 06:46 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 09/28/22 16:25 10/01/22 06:46 o-Xylene <0.00200 U 0.00200 mg/Kg 09/28/22 16:25 10/01/22 06:46 Xylenes, Total <0.00400 U 0.00400 mg/Kg 09/28/22 16:25 10/01/22 06:46

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	70 - 130	09/28/22 16:25	10/01/22 06:46	1
1,4-Difluorobenzene (Surr)	105	70 - 130	09/28/22 16:25	10/01/22 06:46	1

Lab Sample ID: MB 880-35692/5-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35692

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/29/22 11:56	10/02/22 22:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/29/22 11:56	10/02/22 22:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/29/22 11:56	10/02/22 22:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/29/22 11:56	10/02/22 22:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/22 11:56	10/02/22 22:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/29/22 11:56	10/02/22 22:18	1

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	09/29/22 11:56	10/02/22 22:18	1
1,4-Difluorobenzene (Surr)	83	70 - 130	09/29/22 11:56	10/02/22 22:18	1

Lab Sample ID: MB 880-35720/5-A

Released to Imaging: 9/1/2023 3:11:42 PM

Matrix: Solid

Analysis Batch: 35814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35720

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/29/22 15:53	09/30/22 16:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/29/22 15:53	09/30/22 16:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/29/22 15:53	09/30/22 16:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/29/22 15:53	09/30/22 16:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/22 15:53	09/30/22 16:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/29/22 15:53	09/30/22 16:57	1

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-35720/5-A

Matrix: Solid

Analysis Batch: 35814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35720

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	09/29/22 15:53	09/30/22 16:57	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/29/22 15:53	09/30/22 16:57	1

Lab Sample ID: MB 880-35724/5-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 35724

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/29/22 16:18	10/03/22 08:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/29/22 16:18	10/03/22 08:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/29/22 16:18	10/03/22 08:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/29/22 16:18	10/03/22 08:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/22 16:18	10/03/22 08:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/29/22 16:18	10/03/22 08:58	1

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100	70 - 130	09/29/22 16:18	10/03/22 08:58	1
1,4-Difluorobenzene (Surr)	76	70 - 130	09/29/22 16:18	10/03/22 08:58	1

Lab Sample ID: LCS 880-35724/1-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35724

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07829		mg/Kg		78	70 - 130	
Toluene	0.100	0.08089		mg/Kg		81	70 - 130	
Ethylbenzene	0.100	0.07734		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	0.200	0.1621		mg/Kg		81	70 - 130	
o-Xylene	0.100	0.08300		mg/Kg		83	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	76	70 - 130
1,4-Difluorobenzene (Surr)	73	70 - 130

Lab Sample ID: LCSD 880-35724/2-A

Released to Imaging: 9/1/2023 3:11:42 PM

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35724

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1318	*+ *1	mg/Kg		132	70 - 130	51	35
Toluene	0.100	0.1408	*+ *1	mg/Kg		141	70 - 130	54	35
Ethylbenzene	0.100	0.1312	*+ *1	mg/Kg		131	70 - 130	52	35
m-Xylene & p-Xylene	0.200	0.2759	*+ *1	mg/Kg		138	70 - 130	52	35
o-Xylene	0.100	0.1422	*+ *1	mg/Kg		142	70 - 130	53	35

LCSD LCSD

Surrogate	%Recovery Qual	lifier Limits
4-Bromofluorobenzene (Surr)	128	70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-35724/2-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35724

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1,4-Difluorobenzene (Surr) 123 70 - 130

Client Sample ID: Matrix Spike Lab Sample ID: 890-3015-A-1-E MS

Matrix: Solid

Analysis Batch: 35890

Prep Type: Total/NA

Prep Batch: 35724

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *+ *1	0.0998	0.09073		mg/Kg		91	70 - 130	
Toluene	<0.00200	U *+ *1	0.0998	0.09593		mg/Kg		96	70 - 130	
Ethylbenzene	<0.00200	U *+ *1	0.0998	0.08487		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.200	0.1756		mg/Kg		88	70 - 130	
o-Xylene	<0.00200	U *+ *1	0.0998	0.09418		mg/Kg		94	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: 890-3015-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 35890

Prep Type: Total/NA

Prep Batch: 35724

Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00200	U *+ *1	0.0990	0.09916		mg/Kg		100	70 - 130	9	35
<0.00200	U *+ *1	0.0990	0.1009		mg/Kg		102	70 - 130	5	35
<0.00200	U *+ *1	0.0990	0.08894		mg/Kg		90	70 - 130	5	35
<0.00401	U *+ *1	0.198	0.1820		mg/Kg		92	70 - 130	4	35
<0.00200	U *+ *1	0.0990	0.09773		mg/Kg		99	70 - 130	4	35
	Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00401	Sample Sample Result Qualifier <0.00200 U *+ *1 <0.00200 U *+ *1 <0.00200 U *+ *1 <0.00401 U *+ *1 <0.00200 U *+ *1	Result Qualifier Added <0.00200	Result Qualifier Added Result <0.00200	Result Qualifier Added Result Qualifier <0.00200	Result Qualifier Added Result Qualifier Unit <0.00200	Result Qualifier Added Result Qualifier Unit D <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <0.00200

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-35103/1-A

Matrix: Solid

Analysis Batch: 35007

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 35103

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 19:44	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 19:44	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 19:44	1

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	09/21/22 15:33	09/21/22 19:44	1
o-Terphenyl	134	S1+	70 - 130	09/21/22 15:33	09/21/22 19:44	1

Lab Sample ID: LCS 880-35103/2-A

Lab Sample ID: LCSD 880-35103/3-A

QC Sample Results

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35103

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1038		mg/Kg		104	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	978.2		mg/Kg		98	70 - 130	
C10-C28)								

Matrix: Solid

Analysis Batch: 35007

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	99		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35103

Analysis Batch: 35007 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 946.6 95 70 - 130 9 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1014 mg/Kg 101 70 - 130 4 20

C10-C28)

Matrix: Solid

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 93 70 - 130 o-Terphenyl 105 70 - 130

Lab Sample ID: 880-19485-A-21-F MS Client Sample ID: Matrix Spike

Matrix: Solid Analysis Batch: 35007 Prep Type: Total/NA Prep Batch: 35103

Sample Sample Spike MS MS %Rec Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 996 962.8 70 - 130 94 mg/Kg (GRO)-C6-C10 <49.9 U 996 1097 108 70 - 130 Diesel Range Organics (Over mg/Kg C10-C28)

Matrix: Solid

Analysis Batch: 35007

	IVIS IVIS	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	97	70 - 130
o-Terphenvl	102	70 - 130

Lab Sample ID: 880-19485-A-21-G MSD

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35103

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	912.2		mg/Kg		89	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1095		mg/Kg		108	70 - 130	0	20

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 97

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-19485-A-21-G MSD

Matrix: Solid

Analysis Batch: 35007

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35103

MSD MSD

%Recovery Qualifier Surrogate Limits o-Terphenyl 101 70 - 130

Lab Sample ID: MB 880-35130/1-A

Matrix: Solid

Analysis Batch: 35122

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35130

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 19:31	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 19:31	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 19:31	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	09/22/22 08:45	09/22/22 19:31	1
o-Terphenyl	124		70 - 130	09/22/22 08:45	09/22/22 19:31	1

Lab Sample ID: LCS 880-35130/2-A

Matrix: Solid

Analysis Batch: 35122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 35130

	эріке	LCS	LUS				70Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	914.4		mg/Kg		91	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	844.8		mg/Kg		84	70 - 130		
C10 C20\									

100 100

Cnika

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-35130/3-A

Matrix: Solid

Analysis Batch: 35122

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35130

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	883.3		mg/Kg		88	70 - 130	3	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	908.3		mg/Kg		91	70 - 130	7	20	
040,000)										

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	100	70 - 130
o-Terphenyl	103	70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3011-1 MS

Matrix: Solid

Analysis Batch: 35122

Client Sample ID: H-1 (0-2') Prep Type: Total/NA

Prep Batch: 35130

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	923.1		mg/Kg		91	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1069		mg/Kg		107	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	94		70 - 130

Client Sample ID: H-1 (0-2')

Prep Type: Total/NA

Prep Batch: 35130

Lab Sample ID: 890-3011-1 MSD Matrix: Solid

Analysis Batch: 35122

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	999	927.6		mg/Kg		91	70 - 130		20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	1052		mg/Kg		105	70 - 130	2	20
C10-C28)											

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	96	70 - 130
o-Terphenyl	93	70 - 130

Lab Sample ID: MB 880-35172/1-A

Matrix: Solid

Analysis Batch: 35220

Client Sample ID: Method Blanl

Prep Type: Total/NA

Prep Batch: 35172

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	09/22/22 11:26	09/23/22 20:35	1
o-Terphenyl	139	S1+	70 - 130	09/22/22 11:26	09/23/22 20:35	1

Lab Sample ID: LCS 880-35172/2-A

Matrix: Solid

Analysis Batch: 35220

Prep Type: Total/NA

Prep Batch: 35172

	Spike	£ LCS	LCS			%Rec	
Analyte	Added	d Result	Qualifier	Unit E	%Rec	Limits	
Gasoline Range Organics	1000	960.3		mg/Kg	96	70 - 130	
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	891.9		mg/Kg	89	70 - 130	
C10-C28)							

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-35172/2-A

Matrix: Solid

Analysis Batch: 35220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35172

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 99 70 - 130 o-Terphenyl 105 70 - 130

Lab Sample ID: LCSD 880-35172/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 35220

Prep Type: Total/NA Prep Batch: 35172

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 960.5 96 70 - 1300 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 951.2 95 mg/Kg 70 - 1306 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 890-3010-A-2-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 35220

Prep Type: Total/NA

Prep Batch: 35172

Sample Sample Spike MS MS Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 996 887.9 mg/Kg 87 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 998.1 mg/Kg 100 70 - 130

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 90 70 - 130 o-Terphenyl 88

Lab Sample ID: 890-3010-A-2-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 35220

Prep Type: Total/NA

Prep Batch: 35172

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	999	1050		mg/Kg		103	70 - 130	17	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	999	1135		mg/Kg		114	70 - 130	13	20	
C10 C28)												

C10-C28)

MSD MSD

Surrogate	%Recovery C	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	99		70 - 130

Client Sample ID: Method Blank

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

846

Lab Sample ID: MB 880-35262/1-A

Matrix: Solid

Analysis Batch: 35322

	Prep Type: Total/NA
	Prep Batch: 35262
IB MB	

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		09/23/22 11:03	09/24/22 10:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/23/22 11:03	09/24/22 10:38	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/23/22 11:03	09/24/22 10:38	1
	5	*							
	MB	МВ							
Surrogate	%Recovery	Qualifier	l imite				Prenared	Analyzed	Dil Fac

Surrogate 1-Chlorooctane 132 S1+ 70 - 130 09/23/22 11:03 09/24/22 10:38 o-Terphenyl 124 70 - 130 09/23/22 11:03 09/24/22 10:38

Lab Sample ID: LCS 880-35262/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 35322

C10-C28)

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1000 887.2 89 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 1002 mg/Kg 100 70 - 130

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 107 70 - 130 o-Terphenyl 96 70 - 130

Lab Sample ID: LCSD 880-35262/3-A

Matrix: Solid

Analysis Batch: 35322							Prep	Batch:	35262
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	921.2		mg/Kg		92	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	973.8		mg/Kg		97	70 - 130	3	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 109 70 - 130 o-Terphenyl 93

Lab Sample ID: 890-3011-19 MS **Client Sample ID: BH-202 (4.5')**

Matrix: Solid

Analysis Batch: 35322									Prep	Batch: 35262
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	861.2		mg/Kg		86	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	996	965.0		mg/Kg		92	70 - 130	

Prep Type: Total/NA

Prep Batch: 35262

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Client Sample ID: BH-202 (4.5')

Client Sample ID: BH-202 (4.5')

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 35262

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3011-19 MS **Matrix: Solid**

Analysis Batch: 35322

MS MS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	110	70 - 130
o-Terphenyl	87	70 - 130

Lab Sample ID: 890-3011-19 MSD

Matrix: Solid Analysis Batch: 35322

Analysis Batch: 35322									Prep	Batch:	35262
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	892.1		mg/Kg		89	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	971.0		mg/Kg		93	70 - 130	1	20

MSD MSD Surrogate %Recovery Qualifier Limits 112 70 - 130 1-Chlorooctane 70 - 130 89 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35024/1-A

Matrix: Solid

Analysis Batch: 35313

MB MB

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/23/22 19:42	1

Lab Sample ID: LCS 880-35024/2-A

Matrix: Solid

Analysis Batch: 35313

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	· ·	 250	246.5		ma/Ka		99	90 - 110	

Lab Sample ID: LCSD 880-35024/3-A

Matrix: Solid

Analysis Batch: 35313

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	247.9		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-3011-17 MS

Matrix: Solid

Analysis Batch: 35313

Analysis Butsii. 555 is	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	3220		1260	4518		mg/Kg		104	90 - 110	

Eurofins Carlsbad

Prep Type: Soluble

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: BH-200 (4.5')

Prep Type: Soluble

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3011-17 MSD Client Sample ID: BH-200 (4.5') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 35313

Sample Sample Spike MSD MSD RPD %Rec Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 3220 1260 4521 mg/Kg 104 90 - 110 20

Lab Sample ID: 890-3011-27 MS Client Sample ID: SW-73 (6-13')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 35313 Sample Sample Spike MS MS %Rec

Qualifier Added Analyte Result Result Qualifier Unit D %Rec Limits Chloride 394 252 632.7 mg/Kg 95 90 - 110

Lab Sample ID: 890-3011-27 MSD Client Sample ID: SW-73 (6-13')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 35313

MSD MSD RPD Spike %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 394 252 632.9 mg/Kg 90 - 110

Lab Sample ID: MB 880-35023/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 35314

мв мв Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac

5.00 09/23/22 22:29 Chloride <5.00 mg/Kg

Lab Sample ID: LCS 880-35023/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

LCS LCS

Matrix: Solid

Analysis Batch: 35314

Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 246.3 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-35023/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 35314

Spike LCSD LCSD %Rec RPD Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 247 2 mg/Kg 90 - 110

Lab Sample ID: 890-3011-7 MS Client Sample ID: H-7 (0-2')

Matrix: Solid

Analysis Batch: 35314

MS MS Sample Sample Spike %Rec Added Result Qualifier Result Qualifier Limits Analyte Unit D %Rec Chloride 26.7 252 284.1 mg/Kg 102 90 - 110

Lab Sample ID: 890-3011-7 MSD Client Sample ID: H-7 (0-2')

Matrix: Solid

Analysis Batch: 35314

Released to Imaging: 9/1/2023 3:11:42 PM

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 26.7 252 284.2 mg/Kg 102 90 - 110 20

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Prep Type: Soluble

Prep Type: Soluble

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

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Prep Batch: 35621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-3011-1	H-1 (0-2')	Total/NA	Solid	5035	
890-3011-2	H-2 (0-2')	Total/NA	Solid	5035	
890-3011-3	H-3 (0-2')	Total/NA	Solid	5035	
890-3011-4	H-4 (0-2')	Total/NA	Solid	5035	
890-3011-5	H-5 (0-2')	Total/NA	Solid	5035	
890-3011-6	H-6 (0-2')	Total/NA	Solid	5035	
890-3011-7	H-7 (0-2')	Total/NA	Solid	5035	
890-3011-8	BH-191 (8')	Total/NA	Solid	5035	
890-3011-9	BH-192 (8')	Total/NA	Solid	5035	
890-3011-10	BH-193 (8')	Total/NA	Solid	5035	
890-3011-11	BH-194 (8')	Total/NA	Solid	5035	
890-3011-12	BH-195 (8')	Total/NA	Solid	5035	
890-3011-13	BH-196 (4.5')	Total/NA	Solid	5035	
890-3011-14	BH-197 (4.5')	Total/NA	Solid	5035	
890-3011-15	BH-198 (4.5')	Total/NA	Solid	5035	
890-3011-16	BH-199 (4.5')	Total/NA	Solid	5035	
890-3011-17	BH-200 (4.5')	Total/NA	Solid	5035	
890-3011-18	BH-201 (4.5')	Total/NA	Solid	5035	
890-3011-19	BH-202 (4.5')	Total/NA	Solid	5035	
890-3011-20	BH-203 (4.5')	Total/NA	Solid	5035	
MB 880-35621/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35621/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35621/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3011-1 MS	H-1 (0-2')	Total/NA	Solid	5035	
890-3011-1 MSD	H-1 (0-2')	Total/NA	Solid	5035	

Prep Batch: 35625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-21	BH-204 (4.5')	Total/NA	Solid	5035	
890-3011-23	BH-206 (4.5')	Total/NA	Solid	5035	
890-3011-24	BH-207 (4.5')	Total/NA	Solid	5035	
890-3011-25	SW-62 (8-13')	Total/NA	Solid	5035	
890-3011-26	SW-72 (0-8')	Total/NA	Solid	5035	
890-3011-27	SW-73 (6-13')	Total/NA	Solid	5035	
890-3011-28	SW-74 (8-13')	Total/NA	Solid	5035	
890-3011-29	SW-75 (0-4.5')	Total/NA	Solid	5035	
890-3011-30	SW-76 (0-4.5')	Total/NA	Solid	5035	
890-3011-31	SW-77 (0-4.5')	Total/NA	Solid	5035	
MB 880-35625/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35625/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35625/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19417-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-19417-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 35628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35628/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 35692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35692/5-A	Method Blank	Total/NA	Solid	5035	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3011-1

SDG: Lea County NM

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Prep	Batc	h: 35720
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35720/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 35724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-22	BH-205 (4.5')	Total/NA	Solid	5035	
MB 880-35724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3015-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3015-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 35814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-1	H-1 (0-2')	Total/NA	Solid	8021B	3562
890-3011-2	H-2 (0-2')	Total/NA	Solid	8021B	3562
890-3011-3	H-3 (0-2')	Total/NA	Solid	8021B	3562
890-3011-4	H-4 (0-2')	Total/NA	Solid	8021B	3562
890-3011-5	H-5 (0-2')	Total/NA	Solid	8021B	3562
890-3011-6	H-6 (0-2')	Total/NA	Solid	8021B	3562
890-3011-7	H-7 (0-2')	Total/NA	Solid	8021B	3562
890-3011-8	BH-191 (8')	Total/NA	Solid	8021B	3562
890-3011-9	BH-192 (8')	Total/NA	Solid	8021B	3562
890-3011-10	BH-193 (8')	Total/NA	Solid	8021B	3562
890-3011-11	BH-194 (8')	Total/NA	Solid	8021B	3562
890-3011-12	BH-195 (8')	Total/NA	Solid	8021B	3562
890-3011-13	BH-196 (4.5')	Total/NA	Solid	8021B	3562
890-3011-14	BH-197 (4.5')	Total/NA	Solid	8021B	35621
890-3011-15	BH-198 (4.5')	Total/NA	Solid	8021B	3562
890-3011-16	BH-199 (4.5')	Total/NA	Solid	8021B	3562
890-3011-17	BH-200 (4.5')	Total/NA	Solid	8021B	3562
890-3011-18	BH-201 (4.5')	Total/NA	Solid	8021B	3562
890-3011-19	BH-202 (4.5')	Total/NA	Solid	8021B	3562
890-3011-20	BH-203 (4.5')	Total/NA	Solid	8021B	3562
MB 880-35621/5-A	Method Blank	Total/NA	Solid	8021B	3562
MB 880-35720/5-A	Method Blank	Total/NA	Solid	8021B	35720
LCS 880-35621/1-A	Lab Control Sample	Total/NA	Solid	8021B	3562
LCSD 880-35621/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3562
890-3011-1 MS	H-1 (0-2')	Total/NA	Solid	8021B	3562
890-3011-1 MSD	H-1 (0-2')	Total/NA	Solid	8021B	35621

Analysis Batch: 35815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-21	BH-204 (4.5')	Total/NA	Solid	8021B	35625
890-3011-23	BH-206 (4.5')	Total/NA	Solid	8021B	35625
890-3011-24	BH-207 (4.5')	Total/NA	Solid	8021B	35625
890-3011-25	SW-62 (8-13')	Total/NA	Solid	8021B	35625
890-3011-26	SW-72 (0-8')	Total/NA	Solid	8021B	35625
890-3011-27	SW-73 (6-13')	Total/NA	Solid	8021B	35625
890-3011-28	SW-74 (8-13')	Total/NA	Solid	8021B	35625
890-3011-29	SW-75 (0-4.5')	Total/NA	Solid	8021B	35625
890-3011-30	SW-76 (0-4.5')	Total/NA	Solid	8021B	35625

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Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 35815 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-31	SW-77 (0-4.5')	Total/NA	Solid	8021B	35625
MB 880-35625/5-A	Method Blank	Total/NA	Solid	8021B	35625
MB 880-35628/5-A	Method Blank	Total/NA	Solid	8021B	35628
LCS 880-35625/1-A	Lab Control Sample	Total/NA	Solid	8021B	35625
LCSD 880-35625/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35625
880-19417-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	35625
880-19417-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35625

Analysis Batch: 35879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3011-1	H-1 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-2	H-2 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-3	H-3 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-4	H-4 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-5	H-5 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-6	H-6 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-7	H-7 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-8	BH-191 (8')	Total/NA	Solid	Total BTEX	
890-3011-9	BH-192 (8')	Total/NA	Solid	Total BTEX	
890-3011-10	BH-193 (8')	Total/NA	Solid	Total BTEX	
890-3011-11	BH-194 (8')	Total/NA	Solid	Total BTEX	
890-3011-12	BH-195 (8')	Total/NA	Solid	Total BTEX	
890-3011-13	BH-196 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-14	BH-197 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-15	BH-198 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-16	BH-199 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-17	BH-200 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-18	BH-201 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-19	BH-202 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-20	BH-203 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-21	BH-204 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-22	BH-205 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-23	BH-206 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-24	BH-207 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-25	SW-62 (8-13')	Total/NA	Solid	Total BTEX	
890-3011-26	SW-72 (0-8')	Total/NA	Solid	Total BTEX	
890-3011-27	SW-73 (6-13')	Total/NA	Solid	Total BTEX	
890-3011-28	SW-74 (8-13')	Total/NA	Solid	Total BTEX	
890-3011-29	SW-75 (0-4.5')	Total/NA	Solid	Total BTEX	
890-3011-30	SW-76 (0-4.5')	Total/NA	Solid	Total BTEX	
890-3011-31	SW-77 (0-4.5')	Total/NA	Solid	Total BTEX	

Analysis Batch: 35890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-22	BH-205 (4.5')	Total/NA	Solid	8021B	35724
MB 880-35692/5-A	Method Blank	Total/NA	Solid	8021B	35692
MB 880-35724/5-A	Method Blank	Total/NA	Solid	8021B	35724
LCS 880-35724/1-A	Lab Control Sample	Total/NA	Solid	8021B	35724
LCSD 880-35724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35724
890-3015-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	35724
890-3015-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35724

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

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Analysis Batch: 35007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-27	SW-73 (6-13')	Total/NA	Solid	8015B NM	35103
890-3011-28	SW-74 (8-13')	Total/NA	Solid	8015B NM	35103
890-3011-29	SW-75 (0-4.5')	Total/NA	Solid	8015B NM	35103
890-3011-30	SW-76 (0-4.5')	Total/NA	Solid	8015B NM	35103
890-3011-31	SW-77 (0-4.5')	Total/NA	Solid	8015B NM	35103
MB 880-35103/1-A	Method Blank	Total/NA	Solid	8015B NM	35103
LCS 880-35103/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35103
LCSD 880-35103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35103
880-19485-A-21-F MS	Matrix Spike	Total/NA	Solid	8015B NM	35103
880-19485-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35103

Prep Batch: 35103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-27	SW-73 (6-13')	Total/NA	Solid	8015NM Prep	
890-3011-28	SW-74 (8-13')	Total/NA	Solid	8015NM Prep	
890-3011-29	SW-75 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-3011-30	SW-76 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-3011-31	SW-77 (0-4.5')	Total/NA	Solid	8015NM Prep	
MB 880-35103/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35103/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19485-A-21-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19485-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-1	H-1 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-2	H-2 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-3	H-3 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-4	H-4 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-5	H-5 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-6	H-6 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-7	H-7 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-8	BH-191 (8')	Total/NA	Solid	8015B NM	35130
890-3011-9	BH-192 (8')	Total/NA	Solid	8015B NM	35130
890-3011-10	BH-193 (8')	Total/NA	Solid	8015B NM	35130
890-3011-11	BH-194 (8')	Total/NA	Solid	8015B NM	35130
890-3011-12	BH-195 (8')	Total/NA	Solid	8015B NM	35130
890-3011-13	BH-196 (4.5')	Total/NA	Solid	8015B NM	35130
890-3011-14	BH-197 (4.5')	Total/NA	Solid	8015B NM	35130
890-3011-15	BH-198 (4.5')	Total/NA	Solid	8015B NM	35130
890-3011-16	BH-199 (4.5')	Total/NA	Solid	8015B NM	35130
890-3011-17	BH-200 (4.5')	Total/NA	Solid	8015B NM	35130
890-3011-18	BH-201 (4.5')	Total/NA	Solid	8015B NM	35130
MB 880-35130/1-A	Method Blank	Total/NA	Solid	8015B NM	35130
LCS 880-35130/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35130
LCSD 880-35130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35130
890-3011-1 MS	H-1 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-1 MSD	H-1 (0-2')	Total/NA	Solid	8015B NM	35130

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

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Prep Batch: 35130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-3011-1	H-1 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-2	H-2 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-3	H-3 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-4	H-4 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-5	H-5 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-6	H-6 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-7	H-7 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-8	BH-191 (8')	Total/NA	Solid	8015NM Prep	
890-3011-9	BH-192 (8')	Total/NA	Solid	8015NM Prep	
890-3011-10	BH-193 (8')	Total/NA	Solid	8015NM Prep	
890-3011-11	BH-194 (8')	Total/NA	Solid	8015NM Prep	
890-3011-12	BH-195 (8')	Total/NA	Solid	8015NM Prep	
890-3011-13	BH-196 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-14	BH-197 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-15	BH-198 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-16	BH-199 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-17	BH-200 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-18	BH-201 (4.5')	Total/NA	Solid	8015NM Prep	
MB 880-35130/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35130/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3011-1 MS	H-1 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-1 MSD	H-1 (0-2')	Total/NA	Solid	8015NM Prep	

Prep Batch: 35172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-21	BH-204 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-22	BH-205 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-23	BH-206 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-24	BH-207 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-25	SW-62 (8-13')	Total/NA	Solid	8015NM Prep	
890-3011-26	SW-72 (0-8')	Total/NA	Solid	8015NM Prep	
MB 880-35172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3010-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3010-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-21	BH-204 (4.5')	Total/NA	Solid	8015B NM	35172
890-3011-22	BH-205 (4.5')	Total/NA	Solid	8015B NM	35172
890-3011-23	BH-206 (4.5')	Total/NA	Solid	8015B NM	35172
890-3011-24	BH-207 (4.5')	Total/NA	Solid	8015B NM	35172
890-3011-25	SW-62 (8-13')	Total/NA	Solid	8015B NM	35172
890-3011-26	SW-72 (0-8')	Total/NA	Solid	8015B NM	35172
MB 880-35172/1-A	Method Blank	Total/NA	Solid	8015B NM	35172
LCS 880-35172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35172
LCSD 880-35172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35172
890-3010-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	35172
890-3010-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35172

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

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Prep Batch: 35262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-19	BH-202 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-20	BH-203 (4.5')	Total/NA	Solid	8015NM Prep	
MB 880-35262/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35262/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35262/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3011-19 MS	BH-202 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-19 MSD	BH-202 (4.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-1	H-1 (0-2')	Total/NA	Solid	8015 NM	
890-3011-2	H-2 (0-2')	Total/NA	Solid	8015 NM	
890-3011-3	H-3 (0-2')	Total/NA	Solid	8015 NM	
890-3011-4	H-4 (0-2')	Total/NA	Solid	8015 NM	
890-3011-5	H-5 (0-2')	Total/NA	Solid	8015 NM	
890-3011-6	H-6 (0-2')	Total/NA	Solid	8015 NM	
890-3011-7	H-7 (0-2')	Total/NA	Solid	8015 NM	
890-3011-8	BH-191 (8')	Total/NA	Solid	8015 NM	
890-3011-9	BH-192 (8')	Total/NA	Solid	8015 NM	
890-3011-10	BH-193 (8')	Total/NA	Solid	8015 NM	
890-3011-11	BH-194 (8')	Total/NA	Solid	8015 NM	
890-3011-12	BH-195 (8')	Total/NA	Solid	8015 NM	
890-3011-13	BH-196 (4.5')	Total/NA	Solid	8015 NM	
890-3011-14	BH-197 (4.5')	Total/NA	Solid	8015 NM	
890-3011-15	BH-198 (4.5')	Total/NA	Solid	8015 NM	
890-3011-16	BH-199 (4.5')	Total/NA	Solid	8015 NM	
890-3011-17	BH-200 (4.5')	Total/NA	Solid	8015 NM	
890-3011-18	BH-201 (4.5')	Total/NA	Solid	8015 NM	
890-3011-19	BH-202 (4.5')	Total/NA	Solid	8015 NM	
890-3011-20	BH-203 (4.5')	Total/NA	Solid	8015 NM	
890-3011-21	BH-204 (4.5')	Total/NA	Solid	8015 NM	
890-3011-22	BH-205 (4.5')	Total/NA	Solid	8015 NM	
890-3011-23	BH-206 (4.5')	Total/NA	Solid	8015 NM	
890-3011-24	BH-207 (4.5')	Total/NA	Solid	8015 NM	
890-3011-25	SW-62 (8-13')	Total/NA	Solid	8015 NM	
890-3011-26	SW-72 (0-8')	Total/NA	Solid	8015 NM	
890-3011-27	SW-73 (6-13')	Total/NA	Solid	8015 NM	
890-3011-28	SW-74 (8-13')	Total/NA	Solid	8015 NM	
890-3011-29	SW-75 (0-4.5')	Total/NA	Solid	8015 NM	
890-3011-30	SW-76 (0-4.5')	Total/NA	Solid	8015 NM	
890-3011-31	SW-77 (0-4.5')	Total/NA	Solid	8015 NM	

Analysis Batch: 35322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-19	BH-202 (4.5')	Total/NA	Solid	8015B NM	35262
890-3011-20	BH-203 (4.5')	Total/NA	Solid	8015B NM	35262
MB 880-35262/1-A	Method Blank	Total/NA	Solid	8015B NM	35262
LCS 880-35262/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35262
LCSD 880-35262/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35262
890-3011-19 MS	BH-202 (4.5')	Total/NA	Solid	8015B NM	35262
890-3011-19 MSD	BH-202 (4.5')	Total/NA	Solid	8015B NM	35262

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3011-1

SDG: Lea County NM

HPLC/IC

Leach Batch: 35023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-1	H-1 (0-2')	Soluble	Solid	DI Leach	
890-3011-2	H-2 (0-2')	Soluble	Solid	DI Leach	
890-3011-3	H-3 (0-2')	Soluble	Solid	DI Leach	
890-3011-4	H-4 (0-2')	Soluble	Solid	DI Leach	
890-3011-5	H-5 (0-2')	Soluble	Solid	DI Leach	
890-3011-6	H-6 (0-2')	Soluble	Solid	DI Leach	
890-3011-7	H-7 (0-2')	Soluble	Solid	DI Leach	
890-3011-8	BH-191 (8')	Soluble	Solid	DI Leach	
890-3011-9	BH-192 (8')	Soluble	Solid	DI Leach	
890-3011-10	BH-193 (8')	Soluble	Solid	DI Leach	
890-3011-11	BH-194 (8')	Soluble	Solid	DI Leach	
890-3011-12	BH-195 (8')	Soluble	Solid	DI Leach	
890-3011-13	BH-196 (4.5')	Soluble	Solid	DI Leach	
890-3011-14	BH-197 (4.5')	Soluble	Solid	DI Leach	
890-3011-15	BH-198 (4.5')	Soluble	Solid	DI Leach	
890-3011-16	BH-199 (4.5')	Soluble	Solid	DI Leach	
MB 880-35023/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35023/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35023/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3011-7 MS	H-7 (0-2')	Soluble	Solid	DI Leach	
890-3011-7 MSD	H-7 (0-2')	Soluble	Solid	DI Leach	

Leach Batch: 35024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-3011-17	BH-200 (4.5')	Soluble	Solid	DI Leach	
890-3011-18	BH-201 (4.5')	Soluble	Solid	DI Leach	
890-3011-19	BH-202 (4.5')	Soluble	Solid	DI Leach	
890-3011-20	BH-203 (4.5')	Soluble	Solid	DI Leach	
890-3011-21	BH-204 (4.5')	Soluble	Solid	DI Leach	
890-3011-22	BH-205 (4.5')	Soluble	Solid	DI Leach	
890-3011-23	BH-206 (4.5')	Soluble	Solid	DI Leach	
890-3011-24	BH-207 (4.5')	Soluble	Solid	DI Leach	
890-3011-25	SW-62 (8-13')	Soluble	Solid	DI Leach	
390-3011-26	SW-72 (0-8')	Soluble	Solid	DI Leach	
390-3011-27	SW-73 (6-13')	Soluble	Solid	DI Leach	
390-3011-28	SW-74 (8-13')	Soluble	Solid	DI Leach	
390-3011-29	SW-75 (0-4.5')	Soluble	Solid	DI Leach	
390-3011-30	SW-76 (0-4.5')	Soluble	Solid	DI Leach	
390-3011-31	SW-77 (0-4.5')	Soluble	Solid	DI Leach	
MB 880-35024/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-35024/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35024/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-3011-17 MS	BH-200 (4.5')	Soluble	Solid	DI Leach	
890-3011-17 MSD	BH-200 (4.5')	Soluble	Solid	DI Leach	
390-3011-27 MS	SW-73 (6-13')	Soluble	Solid	DI Leach	
890-3011-27 MSD	SW-73 (6-13')	Soluble	Solid	DI Leach	

Analysis Batch: 35313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-17	BH-200 (4.5')	Soluble	Solid	300.0	35024
890-3011-18	BH-201 (4.5')	Soluble	Solid	300.0	35024

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Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 35313 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-19	BH-202 (4.5')	Soluble	Solid	300.0	35024
890-3011-20	BH-203 (4.5')	Soluble	Solid	300.0	35024
890-3011-21	BH-204 (4.5')	Soluble	Solid	300.0	35024
890-3011-22	BH-205 (4.5')	Soluble	Solid	300.0	35024
890-3011-23	BH-206 (4.5')	Soluble	Solid	300.0	35024
890-3011-24	BH-207 (4.5')	Soluble	Solid	300.0	35024
890-3011-25	SW-62 (8-13')	Soluble	Solid	300.0	35024
890-3011-26	SW-72 (0-8')	Soluble	Solid	300.0	35024
890-3011-27	SW-73 (6-13')	Soluble	Solid	300.0	35024
890-3011-28	SW-74 (8-13')	Soluble	Solid	300.0	35024
890-3011-29	SW-75 (0-4.5')	Soluble	Solid	300.0	35024
890-3011-30	SW-76 (0-4.5')	Soluble	Solid	300.0	35024
890-3011-31	SW-77 (0-4.5')	Soluble	Solid	300.0	35024
MB 880-35024/1-A	Method Blank	Soluble	Solid	300.0	35024
LCS 880-35024/2-A	Lab Control Sample	Soluble	Solid	300.0	35024
LCSD 880-35024/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35024
890-3011-17 MS	BH-200 (4.5')	Soluble	Solid	300.0	35024
890-3011-17 MSD	BH-200 (4.5')	Soluble	Solid	300.0	35024
890-3011-27 MS	SW-73 (6-13')	Soluble	Solid	300.0	35024
890-3011-27 MSD	SW-73 (6-13')	Soluble	Solid	300.0	35024

Analysis Batch: 35314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-1	H-1 (0-2')	Soluble	Solid	300.0	35023
890-3011-2	H-2 (0-2')	Soluble	Solid	300.0	35023
890-3011-3	H-3 (0-2')	Soluble	Solid	300.0	35023
890-3011-4	H-4 (0-2')	Soluble	Solid	300.0	35023
890-3011-5	H-5 (0-2')	Soluble	Solid	300.0	35023
890-3011-6	H-6 (0-2')	Soluble	Solid	300.0	35023
890-3011-7	H-7 (0-2')	Soluble	Solid	300.0	35023
890-3011-8	BH-191 (8')	Soluble	Solid	300.0	35023
890-3011-9	BH-192 (8')	Soluble	Solid	300.0	35023
890-3011-10	BH-193 (8')	Soluble	Solid	300.0	35023
890-3011-11	BH-194 (8')	Soluble	Solid	300.0	35023
890-3011-12	BH-195 (8')	Soluble	Solid	300.0	35023
890-3011-13	BH-196 (4.5')	Soluble	Solid	300.0	35023
890-3011-14	BH-197 (4.5')	Soluble	Solid	300.0	35023
890-3011-15	BH-198 (4.5')	Soluble	Solid	300.0	35023
890-3011-16	BH-199 (4.5')	Soluble	Solid	300.0	35023
MB 880-35023/1-A	Method Blank	Soluble	Solid	300.0	35023
LCS 880-35023/2-A	Lab Control Sample	Soluble	Solid	300.0	35023
LCSD 880-35023/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35023
890-3011-7 MS	H-7 (0-2')	Soluble	Solid	300.0	35023
890-3011-7 MSD	H-7 (0-2')	Soluble	Solid	300.0	35023

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Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: H-1 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Lab Sample ID: 890-3011-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 06:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 20:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/23/22 23:13	CH	EET MID

Client Sample ID: H-2 (0-2') Lab Sample ID: 890-3011-2 Date Collected: 09/19/22 00:00 Matrix: Solid

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 07:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 21:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/23/22 23:27	CH	EET MID

Client Sample ID: H-3 (0-2') Lab Sample ID: 890-3011-3 Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 07:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 22:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35023	09/21/22 10:05	SMC	EET MIC
Soluble	Analysis	300.0		1			35314	09/23/22 23:32	CH	EET MID

Client Sample ID: H-4 (0-2') Lab Sample ID: 890-3011-4

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 08:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID

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Matrix: Solid

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: H-4 (0-2') Lab Sample ID: 890-3011-4 Date Collected: 09/19/22 00:00

Matrix: Solid

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 35274 09/23/22 12:25 SM **EET MID** Analysis Total/NA Prep 8015NM Prep 10.02 g 10 mL 35130 09/22/22 08:45 DM **EET MID** Total/NA 8015B NM 1 uL 1 uL 35122 09/22/22 22:22 SM **EET MID** Analysis 35023 09/21/22 10:05 Soluble Leach DI Leach 5 g 50 mL SMC **EET MID** Soluble Analysis 300.0 1 35314 09/23/22 23:37 СН **EET MID**

Client Sample ID: H-5 (0-2') Lab Sample ID: 890-3011-5

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Date Received: 09/20/22 10:22

Batch Batch Dil Initial Final Batch Prepared Method Amount Amount Number **Prep Type** Type Run Factor or Analyzed Analyst Lab Prep 09/28/22 14:59 Total/NA 5035 5.00 g 5 mL 35621 EL **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 35814 10/01/22 08:35 **EET MID** AJ 1 Total/NA Analysis Total BTEX 1 35879 10/01/22 19:48 AJ **EET MID** Total/NA 8015 NM 35274 09/23/22 12:25 SM **EET MID** Analysis 1 Total/NA Prep 8015NM Prep 10.01 g 10 mL 35130 09/22/22 08:45 DM **EET MID** Total/NA 8015B NM 1 uL 35122 09/22/22 22:43 SM **EET MID** Analysis 1 uL Soluble Leach DI Leach 4.97 g 50 mL 35023 09/21/22 10:05 SMC **EET MID** Soluble Analysis 300.0 1 35314 09/23/22 23:42 СН **EET MID**

Lab Sample ID: 890-3011-6 Client Sample ID: H-6 (0-2') Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 09:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 23:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/23/22 23:47	CH	EET MID

Lab Sample ID: 890-3011-7 Client Sample ID: H-7 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 09:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	35130 35122	09/22/22 08:45 09/22/22 23:26	DM SM	EET MID EET MID

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Matrix: Solid

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: H-7 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Lab Sample ID: 890-3011-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/23/22 23:52	CH	EET MID

Client Sample ID: BH-191 (8') Lab Sample ID: 890-3011-8

Date Collected: 09/19/22 00:00 Matrix: Solid Date Received: 09/20/22 10:22

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 4.99 g 35621 09/28/22 14:59 EL EET MID Prep 5 mL Total/NA 8021B 5 mL 5 mL 35814 10/01/22 10:04 Analysis 1 AJ **EET MID** Total/NA Total BTEX 35879 10/01/22 19:48 EET MID Analysis AJ 1 Total/NA Analysis 8015 NM 35274 09/23/22 12:25 SM **EET MID** Total/NA 35130 09/22/22 08:45 EET MID Prep 8015NM Prep 10.01 g 10 mL DM Total/NA 8015B NM 35122 09/23/22 02:18 **EET MID** Analysis 1 uL 1 uL SM

Client Sample ID: BH-192 (8') Lab Sample ID: 890-3011-9

1

5.01 g

50 mL

35023

35314

09/21/22 10:05

09/24/22 00:07

SMC

СН

EET MID

EET MID

Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

Leach

Analysis

DI Leach

300.0

Soluble

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 10:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 23:47	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/24/22 00:12	CH	EET MID

Client Sample ID: BH-193 (8') Lab Sample ID: 890-3011-10

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 10:57	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 01:56	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35023	09/21/22 10:05	SMC	EET MIC
Soluble	Analysis	300.0		1			35314	09/24/22 00:26	CH	EET MID

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Matrix: Solid

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Job ID: 890-3011-1 SDG: Lea County NM

Project/Site: Kaiser SWD

Client: Tetra Tech, Inc.

Lab Sample ID: 890-3011-11

Matrix: Solid

Client Sample ID: BH-194 (8') Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 12:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 02:40	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/24/22 00:31	CH	EET MID

Client Sample ID: BH-195 (8')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Lab Sample ID: 890-3011-12

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.04 g 5 mL 35621 09/28/22 14:59 EL EET MID Total/NA 8021B 5 mL 10/01/22 13:08 **EET MID** Analysis 1 5 mL 35814 ΑJ Total/NA Total BTEX 35879 10/01/22 19:48 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 35274 09/23/22 12:25 SM **EET MID** Total/NA 35130 Prep 8015NM Prep 10.02 g 10 mL 09/22/22 08:45 DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 35122 09/23/22 00:09 SM **EET MID** Soluble 35023 09/21/22 10:05 Leach DI Leach 4.95 g 50 mL SMC **EET MID** Soluble Analysis 300.0 35314 09/24/22 00:36 СН **EET MID**

Client Sample ID: BH-196 (4.5')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Lab Sample ID: 890-3011-13

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 13:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 00:30	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		5			35314	09/24/22 00:41	CH	EET MID

Client Sample ID: BH-197 (4.5')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

35314	09/24/22 00:41	СН	EET MID
	Lab Samp	ole ID:	890-3011-14
			Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 14:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID

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Released to Imaging: 9/1/2023 3:11:42 PM

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-197 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Lab Sample ID: 890-3011-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 03:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		5			35314	09/24/22 00:46	CH	EET MID

Lab Sample ID: 890-3011-15 **Client Sample ID: BH-198 (4.5')**

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 14:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 01:13	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		5			35314	09/24/22 00:51	CH	EET MID

Client Sample ID: BH-199 (4.5') Lab Sample ID: 890-3011-16

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 **Matrix: Solid**

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 14:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 01:35	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/24/22 00:55	CH	EET MID

Lab Sample ID: 890-3011-17 Client Sample ID: BH-200 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	35814	10/01/22 16:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 03:23	SM	EET MID

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-200 (4.5')

Date Received: 09/20/22 10:22

Lab Sample ID: 890-3011-17 Date Collected: 09/19/22 00:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 35024 SMC Leach 4.98 g 50 mL 09/22/22 11:54 **EET MID** 300.0 Soluble Analysis 5 35313 09/23/22 19:57 СН **EET MID**

Client Sample ID: BH-201 (4.5') Lab Sample ID: 890-3011-18

Date Collected: 09/19/22 00:00 Matrix: Solid Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	35814	10/01/22 16:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 03:44	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 20:11	CH	EET MID

Client Sample ID: BH-202 (4.5') Lab Sample ID: 890-3011-19

Date Collected: 09/19/22 00:00 **Matrix: Solid** Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 15:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35262	09/23/22 11:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35322	09/24/22 11:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 20:16	CH	EET MID

Client Sample ID: BH-203 (4.5') Lab Sample ID: 890-3011-20

Date Collected: 09/19/22 00:00 **Matrix: Solid** Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 15:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35262	09/23/22 11:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35322	09/24/22 12:48	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		1			35313	09/23/22 20:22	CH	EET MID

Date Received: 09/20/22 10:22

Job ID: 890-3011-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-3011-21

Client Sample ID: BH-204 (4.5') Date Collected: 09/19/22 00:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	35815	10/01/22 22:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 05:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 20:27	CH	EET MID

Client Sample ID: BH-205 (4.5') Lab Sample ID: 890-3011-22

Date Collected: 09/19/22 00:00 Matrix: Solid

Date Received: 09/20/22 10:22

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.01 g 5 mL 35724 09/29/22 16:18 MNR EET MID Total/NA 8021B 5 mL 35890 10/03/22 19:15 **EET MID** Analysis 100 5 mL AJ Total/NA Total BTEX 35879 10/01/22 19:48 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 35274 09/23/22 12:25 SM **EET MID** Total/NA 35172 Prep 8015NM Prep 10.02 g 10 mL 09/22/22 11:26 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 35220 09/24/22 04:09 SM **EET MID** Soluble 35024 Leach DI Leach 5 g 50 mL 09/22/22 11:54 SMC **EET MID** Soluble Analysis 300.0 5 35313 09/23/22 20:41 СН **EET MID**

Client Sample ID: BH-206 (4.5') Lab Sample ID: 890-3011-23

Date Collected: 09/19/22 00:00 **Matrix: Solid** Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	35815	10/01/22 23:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 04:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 20:46	CH	EET MID

Lab Sample ID: 890-3011-24 **Client Sample ID: BH-207 (4.5')**

Date Collected: 09/19/22 00:00 **Matrix: Solid** Date Received: 09/20/22 10:22

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/01/22 21:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-207 (4.5')

Lab Sample ID: 890-3011-24 Date Collected: 09/19/22 00:00 Matrix: Solid

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 03:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		10			35313	09/23/22 20:51	CH	EET MID

Client Sample ID: SW-62 (8-13') Lab Sample ID: 890-3011-25

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/01/22 22:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 05:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		1			35313	09/23/22 20:56	CH	EET MID

Client Sample ID: SW-72 (0-8') Lab Sample ID: 890-3011-26 Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/02/22 01:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 04:53	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		1			35313	09/23/22 21:01	CH	EET MID

Lab Sample ID: 890-3011-27 Client Sample ID: SW-73 (6-13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/02/22 01:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	35103 35007	09/21/22 15:33 09/22/22 03:11	DM SM	EET MID EET MID

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Matrix: Solid

Job ID: 890-3011-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-3011-27

Matrix: Solid

Client Sample ID: SW-73 (6-13') Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		1			35313	09/23/22 21:05	CH	EET MID

Client Sample ID: SW-74 (8-13') Lab Sample ID: 890-3011-28

Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/02/22 02:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 03:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 21:20	CH	EET MID

Lab Sample ID: 890-3011-29 **Client Sample ID: SW-75 (0-4.5')**

Date Collected: 09/19/22 00:00 **Matrix: Solid** Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	35815	10/02/22 04:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 03:53	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		1			35313	09/23/22 21:25	CH	EET MID

Client Sample ID: SW-76 (0-4.5') Lab Sample ID: 890-3011-30

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/02/22 02:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 04:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		10			35313	09/23/22 21:39	CH	EET MID

Eurofins Carlsbad

Matrix: Solid

Lab Chronicle

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-77 (0-4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Lab Sample ID: 890-3011-31

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/02/22 02:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 04:35	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 21:44	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Released to Imaging: 9/1/2023 3:11:42 PM

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, but	it the laboratory is not certifi	ied by the governing authority. This list ma	av include analytes for
the agency does not of		,	ica sy and governing againstity.	ay morado dilarytoo lor
the agency does not of Analysis Method		Matrix	Analyte	ay molado analytoo tor
0 ,	fer certification.	•	, , ,	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea 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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

890-3011-30

890-3011-31

SW-76 (0-4.5')

SW-77 (0-4.5')

Job ID: 890-3011-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3011-1	H-1 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-2	H-2 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-3	H-3 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-4	H-4 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-5	H-5 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-6	H-6 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-7	H-7 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-8	BH-191 (8')	Solid	09/19/22 00:00	09/20/22 10:22	8
890-3011-9	BH-192 (8')	Solid	09/19/22 00:00	09/20/22 10:22	8
890-3011-10	BH-193 (8')	Solid	09/19/22 00:00	09/20/22 10:22	8
890-3011-11	BH-194 (8')	Solid	09/19/22 00:00	09/20/22 10:22	8
890-3011-12	BH-195 (8')	Solid	09/19/22 00:00	09/20/22 10:22	8
890-3011-13	BH-196 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-14	BH-197 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-15	BH-198 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-16	BH-199 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-17	BH-200 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-18	BH-201 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-19	BH-202 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-20	BH-203 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-21	BH-204 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-22	BH-205 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-23	BH-206 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-24	BH-207 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-25	SW-62 (8-13')	Solid	09/19/22 00:00	09/20/22 10:22	8 - 13
890-3011-26	SW-72 (0-8')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 8
890-3011-27	SW-73 (6-13')	Solid	09/19/22 00:00	09/20/22 10:22	6 - 13
890-3011-28	SW-74 (8-13')	Solid	09/19/22 00:00	09/20/22 10:22	8 - 13
890-3011-29	SW-75 (0-4.5')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 4.5

Solid

Solid

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09/20/22 10:22 0 - 4.5

09/20/22 10:22 0 - 4.5

09/19/22 00:00

09/19/22 00:00

ORIGINAL COPY

Relinquished by:		Relinguished by:	Tak	Relipquished t											(LAB USE ONLY	LAB #		Comments:	Receiving Laboratory:	Invoice to:	(county, state)	Project Name:	Client Name:	1	
by: Date: Time:			21/20/16	by: Date: Time:	BH-193 (8")	Вн-192 (8')	BH-191 (8')	H-7 (0-2')	H-6 (0-2')	H-5 (0-2')	H-4 (0-2')	H-3 (0-2')	H-2 (0-2')	H-1 (0-2')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions	Tena teen, the	Total Tach I
Received by:		Received by:	(Jan 1) 1	Regulived by:	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	DATE TIME	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager	IC.	7
Date: Time:		Date: Time:	4.20.22 1022	Date: Time:	×	×	×	×	×	×	×	×	×	×	WATEI SOIL HCL HNO ₃ ICE None	2	MATRIX PRESERVATIVE		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Tel (432) 662-4559	Midland, Texas 79705
Ç. C	, , , , ,		LAB USE ONLY		×	×	×	×	×	×	×	×	×	×	# CONT FILTER BTEX 8 TPH TX TPH 80 PAH 82 Total Me	ED (1005 15M (1700	(/N) BTE (Ext to GRO	DRO -	ORO -			890	ANALY:		
	Rush Charges Authorized	RUSH: Same Day 24 hr	X SIANDARD	REMARKS	×	×	×	×	×	×	×	×	×	×	PCB's NORM PLM (A: Chloride	Vol. 8 Semi. 8082 /	s olatiles 32608 / Vol. 8 608	624 270C/62 TDS	25			890-3011 Chain of Custody			
Report		48 hr 72 hr													Genera Anion/G			emistry ((see at	tached	list)				

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Ciair Gonzales	Relinquished by:		Reling (shed by	The state of the s	Relipquished by											(LABUSE)	LAB#		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4	
Clair Gonzales Clai	Date:		Date:	22,000/6	Date:	BH-203 (4.5')	ВН-202 (4.5')	BH-201 (4.5')	Вн-200 (4.5')	ВН-199 (4.5')	ВН-198 (4.5)	ВН-197 (4.5)	ВН-196 (4.5')	ВН-195 (8')	BH-194 (8')		SAMPLE IDENTIFICATION							Permian Water Solutions	ietra iecn, inc.	
# CONTAINERS # CONTAINERS FILTERED (Y/N) FILTERED (Y/N) FILTERED (Y/N)	Received by:		Received by:	Clar a	Received by:	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022		YEAR: 2020	SAMPLING		Sampler Signature:		Project #:	Clair	Site Manager		
# CONTAINERS FILTERED (Y/N) FILTERED (Y/N) ANALYSIS FILTERED (Y/N) FILTERED (Y/N) FILTERED (Y/N) ANALYSIS FILTERED (Y/N) FILTERED (Y/				10 9:20:20	Date:											HCL HNO ₃	R			Peyton Oliver		212C-MD-02230	Gonzales@tetratech.com	Clair Gonzales	Tel (432) 882-4559 Fax (432) 682-3946	Widland, Texas 79705
TCLP Volatiles TCLP Semi Volatiles		1	0	LAB USE ONL												FILTER BTEX 8 TPH TX TPH 80 PAH 82 Total Me	ED (1005 15M (170C etals /	ERS Y/N) BTE (Ext to	EX 82606 0 C35) - DRO - C	ORO - I	Hg					
NORM PLM (Asbestos) Y X X X X X X X X X Chloride Chloride Sulfate TDS Chloride Sulfate TDS Chloride Sulfate TDS Chloride Sulfate TDS Chloride Sulfate TDS Chloride Sulfate TDS	Special Report Limits or TRRP Report	Rush Charges Authorized		X STANDARD	REMARKS	×	×	×	×	×	×	×	×	×	×	TCLP V TCLP S RCI GC/MS GC/MS PCB's I NORM PLM (A: Chloride	Vol. 8 Semi. 3082 /	vol. 8 vol. 8 vol. 8 vol. 8	624 0270C/62	5		lion)		T Specify Method		

	Relinquished by:		Relinquished by:	There	Relinquished by:	SW-	-WS	-MS	.MS	-WS	.ws	BH-	ВН∹	BH-	ВН-	(LAB USE)	LAB #		Comments:	Accelving Laboratory:		invoice to:	(county, state)	Project Name:		Olione Name	4		Analysis Reque
	Date: Time:		Date: Time:	L glester	Date: Time:	SW-76 (0-4.5)	SW-75 (0-4.5')	SW-74 (8-13')	SW-73 (6-13')	SW-72 (0-8')	SW-62 (8-13')	BH-207 (4.5')	BH-206 (4.5')	BH-205 (4.5')	BH-204 (4.5')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff		Lea County, NM	Kaiser SWD	Permian Water Solutions		1014 1019 1110	Totro Tach Inc	Analysis Request of Chain of Custody Record
	Received by:		Received by:	Melit	Received by:	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	DATE	YEAR: 2020	SAMPLING					Project #:	<u>Clair.C</u>		Site Manager			
	Date: Time:		Date: Time:	7 9.30.22	Date: Time:	×	×	×	×	×	×	×	×	×	×	WATE SOIL HCL HNO ₃ ICE None	R	MATRIX PRESERVATIVE		Peyton Oliver			212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Fax (432) 682-3946	Tel (432) 682-4559	Midland, Texas 79705	
(Circle) HAND DELIVERED FEDEX UPS Tracking #:	Special Report Limits or TRRP Report	Rush Charges Authorized	Sample Temperature) X	×	×	×	×	×	×	×	×	×	×	PAH 8 Total M TCLP N TCLP S RCI GC/MS GC/MS PCB'S NORM PLM (A	RED (*) 8021B X1005 X100	BTE (Ext to GRO Ag As I (GRO Ag As Ses I (GRO) BY (GRO) B	EX 8260 c C35) - DRO - Ba Cd Cr Ba Cd C	ORO - Pb Se r Pb S	e Hg)			(Circle or Specify Method				1 age
	TRRP Report	۵	NT 48 NT /2 NT	5												Chloric	ie S al Wat		emistry		ttache	ed li	ist)		d No.)				

Page 69 of 72

Relinquished by:	Relinguished by:	Relinguished by:					LAB#			Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4
/: Date: Time:	7/20/2 Date: Time:	Date: Time:				SW-77 (0-4.5')	SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
Received by:	Received by:	Received by:				9/19/2022	DATE 2020	SAMPLING		Sampler Signature:		Project #		Site Manager	
Date: Time:	Date: Time:	>				×	WATER SOIL HCL HNO ₃ ICE None	MATRIX METHOD	-	Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	SUIW Wall Street, See Tou Midand, Texas 79705 Tel: (432) 882-4559 Fay: (432) 682-3946
Rush Charges Authorized Special Report Limits or TRRP Report	Sample Temperature	AR LISE ONLY				×	# CONTAIN FILTERED BTEX 8021E TPH TX100 TPH 8015M PAH 8270C Total Metals TCLP Metals TCLP Volatil TCLP Semi V RCI GC/MS Vol. GC/MS Vol. GC/MS Sem PCB's 8082 NORM PLM (Asbes Chloride	(Y/N) B B B 5 (Ext (GR0 Ag As s Ag A volatil 82600 81. Vol. 1 608	TEX 826 to C35) O - DRO S Ba Cd Cas Ba Cd es B / 624 8270C/6	ORO - Cr Pb Se Cr Pb Se	Hg			ANALYSIS REQUEST (Circle or Specify Method	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-3011-1

SDG Number: Lea County NM

Login Number: 3011 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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 Carlsbad

Released to Imaging: 9/1/2023 3:11:42 PM

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3011-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Source: Eurofins Midland List Creation: 09/21/22 11:23 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3011

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	N/A	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3411-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 11/14/2022 3:38:41 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3411-1 SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC VOA Qualifier

Qualifici	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

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, 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" Minimum Detectable Activity (Radiochemistry) MDA 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

Presumptive **PRES Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Released to Imaging: 9/1/2023 3:11:42 PM

Case Narrative

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Job ID: 890-3411-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3411-1

Receipt

The samples were received on 11/7/2022 2:58 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 29.8°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-210 (10') (890-3411-8). 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-39172 and analytical batch 880-39269 was outside the upper control limits.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-39172 and analytical batch 880-39269 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-39141 and analytical batch 880-39275 was outside the upper control limits.

Method 8015MOD NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-39141 and analytical batch 880-39275 were outside control limits. Non-homogeneity 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39128 and 880-39128 and analytical batch 880-39334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Lab Sample ID: 890-3411-1

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-200 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/12/22 22:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/12/22 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				11/09/22 15:36	11/12/22 22:14	1
1,4-Difluorobenzene (Surr)	106		70 - 130				11/09/22 15:36	11/12/22 22:14	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/14/22 16:13	1
Method: SW846 8015 NM - Diese	•		•	MDI	11-14	_	D	Austral	D!! F
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	74.9		50.0		mg/Kg			11/14/22 14:30	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (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		11/09/22 15:38	11/11/22 13:54	1
Diesel Range Organics (Over	74.9		50.0		mg/Kg		11/09/22 15:38	11/11/22 13:54	1
C10-C28)									'
•									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 13:54	
•	<50.0		50.0		mg/Kg		11/09/22 15:38 Prepared	11/11/22 13:54 Analyzed	1
OII Range Organics (Over C28-C36)					mg/Kg				1 Dil Fac
Oll Range Organics (Over C28-C36) Surrogate	%Recovery		Limits		mg/Kg		Prepared	Analyzed	1 Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 97 104	Qualifier	Limits 70 - 130 70 - 130		mg/Kg		Prepared 11/09/22 15:38	Analyzed 11/11/22 13:54	1 Dil Fac 1
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 97 104 s, lon Chromato	Qualifier	Limits 70 - 130 70 - 130	MDL		D	Prepared 11/09/22 15:38	Analyzed 11/11/22 13:54	1 Dil Fac

Client Sample ID: BH-201 (10')

Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 22:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 22:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 22:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/12/22 22:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 22:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/12/22 22:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				11/09/22 15:36	11/12/22 22:35	

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Lab Sample ID: 890-3411-2

Matrix: Solid

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-3411-1 SDG: Lea County NM

Lab Sample ID: 890-3411-2

Lab Sample ID: 890-3411-3

Matrix: Solid

Client Sample ID: BH-201 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Method: SW846 8021B - Volatile (Organic Compounds	(GC)	(Continued)
modification of the country to the country to	rigariio Compoundo		(Continuou)

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	114	70 - 130	11/09/22 15:36	11/12/22 22:35	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			11/14/22 16:13	1

Mathada OMO40 0045 NM Disasi Danas Onnanias (DDO) (OO	Α.
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	. 1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.3		50.0	mg/K	 g		11/14/22 14:30	1

	Mothod: SW046 904ED NM Diocol Dan	go Organico (DBO) (CC)	v
ı	Method: SW846 8015B NM - Diesel Ran	ge 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		11/09/22 15:38	11/11/22 14:16	1
Diesel Range Organics (Over C10-C28)	74.3		50.0		mg/Kg		11/09/22 15:38	11/11/22 14:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102	70 - 130	11/09/22 15:3	11/11/22 14:16	1
o-Terphenyl	109	70 - 130	11/09/22 15:3	88 11/11/22 14:16	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		49.6		mg/Kg			11/12/22 01:40	10

Client Sample ID: BH-204 (10')

Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

Sample Depth: 10

Mothodi CIMOAC 0004D	Valatila Organia Compounda (CC)

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/12/22 22:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/12/22 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/09/22 15:36	11/12/22 22:56	1
1,4-Difluorobenzene (Surr)	116		70 - 130				11/09/22 15:36	11/12/22 22:56	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			11/14/22 16:13	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		_	11/14/22 14:30	1

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Matrix: Solid

Lab Sample ID: 890-3411-3

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-204 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 14:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 14:37	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				11/09/22 15:38	11/11/22 14:37	1
o-Terphenyl	118		70 - 130				11/09/22 15:38	11/11/22 14:37	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

25.0 11/12/22 01:47 Chloride 2010 mg/Kg Client Sample ID: BH-205 (10') Lab Sample ID: 890-3411-4

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 23:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 23:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 23:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:36	11/12/22 23:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 23:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:36	11/12/22 23:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				11/09/22 15:36	11/12/22 23:17	1
1,4-Difluorobenzene (Surr)	114		70 - 130				11/09/22 15:36	11/12/22 23:17	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Method: SW846 8015 NM - Diese									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH - -	<50.0	U	50.0		mg/Kg			11/14/22 14:30	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (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		11/09/22 15:38	11/11/22 14:59	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 14:59	1
C10-C28)	∠ E0.0		E0.0		no ar /1/ ar		44/00/22 45:29	44/44/22 44.50	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 14:59	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	- 88		70 - 130				11/09/22 15:38	11/11/22 14:59	1

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11/11/22 14:59

11/09/22 15:38

70 - 130

o-Terphenyl

Lab Sample ID: 890-3411-4

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-205 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		25.1		mg/Kg			11/12/22 01:54	5

Client Sample ID: BH-206 (10') Lab Sample ID: 890-3411-5 Matrix: Solid

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/12/22 23:37	
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/12/22 23:37	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/12/22 23:37	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:36	11/12/22 23:37	
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/12/22 23:37	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:36	11/12/22 23:37	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	102		70 - 130				11/09/22 15:36	11/12/22 23:37	
1,4-Difluorobenzene (Surr)	116		70 - 130				11/09/22 15:36	11/12/22 23:37	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Allalyte	rtoouit		• • •		•				
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 16:13	
Total BTEX Method: SW846 8015 NM - Diese	<0.00402	U	0.00402	MDL	mg/Kg		Prepared		
Total BTEX	<0.00402	ics (DRO) (Qualifier	0.00402 GC)		mg/Kg	<u>D</u>		11/14/22 16:13	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	<0.00402 el Range Organ Result <49.9	ics (DRO) (Gualifier	0.00402 GC) RL 49.9		mg/Kg Unit	<u>D</u>		11/14/22 16:13 Analyzed	Dil Fa
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	<0.00402 el Range Organ Result <49.9 sel Range Orga	ics (DRO) (Gualifier	0.00402 GC) RL 49.9		mg/Kg Unit mg/Kg	<u>D</u>		11/14/22 16:13 Analyzed	Dil Fa
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00402 el Range Organ Result <49.9 sel Range Orga	ics (DRO) ((Qualifier U)	0.00402 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	=	Prepared	11/14/22 16:13 Analyzed 11/14/22 14:30	Dil Fa
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00402 el Range Organ Result <49.9 sel Range Orga Result	ics (DRO) (Oualifier Unics (DRO) Qualifier Unics (DRO)	0.00402 GC) RL 49.9 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	=	Prepared Prepared	11/14/22 16:13 Analyzed 11/14/22 14:30 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00402 el Range Organ Result <p>49.9 sel Range Orga Result 49.9</p>	ics (DRO) (Outline DRO) Qualifier U nics (DRO) Qualifier U	0.00402 GC) RL 49.9 (GC) RL 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	=	Prepared Prepared 11/09/22 15:38	Analyzed Analyzed Analyzed 11/14/22 14:30 Analyzed 11/11/22 15:21	Dil Fa
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00402 el Range Organ Result <49.9 Sel Range Orga Result <49.9 <49.9	ics (DRO) (CQualifier U	0.00402 GC) RL 49.9 (GC) RL 49.9 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared Prepared 11/09/22 15:38 11/09/22 15:38	Analyzed 11/14/22 16:13 Analyzed 11/14/22 14:30 Analyzed 11/11/22 15:21 11/11/22 15:21	Dil Fa
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00402 el Range Organ Result <49.9 <49.9 <49.9	ics (DRO) (CQualifier U	0.00402 GC) RL 49.9 (GC) RL 49.9 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared Prepared 11/09/22 15:38 11/09/22 15:38	Analyzed 11/14/22 16:13 Analyzed 11/14/22 14:30 Analyzed 11/11/22 15:21 11/11/22 15:21 11/11/22 15:21	Dil Fa

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Analyzed 11/12/22 02:01

RL

25.2

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

2290

Dil Fac

Analyte

Chloride

Lab Sample ID: 890-3411-6

Client: Tetra Tech, Inc.

Job ID: 890-3411-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-208 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 23:58	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 23:58	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 23:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/12/22 23:58	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 23:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/12/22 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/09/22 15:36	11/12/22 23:58	1
1,4-Difluorobenzene (Surr)	114		70 - 130				11/09/22 15:36	11/12/22 23:58	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:13	1
: Method: SW846 8015 NM - Diese			GC)			_			
		ics (DRO) (MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese		Qualifier	GC)	MDL		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier U	GC) RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <49.9 sel Range Orga	Qualifier U	GC) RL 49.9	MDL MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga	Qualifier U nics (DRO) Qualifier	GC) RL 49.9		Unit mg/Kg	=		Analyzed 11/14/22 14:30	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL		Unit mg/Kg	=	Prepared	Analyzed 11/14/22 14:30 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result <49.9 49.9	Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9		Unit mg/Kg Unit mg/Kg	=	Prepared 11/09/22 15:38	Analyzed 11/14/22 14:30 Analyzed 11/11/22 15:43	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/09/22 15:38	Analyzed 11/14/22 14:30 Analyzed 11/11/22 15:43 11/11/22 15:43	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/09/22 15:38 11/09/22 15:38	Analyzed 11/14/22 14:30 Analyzed 11/11/22 15:43 11/11/22 15:43 11/11/22 15:43	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared	Analyzed 11/14/22 14:30 Analyzed 11/11/22 15:43 11/11/22 15:43 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/14/22 14:30 Analyzed 11/11/22 15:43 11/11/22 15:43 Analyzed 11/11/22 15:43	Dil Fac 1 1 Dil Fac 1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	=	Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/14/22 14:30 Analyzed 11/11/22 15:43 11/11/22 15:43 Analyzed 11/11/22 15:43	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: BH-209 (10')

Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 00:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 00:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 00:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 00:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 00:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/09/22 15:36	11/13/22 00:19	

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Lab Sample ID: 890-3411-7

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Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3411-1

SDG: Lea County NM

Client Sample ID: BH-209 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Matrix: Solid

Lab Sample ID: 890-3411-7

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 11/09/22 15:36 1,4-Difluorobenzene (Surr) 115 11/13/22 00:19

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00398 0.00398 11/14/22 16:13 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 50.0 mg/Kg 11/14/22 14:30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <50.0 U 50.0 mg/Kg 11/11/22 16:26 Gasoline Range Organics 11/09/22 15:38 (GRO)-C6-C10 <50.0 U 50.0 11/09/22 15:38 11/11/22 16:26 Diesel Range Organics (Over mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/09/22 15:38 11/11/22 16:26

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 117 70 - 130 11/09/22 15:38 11/11/22 16:26 o-Terphenyl 124 70 - 130 11/09/22 15:38 11/11/22 16:26

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 49.6 11/12/22 02:30 Chloride 4470 mg/Kg

Client Sample ID: BH-210 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

REMOVED FROM **ANALYSIS TABLE** Lab Sample ID: 890-3411-8

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 0.00200 mg/Kg 11/09/22 15:36 11/13/22 00:40 0.00200 11/09/22 15:36 11/13/22 00:40 mg/Kg **Toluene** 0.0775 0.00200 11/09/22 15:36 11/13/22 00:40 Ethylbenzene 0.0695 mg/Kg 0.00399 11/13/22 00:40 11/09/22 15:36 m-Xylene & p-Xylene mg/Kg 0.135 o-Xylene 0.0758 0.00200 mg/Kg 11/09/22 15:36 11/13/22 00:40 0.00399 mg/Kg 11/09/22 15:36 11/13/22 00:40 **Xylenes, Total** 0.211

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed S1+ 70 - 130 4-Bromofluorobenzene (Surr) 134 11/09/22 15:36 11/13/22 00:40 1,4-Difluorobenzene (Surr) 99 70 - 130 11/09/22 15:36 11/13/22 00:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier MDL D RL Unit Prepared Analyzed Dil Fac 0.00399 11/14/22 16:13 **Total BTEX** 0.358 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 50.0 11/14/22 14:30 2430 mg/Kg

Client Sample Results

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-210 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58 Sample Depth: 10

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3411-8

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	61.9		50.0		mg/Kg		11/09/22 15:38	11/11/22 16:48	1
Diesel Range Organics (Over C10-C28)	2130		50.0		mg/Kg		11/09/22 15:38	11/11/22 16:48	1
Oll Range Organics (Over C28-C36)	237		50.0		mg/Kg		11/09/22 15:38	11/11/22 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				11/09/22 15:38	11/11/22 16:48	1
o-Terphenyl	111		70 - 130				11/09/22 15:38	11/11/22 16:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier MDL Unit Analyte RLD Prepared Analyzed Dil Fac Chloride 2270 25.0 11/12/22 02:37 mg/Kg

Client Sample ID: BH-211 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Lab Sample ID: 890-3411-9 **Matrix: Solid**

Analyzed

11/13/22 01:00

11/13/22 01:00

Dil Fac

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier MDL Unit Analyte RL D Prepared Benzene <0.00199 U 0.00199 mg/Kg 11/09/22 15:36 Toluene <0.00199 U 0.00199 mg/Kg 11/09/22 15:36

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Ethylbenzene <0.00199 U 0.00199 mg/Kg 11/09/22 15:36 11/13/22 01:00 m-Xylene & p-Xylene <0.00398 U 0.00398 mg/Kg 11/09/22 15:36 11/13/22 01:00 o-Xylene <0.00199 U 0.00199 mg/Kg 11/09/22 15:36 11/13/22 01:00 Xylenes, Total <0.00398 U 0.00398 mg/Kg 11/09/22 15:36 11/13/22 01:00

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123	70 - 130	11/09/22 15:36	11/13/22 01:00	1
1,4-Difluorobenzene (Surr)	115	70 - 130	11/09/22 15:36	11/13/22 01:00	1
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Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier MDL Unit Dil Fac RL D Prepared Analyzed Total BTEX <0.00398 U 0.00398 11/14/22 16:13 mg/Kg

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (GC	;)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			11/14/22 14:30	1

Total IPH	<50.0	U	50.0		mg/Kg			11/14/22 14:30	1
Method: SW846 8015B NM - Diesel Rai	nge Orga	anics (DRO) (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 17:09	1
(GRO)-C6-C10									

1-Chlorooctane	120		70 - 130		11/09/22 15:38	11/11/22 17:09	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	11/09/22 15:38	11/11/22 17:09	1
C10-C28)	100.0	Ü	00.0	mg/Kg	11/03/22 10:00	11/11/22 17:00	

70 - 130

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11/11/22 17:00

11/11/22 17:09

11/00/22 15:38

11/09/22 15:38

Diesel Range Organics (Over

o-Terphenyl

Lab Sample ID: 890-3411-9

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-211 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

١	Method: MCAWW 300.0 - Anions, lo	on Chromato	graphy - Sol	uble						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	2230		24.9		mg/Kg			11/12/22 02:44	5

Client Sample ID: BH-212 (10')

Date Collected: 11/07/22 00:00

Lab Sample ID: 890-3411-10

Matrix: Solid

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:21	
Toluene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:21	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:21	
m-Xylene & p-Xylene	0.0209		0.00398		mg/Kg		11/09/22 15:36	11/13/22 01:21	
o-Xylene	0.0186		0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:21	
Xylenes, Total	0.0395		0.00398		mg/Kg		11/09/22 15:36	11/13/22 01:21	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	110		70 - 130				11/09/22 15:36	11/13/22 01:21	
1,4-Difluorobenzene (Surr)	101		70 - 130				11/09/22 15:36	11/13/22 01:21	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total DTEV	0.0395		0.00398		mg/Kg			11/14/22 16:13	
Total BTEX		: (DDO) (mg/rtg			11/14/22 10:10	
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ	ics (DRO) (MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/14/22 14:30	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result 228	Qualifier	GC) RL 50.0	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result 228 sel Range Orga	Qualifier nics (DRO)	GC) RL 50.0		Unit mg/Kg			Analyzed 11/14/22 14:30	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	el Range Organ Result 228 sel Range Orga Result	Qualifier nics (DRO) Qualifier	GC) RL 50.0 (GC) RL		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/14/22 14:30 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result 228 sel Range Orga	Qualifier nics (DRO) Qualifier	GC) RL 50.0		Unit mg/Kg			Analyzed 11/14/22 14:30	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result 228 sel Range Orga Result	Qualifier nics (DRO) Qualifier	GC) RL 50.0 (GC) RL		Unit mg/Kg		Prepared	Analyzed 11/14/22 14:30 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 228 sel Range Orga Result <50.0	Qualifier nics (DRO) Qualifier	GC) RL 50.0 (GC) RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 11/09/22 15:38	Analyzed 11/14/22 14:30 Analyzed 11/11/22 17:32	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 228 sel Range Orga Result <50.0	Qualifier nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 11/09/22 15:38	Analyzed 11/14/22 14:30 Analyzed 11/11/22 17:32	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result 228 sel Range Orga Result <50.0	Qualifier nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38 11/09/22 15:38	Analyzed 11/14/22 14:30 Analyzed 11/11/22 17:32 11/11/22 17:32	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	sel Range Organ Result 228 sel Range Orga Result <50.0 228	Qualifier nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38 11/09/22 15:38	Analyzed 11/14/22 14:30 Analyzed 11/11/22 17:32 11/11/22 17:32 11/11/22 17:32	Dil Fa
Method: SW846 8015 NM - Diese Analyte	sel Range Organ Result 228 sel Range Orga Result <50.0 228 <50.0 %Recovery	Qualifier nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared	Analyzed 11/14/22 14:30 Analyzed 11/11/22 17:32 11/11/22 17:32 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Range Organ Result	Qualifier nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/14/22 14:30 Analyzed 11/11/22 17:32 11/11/22 17:32 Analyzed 11/11/22 17:32	Dil Fa

11/12/22 02:51

25.2

mg/Kg

Released to Imaging: 9/1/2023 3:11:42 PM

Chloride

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Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-75 (4-10') Date Collected: 11/07/22 00:00

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3411-11

Matrix: Solid

Date Received: 11/07/22 14:58 Sample Depth: 4 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 02:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 02:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 02:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/13/22 02:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 02:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/13/22 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				11/09/22 15:36	11/13/22 02:45	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/09/22 15:36	11/13/22 02:45	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	П	0.00401		mg/Kg			11/14/22 16:13	1

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 17:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 17:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				11/09/22 15:38	11/11/22 17:54	1
o-Terphenyl	98		70 - 130				11/09/22 15:38	11/11/22 17:54	1

Method: MCAWW 300.0 - Anions, le	on Chromato	graphy - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14500	F1	100		mg/Kg			11/12/22 02:58	20

Client Sample ID: SW-78 (4-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58 Sample Depth: 4 - 10 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3411-12

Matrix: Solid

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/13/22 03:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/13/22 03:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/13/22 03:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:36	11/13/22 03:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/13/22 03:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:36	11/13/22 03:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/09/22 15:36	11/13/22 03:05	1

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Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-78 (4-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58 Sample Depth: 4 - 10



Lab Sample ID: 890-3411-12

Matrix: Solid

Method: SW846 8021B	- Volatile Organic Compou	inds (GC) (Continued)
Method. 344040 0021D	- voiatile Organic Compou	ilius (GC) (Colluliueu)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	120	70 - 130	11/09/22 15:36	11/13/22 03:05	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			11/14/22 16:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepa	red Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 14:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 18:15	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 18:15	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	111	70 - 130
o-Terphenyl	121	70 - 130

Surroyale	/orecovery	Quanner	Liiiits		rrepareu	Allalyzeu	DII Fac
1-Chlorooctane	111		70 - 130	_	11/09/22 15:38	11/11/22 18:15	1
o-Terphenyl	121		70 - 130		11/09/22 15:38	11/11/22 18:15	1
-							

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15800	250		mg/Kg			11/12/22 03:20	50

Client Sample ID: SW-79 (4-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58 Sample Depth: 4 - 10

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3411-13

Matrix: Solid

Method:	SW846	8021R -	Volatile	Organic	Compounds	(GC)

momound official collins	rolatilo organio comp		,						
Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	r	mg/Kg		11/09/22 15:36	11/13/22 03:26	1
Toluene	<0.00199	U	0.00199	r	mg/Kg		11/09/22 15:36	11/13/22 03:26	1
Ethylbenzene	<0.00199	U	0.00199	r	mg/Kg		11/09/22 15:36	11/13/22 03:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	r	mg/Kg		11/09/22 15:36	11/13/22 03:26	1
o-Xylene	<0.00199	U	0.00199	r	mg/Kg		11/09/22 15:36	11/13/22 03:26	1
Xylenes, Total	<0.00398	U	0.00398	r	mg/Kg		11/09/22 15:36	11/13/22 03:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/09/22 15:36	11/13/22 03:26	1
1,4-Difluorobenzene (Surr)	114		70 - 130				11/09/22 15:36	11/13/22 03:26	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			11/14/22 16:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/14/22 14:30	1

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

RL

49.9

49.9

49.9

RL

24.8

Limits

70 - 130

70 - 130

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

11/09/22 15:38

11/09/22 15:38

11/09/22 15:38

Client Sample ID: SW-79 (4-10') Date Collected: 11/07/22 00:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Date Received: 11/07/22 14:58 Sample Depth: 4 - 10

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

REMOVED FROM ANALYSIS TABLE

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

%Recovery Qualifier

Result Qualifier

110

116

1120

Lab Sample ID: 890-3411-13

Matrix: Solid

	Analyzed	Dil Fac	
•	11/11/22 18:37	1	
	11/11/22 18:37	1	
	11/11/22 18:37	1	

Prepared Analyzed Dil Fac 11/09/22 15:38 11/11/22 18:37 11/09/22 15:38 11/11/22 18:37

Prepared D Dil Fac Analyzed 11/12/22 03:27

Client Sample ID: SW-80 (4.5-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 4.5 - 10

Lab	Sample	ID:	890-	34	11-	14

Matrix: Solid

Method: SW846 8021B - Vola	tile Organic Comp	ounds (GC)					6 11/13/22 03:47 6 11/13/22 03:47	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 03:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 03:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 03:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 03:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 03:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 03:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				11/09/22 15:36	11/13/22 03:47	1

Surrogate	%Recovery	Quaimer	Limits	Prepared	Analyzea	DII Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	11/09/22 15:36	11/13/22 03:47	1
1,4-Difluorobenzene (Surr)	107		70 - 130	11/09/22 15:36	11/13/22 03:47	1
_						

Method: TAL SOP Total BTEX - Total	BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:13	1

Method: SW846 8015 NM - Diesel Rang	je Organ	ics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	263		50.0		mg/Kg			11/14/22 14:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 18:59	1
Diesel Range Organics (Over C10-C28)	263		50.0		mg/Kg		11/09/22 15:38	11/11/22 18:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	11/09/22 15:38	11/11/22 18:59	1
o-Terphenyl	98		70 - 130	11/09/22 15:38	11/11/22 18:59	1

Client: Tetra Tech, Inc.

Job ID: 890-3411-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-80 (4.5-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 4.5 - 10

Lab Sample ID: 890-3411-14

Matrix: Solid

Method: MCAWW 300.0 - Anions,	lon Chromatography - S	oluble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8690	101	mg/Kg			11/12/22 03:48	20

Client Sample ID: SW-81 (4.5-10')

Lab Sample ID: 890-3411-15

Date Collected: 11/07/22 00:00 Matrix: Solid

Date Received: 11/07/22 14:58 Sample Depth: 4.5 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 04:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 04:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 04:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/13/22 04:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 04:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/13/22 04:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				11/09/22 15:36	11/13/22 04:07	1
1,4-Difluorobenzene (Surr)	103		70 - 130				11/09/22 15:36	11/13/22 04:07	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/14/22 16:13	1
Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	192		49.9		mg/Kg			11/14/22 14:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 19:21	
Diesel Range Organics (Over C10-C28)	192		49.9		mg/Kg		11/09/22 15:38	11/11/22 19:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 19:21	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				11/09/22 15:38	11/11/22 19:21	1
o-Terphenyl	101		70 ₋ 130				11/09/22 15:38	11/11/22 19:21	1

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - So	luble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8120		100		mg/Kg			11/12/22 03:55	20

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Lab Sample ID: 890-3411-16

Client: Tetra Tech, Inc.

Job ID: 890-3411-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-82 (4.5-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 4.5 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/09/22 15:36	11/13/22 04:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/09/22 15:36	11/13/22 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				11/09/22 15:36	11/13/22 04:28	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/09/22 15:36	11/13/22 04:28	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/14/22 16:13	1
Analyte Total TDU		Qualifier	RL 49.8	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	216		49 X						
			10.0		IIIg/Kg			11/14/22 14:30	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)			ilig/Kg			11/14/22 14:30	1
	•	nics (DRO) Qualifier		MDL		D	Prepared	11/14/22 14:30 Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	(GC)	MDL		<u>D</u>	Prepared 11/09/22 15:38		
Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier	(GC)	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8	Qualifier U	(GC) RL 49.8	MDL	Unit mg/Kg	<u> </u>	11/09/22 15:38	Analyzed 11/11/22 19:43	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 216	Qualifier U	(GC) RL 49.8	MDL	Unit mg/Kg mg/Kg	<u> </u>	11/09/22 15:38 11/09/22 15:38	Analyzed 11/11/22 19:43 11/11/22 19:43	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 216 <49.8	Qualifier U	(GC) RL 49.8 49.8 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/09/22 15:38 11/09/22 15:38 11/09/22 15:38	Analyzed 11/11/22 19:43 11/11/22 19:43 11/11/22 19:43	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U	(GC) RL 49.8 49.8 49.8 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared	Analyzed 11/11/22 19:43 11/11/22 19:43 11/11/22 19:43 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier	(GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/11/22 19:43 11/11/22 19:43 11/11/22 19:43 Analyzed 11/11/22 19:43	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier	(GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/11/22 19:43 11/11/22 19:43 11/11/22 19:43 Analyzed 11/11/22 19:43	Dil Fac

Client Sample ID: SW-83 (4-10)

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Date Received. 11/01/22 14.50

Sample Depth: 4 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/09/22 15:36	11/13/22 04:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:49	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/09/22 15:36	11/13/22 04:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				11/09/22 15:36	11/13/22 04:49	

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Lab Sample ID: 890-3411-17

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-83 (4-10)

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58 Sample Depth: 4 - 10 REMOVED FROM ANALYSIS TABLE

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3411-17

Matrix: Solid

x: Solid

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	110	70 - 130	11/09/22 15:36	11/13/22 04:49	1

Method: TAL SOP Total BTEX - To	tal BTEX Calc	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/14/22 16:13	1

Method: SW846 8015 NM - Diesel F	Range Organi	ics (DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 09:30	1

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		11/10/22 08:48	11/11/22 18:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 18:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				11/10/22 08:48	11/11/22 18:00	1
o-Terphenyl	87		70 - 130				11/10/22 08:48	11/11/22 18:00	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	714		4.96		mg/Kg			11/12/22 04:09	1

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
	011 40 4 15			
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	· —— —— —— —— —— —
890-3411-1	BH-200 (10')	94	106	
890-3411-1 MS	BH-200 (10')	77	102	
890-3411-1 MSD	BH-200 (10')	95	96	
890-3411-2	BH-201 (10')	97	114	
890-3411-3	BH-204 (10')	99	116	
890-3411-4	BH-205 (10')	106	114	
890-3411-5	BH-206 (10')	102	116	
890-3411-6	BH-208 (10')	124	114	
890-3411-7	BH-209 (10')	111	115	
890-3411-8	BH-210 (10')	134 S1+	99	
890-3411-9	BH-211 (10')	123	115	
890-3411-10	BH-212 (10')	110	101	
890-3411-11	SW-75 (4-10')	104	100	
890-3411-12	SW-78 (4-10')	112	120	
890-3411-13	SW-79 (4-10')	112	114	
890-3411-14	SW-80 (4.5-10')	110	107	
890-3411-15	SW-81 (4.5-10')	114	103	
890-3411-16	SW-82 (4.5-10')	115	111	
890-3411-17	SW-83 (4-10)	108	110	
LCS 880-39140/1-A	Lab Control Sample	81	100	
LCSD 880-39140/2-A	Lab Control Sample Dup	77	104	
MB 880-39140/5-A	Method Blank	89	100	

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)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-21336-A-28-D MS	Matrix Spike	95	92	
880-21336-A-28-E MSD	Matrix Spike Duplicate	84	80	
890-3402-A-1-G MS	Matrix Spike	86	79	
890-3402-A-1-H MSD	Matrix Spike Duplicate	82	73	
890-3411-1	BH-200 (10')	97	104	
890-3411-2	BH-201 (10')	102	109	
890-3411-3	BH-204 (10')	113	118	
890-3411-4	BH-205 (10')	88	94	
890-3411-5	BH-206 (10')	103	109	
890-3411-6	BH-208 (10')	94	102	
890-3411-7	BH-209 (10')	117	124	
890-3411-8	BH-210 (10')	108	111	
890-3411-9	BH-211 (10')	120	129	
890-3411-10	BH-212 (10')	99	102	
890-3411-11	SW-75 (4-10')	92	98	
890-3411-12	SW-78 (4-10')	111	121	
890-3411-13	SW-79 (4-10')	110	116	

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

		1CO1	ОТРН1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3411-14	SW-80 (4.5-10')	93	98	
890-3411-15	SW-81 (4.5-10')	95	101	
390-3411-16	SW-82 (4.5-10')	90	95	
390-3411-17	SW-83 (4-10)	88	87	
CS 880-39141/2-A	Lab Control Sample	104	116	
CS 880-39172/2-A	Lab Control Sample	94	97	
CSD 880-39141/3-A	Lab Control Sample Dup	104	116	
CSD 880-39172/3-A	Lab Control Sample Dup	107	109	
MB 880-39141/1-A	Method Blank	121	136 S1+	
MB 880-39172/1-A	Method Blank	119	134 S1+	

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39140/5-A

Matrix: Solid Analysis Batch: 39369 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39140

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	•
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepai	red	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	11/09/22	15:36	11/12/22 21:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/09/22	15:36	11/12/22 21:52	1

Lab Sample ID: LCS 880-39140/1-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39140

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09752		mg/Kg		98	70 - 130	
Toluene	0.100	0.09567		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.08894		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1685		mg/Kg		84	70 - 130	
o-Xylene	0.100	0.09351		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	81	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-39140/2-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39140

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09869		mg/Kg		99	70 - 130	1	35	
Toluene	0.100	0.09592		mg/Kg		96	70 - 130	0	35	
Ethylbenzene	0.100	0.09030		mg/Kg		90	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.1711		mg/Kg		86	70 - 130	2	35	
o-Xylene	0.100	0.09589		mg/Kg		96	70 - 130	3	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	77	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: 890-3411-1 MS

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: BH-200 (10')

Prep Type: Total/NA

Prep Batch: 39140

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09300		mg/Kg		93	70 - 130	
Toluene	<0.00200	U	0.0996	0.08826		mg/Kg		89	70 - 130	

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Client Sample ID: BH-200 (10')

Client Sample ID: BH-200 (10')

Prep Type: Total/NA

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3411-1 MS

Analysis Batch: 39369

Matrix: Solid

Analysis Batch: 39369									Prep	Batch: 39140
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0996	0.07882		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1462		mg/Kg		73	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.08198		mg/Kg		82	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	77	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 890-3411-1 MSD

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 39369 Prep Batch: 39140

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0998	0.08398		mg/Kg		84	70 - 130	10	35
Toluene	<0.00200	U	0.0998	0.08420		mg/Kg		84	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0998	0.08062		mg/Kg		81	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1625		mg/Kg		81	70 - 130	11	35
o-Xylene	<0.00200	U	0.0998	0.09115		mg/Kg		91	70 - 130	11	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

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Lab Sample ID: MB 880-39141/1-A	Client Sample ID: Method Blank
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 39275	Prep Batch: 39141
MD MD	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 09:13	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 09:13	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 09:13	1

MB MB Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 70 - 130 11/11/22 09:13 1-Chlorooctane 121 11/09/22 15:38 70 - 130 11/09/22 15:38 o-Terphenyl 136 S1+ 11/11/22 09:13

Lab Sample ID: LCS 880-39141/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 39275							Prep E	3atch: 39141
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	971.0		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	884.0		mg/Kg		88	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Job ID: 890-3411-1 SDG: Lea County NM

Project/Site: Kaiser SWD Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-39141/2-A

Matrix: Solid

Analysis Batch: 39275

Client: Tetra Tech, Inc.

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39141

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 104 70 - 130 o-Terphenyl 116 70 - 130

Lab Sample ID: LCSD 880-39141/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 39275

Prep Type: Total/NA

Prep Batch: 39141 %Rec RPD

Spike LCSD LCSD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1108 111 70 - 130 13 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 910.3 91 mg/Kg 70 - 1303 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 104 70 - 130 1-Chlorooctane o-Terphenyl 116 70 - 130

Lab Sample ID: 880-21336-A-28-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 39275

Prep Type: Total/NA

Prep Batch: 39141

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	182		997	969.9		mg/Kg		79	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	1820	F1	997	2679		mg/Kg		86	70 - 130	
C10-C28\										

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 95 o-Terphenyl 92 70 - 130

Lab Sample ID: 880-21336-A-28-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 39275

Prep Type: Total/NA

Prep Batch: 39141

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	182		999	1151		mg/Kg		97	70 - 130	17	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	1820	F1	999	2326	F1	mg/Kg		51	70 - 130	14	20	
C10-C28)												

C10-C28)

MSD MSD

Surrogate	%Recovery Qua	alifier Limits
1-Chlorooctane	84	70 - 130
o-Terphenyl	80	70 - 130

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-39172/1-A

Lab Sample ID: LCS 880-39172/2-A

Matrix: Solid

Analysis Batch: 39269

Matrix: Solid Analysis Batch: 39269 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 39172

ı		IVID	IVID							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
	(GRO)-C6-C10									
	Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
	C10-C28)									
	OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
		MP	MP							

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	11/10/22 08:48	11/11/22 09:30	1
o-Terphenyl	134	S1+	70 - 130	11/10/22 08:48	11/11/22 09:30	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	815.5		mg/Kg		82	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	846.7		mg/Kg		85	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	94	70 - 130
o-Terphenyl	97	70 - 130

Lab Sample ID: LCSD 880-39172/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1003	*1	mg/Kg		100	70 - 130	21	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	950.2		mg/Kg		95	70 - 130	12	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 890-3402-A-1-G MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 39269** Prep Batch: 39172

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	55.1	*1	997	1007		mg/Kg		95	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	997	861.7		mg/Kg		84	70 - 130	
C10-C28)										

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Matrix Spike Lab Sample ID: 890-3402-A-1-G MS

Matrix: Solid

Analysis Batch: 39269

Prep Type: Total/NA Prep Batch: 39172

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 86 70 - 130 o-Terphenyl 79 70 - 130

Lab Sample ID: 890-3402-A-1-H MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 55 1 *1 999 978.6 92 70 - 1303 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 796.8 <50.0 U mg/Kg 77 70 - 13020 8 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 82 70 - 130 1-Chlorooctane 73 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39128/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39334

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Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 11/12/22 00:57

Lab Sample ID: LCS 880-39128/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39334

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 268.3 mg/Kg 107 90 - 110

Lab Sample ID: LCSD 880-39128/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 39334

Spike LCSD LCSD %Rec Added Analyte Result Qualifier Unit D %Rec Limits RPD Chloride 250 268.7 107 90 - 110 20 mg/Kg

Client Sample ID: BH-200 (10') Lab Sample ID: 890-3411-1 MS

Matrix: Solid

Analysis Batch: 39334

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	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2280	F1	1260	3520		mg/Kg		98	90 - 110	

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Prep Type: Soluble

RPD Limit

Prep Type: Soluble

QC Sample Results

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3411-1 MSD Client Sample ID: BH-200 (10') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 39334

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits RPD Limit Chloride 2280 F1 1260 3707 F1 mg/Kg 113 90 - 110

Lab Sample ID: 890-3411-11 MS Client Sample ID: SW-75 (4-10') **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 39334 Spike MS MS %Rec

Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 14500 F1 5010 21010 F1 mg/Kg 130 90 - 110

Lab Sample ID: 890-3411-11 MSD Client Sample ID: SW-75 (4-10')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 39334

MSD MSD Sample Sample Spike

Sample Sample

%Rec RPD Analyte Result Qualifier Added Result Qualifier Unit Limits **RPD** Limit Chloride 14500 F1 5010 20560 F1 121 90 - 110 20 mg/Kg

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 39140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3411-1	BH-200 (10')	Total/NA	Solid	5035	
890-3411-2	BH-201 (10')	Total/NA	Solid	5035	
890-3411-3	BH-204 (10')	Total/NA	Solid	5035	
890-3411-4	BH-205 (10')	Total/NA	Solid	5035	
890-3411-5	BH-206 (10')	Total/NA	Solid	5035	
890-3411-6	BH-208 (10')	Total/NA	Solid	5035	
890-3411-7	BH-209 (10')	Total/NA	Solid	5035	
890-3411-8	BH-210 (10')	Total/NA	Solid	5035	
890-3411-9	BH-211 (10')	Total/NA	Solid	5035	
890-3411-10	BH-212 (10')	Total/NA	Solid	5035	
890-3411-11	SW-75 (4-10')	Total/NA	Solid	5035	
890-3411-12	SW-78 (4-10')	Total/NA	Solid	5035	
890-3411-13	SW-79 (4-10')	Total/NA	Solid	5035	
890-3411-14	SW-80 (4.5-10')	Total/NA	Solid	5035	
890-3411-15	SW-81 (4.5-10')	Total/NA	Solid	5035	
890-3411-16	SW-82 (4.5-10')	Total/NA	Solid	5035	
890-3411-17	SW-83 (4-10)	Total/NA	Solid	5035	
MB 880-39140/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3411-1 MS	BH-200 (10')	Total/NA	Solid	5035	
890-3411-1 MSD	BH-200 (10')	Total/NA	Solid	5035	

Analysis Batch: 39369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-1	BH-200 (10')	Total/NA	Solid	8021B	39140
890-3411-2	BH-201 (10')	Total/NA	Solid	8021B	39140
890-3411-3	BH-204 (10')	Total/NA	Solid	8021B	39140
890-3411-4	BH-205 (10')	Total/NA	Solid	8021B	39140
890-3411-5	BH-206 (10')	Total/NA	Solid	8021B	39140
890-3411-6	BH-208 (10')	Total/NA	Solid	8021B	39140
890-3411-7	BH-209 (10')	Total/NA	Solid	8021B	39140
890-3411-8	BH-210 (10')	Total/NA	Solid	8021B	39140
890-3411-9	BH-211 (10')	Total/NA	Solid	8021B	39140
390-3411-10	BH-212 (10')	Total/NA	Solid	8021B	39140
390-3411-11	SW-75 (4-10')	Total/NA	Solid	8021B	39140
890-3411-12	SW-78 (4-10')	Total/NA	Solid	8021B	39140
890-3411-13	SW-79 (4-10')	Total/NA	Solid	8021B	39140
390-3411-14	SW-80 (4.5-10')	Total/NA	Solid	8021B	39140
390-3411-15	SW-81 (4.5-10')	Total/NA	Solid	8021B	39140
890-3411-16	SW-82 (4.5-10')	Total/NA	Solid	8021B	39140
890-3411-17	SW-83 (4-10)	Total/NA	Solid	8021B	39140
MB 880-39140/5-A	Method Blank	Total/NA	Solid	8021B	39140
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	8021B	39140
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39140
890-3411-1 MS	BH-200 (10')	Total/NA	Solid	8021B	39140
890-3411-1 MSD	BH-200 (10')	Total/NA	Solid	8021B	39140

Analysis Batch: 39551

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-1	BH-200 (10')	Total/NA	Solid	Total BTEX	

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Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 39551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-2	BH-201 (10')	Total/NA	Solid	Total BTEX	
890-3411-3	BH-204 (10')	Total/NA	Solid	Total BTEX	
890-3411-4	BH-205 (10')	Total/NA	Solid	Total BTEX	
890-3411-5	BH-206 (10')	Total/NA	Solid	Total BTEX	
890-3411-6	BH-208 (10')	Total/NA	Solid	Total BTEX	
890-3411-7	BH-209 (10')	Total/NA	Solid	Total BTEX	
890-3411-8	BH-210 (10')	Total/NA	Solid	Total BTEX	
890-3411-9	BH-211 (10')	Total/NA	Solid	Total BTEX	
890-3411-10	BH-212 (10')	Total/NA	Solid	Total BTEX	
890-3411-11	SW-75 (4-10')	Total/NA	Solid	Total BTEX	
890-3411-12	SW-78 (4-10')	Total/NA	Solid	Total BTEX	
890-3411-13	SW-79 (4-10')	Total/NA	Solid	Total BTEX	
890-3411-14	SW-80 (4.5-10')	Total/NA	Solid	Total BTEX	
890-3411-15	SW-81 (4.5-10')	Total/NA	Solid	Total BTEX	
890-3411-16	SW-82 (4.5-10')	Total/NA	Solid	Total BTEX	
890-3411-17	SW-83 (4-10)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 39141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-1	BH-200 (10')	Total/NA	Solid	8015NM Prep	
890-3411-2	BH-201 (10')	Total/NA	Solid	8015NM Prep	
890-3411-3	BH-204 (10')	Total/NA	Solid	8015NM Prep	
890-3411-4	BH-205 (10')	Total/NA	Solid	8015NM Prep	
890-3411-5	BH-206 (10')	Total/NA	Solid	8015NM Prep	
890-3411-6	BH-208 (10')	Total/NA	Solid	8015NM Prep	
890-3411-7	BH-209 (10')	Total/NA	Solid	8015NM Prep	
890-3411-8	BH-210 (10')	Total/NA	Solid	8015NM Prep	
890-3411-9	BH-211 (10')	Total/NA	Solid	8015NM Prep	
890-3411-10	BH-212 (10')	Total/NA	Solid	8015NM Prep	
890-3411-11	SW-75 (4-10')	Total/NA	Solid	8015NM Prep	
890-3411-12	SW-78 (4-10')	Total/NA	Solid	8015NM Prep	
890-3411-13	SW-79 (4-10')	Total/NA	Solid	8015NM Prep	
890-3411-14	SW-80 (4.5-10')	Total/NA	Solid	8015NM Prep	
890-3411-15	SW-81 (4.5-10')	Total/NA	Solid	8015NM Prep	
890-3411-16	SW-82 (4.5-10')	Total/NA	Solid	8015NM Prep	
MB 880-39141/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39141/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39141/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21336-A-28-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-21336-A-28-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 39172

Lab Sample ID 890-3411-17	Client Sample ID SW-83 (4-10)	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

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Analysis Batch: 39269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-17	SW-83 (4-10)	Total/NA	Solid	8015B NM	39172
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015B NM	39172
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39172
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39172
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	39172
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39172

Analysis Batch: 39275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-1	BH-200 (10')	Total/NA	Solid	8015B NM	39141
890-3411-2	BH-201 (10')	Total/NA	Solid	8015B NM	39141
890-3411-3	BH-204 (10')	Total/NA	Solid	8015B NM	39141
890-3411-4	BH-205 (10')	Total/NA	Solid	8015B NM	39141
890-3411-5	BH-206 (10')	Total/NA	Solid	8015B NM	39141
890-3411-6	BH-208 (10')	Total/NA	Solid	8015B NM	39141
890-3411-7	BH-209 (10')	Total/NA	Solid	8015B NM	39141
890-3411-8	BH-210 (10')	Total/NA	Solid	8015B NM	39141
890-3411-9	BH-211 (10')	Total/NA	Solid	8015B NM	39141
890-3411-10	BH-212 (10')	Total/NA	Solid	8015B NM	39141
890-3411-11	SW-75 (4-10')	Total/NA	Solid	8015B NM	39141
890-3411-12	SW-78 (4-10')	Total/NA	Solid	8015B NM	39141
890-3411-13	SW-79 (4-10')	Total/NA	Solid	8015B NM	39141
890-3411-14	SW-80 (4.5-10')	Total/NA	Solid	8015B NM	39141
890-3411-15	SW-81 (4.5-10')	Total/NA	Solid	8015B NM	39141
890-3411-16	SW-82 (4.5-10')	Total/NA	Solid	8015B NM	39141
MB 880-39141/1-A	Method Blank	Total/NA	Solid	8015B NM	39141
LCS 880-39141/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39141
LCSD 880-39141/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39141
880-21336-A-28-D MS	Matrix Spike	Total/NA	Solid	8015B NM	39141
880-21336-A-28-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39141

Analysis Batch: 39406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3411-1	BH-200 (10')	Total/NA	Solid	8015 NM	
890-3411-2	BH-201 (10')	Total/NA	Solid	8015 NM	
890-3411-3	BH-204 (10')	Total/NA	Solid	8015 NM	
390-3411-4	BH-205 (10')	Total/NA	Solid	8015 NM	
390-3411-5	BH-206 (10')	Total/NA	Solid	8015 NM	
890-3411-6	BH-208 (10')	Total/NA	Solid	8015 NM	
890-3411-7	BH-209 (10')	Total/NA	Solid	8015 NM	
390-3411-8	BH-210 (10')	Total/NA	Solid	8015 NM	
390-3411-9	BH-211 (10')	Total/NA	Solid	8015 NM	
390-3411-10	BH-212 (10')	Total/NA	Solid	8015 NM	
390-3411-11	SW-75 (4-10')	Total/NA	Solid	8015 NM	
390-3411-12	SW-78 (4-10')	Total/NA	Solid	8015 NM	
390-3411-13	SW-79 (4-10')	Total/NA	Solid	8015 NM	
390-3411-14	SW-80 (4.5-10')	Total/NA	Solid	8015 NM	
390-3411-15	SW-81 (4.5-10')	Total/NA	Solid	8015 NM	
390-3411-16	SW-82 (4.5-10')	Total/NA	Solid	8015 NM	
390-3411-17	SW-83 (4-10)	Total/NA	Solid	8015 NM	

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

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Leach Batch: 39128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-1	BH-200 (10')	Soluble	Solid	DI Leach	
890-3411-2	BH-201 (10')	Soluble	Solid	DI Leach	
890-3411-3	BH-204 (10')	Soluble	Solid	DI Leach	
890-3411-4	BH-205 (10')	Soluble	Solid	DI Leach	
890-3411-5	BH-206 (10')	Soluble	Solid	DI Leach	
890-3411-6	BH-208 (10')	Soluble	Solid	DI Leach	
890-3411-7	BH-209 (10')	Soluble	Solid	DI Leach	
890-3411-8	BH-210 (10')	Soluble	Solid	DI Leach	
890-3411-9	BH-211 (10')	Soluble	Solid	DI Leach	
890-3411-10	BH-212 (10')	Soluble	Solid	DI Leach	
890-3411-11	SW-75 (4-10')	Soluble	Solid	DI Leach	
890-3411-12	SW-78 (4-10')	Soluble	Solid	DI Leach	
890-3411-13	SW-79 (4-10')	Soluble	Solid	DI Leach	
890-3411-14	SW-80 (4.5-10')	Soluble	Solid	DI Leach	
890-3411-15	SW-81 (4.5-10')	Soluble	Solid	DI Leach	
890-3411-16	SW-82 (4.5-10')	Soluble	Solid	DI Leach	
890-3411-17	SW-83 (4-10)	Soluble	Solid	DI Leach	
MB 880-39128/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39128/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39128/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3411-1 MS	BH-200 (10')	Soluble	Solid	DI Leach	
890-3411-1 MSD	BH-200 (10')	Soluble	Solid	DI Leach	
890-3411-11 MS	SW-75 (4-10')	Soluble	Solid	DI Leach	
890-3411-11 MSD	SW-75 (4-10')	Soluble	Solid	DI Leach	

Analysis Batch: 39334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-1	BH-200 (10')	Soluble	Solid	300.0	39128
890-3411-2	BH-201 (10')	Soluble	Solid	300.0	39128
390-3411-3	BH-204 (10')	Soluble	Solid	300.0	39128
390-3411-4	BH-205 (10')	Soluble	Solid	300.0	39128
390-3411-5	BH-206 (10')	Soluble	Solid	300.0	39128
890-3411-6	BH-208 (10')	Soluble	Solid	300.0	39128
890-3411-7	BH-209 (10')	Soluble	Solid	300.0	39128
890-3411-8	BH-210 (10')	Soluble	Solid	300.0	39128
890-3411-9	BH-211 (10')	Soluble	Solid	300.0	39128
890-3411-10	BH-212 (10')	Soluble	Solid	300.0	39128
890-3411-11	SW-75 (4-10')	Soluble	Solid	300.0	39128
890-3411-12	SW-78 (4-10')	Soluble	Solid	300.0	39128
890-3411-13	SW-79 (4-10')	Soluble	Solid	300.0	39128
890-3411-14	SW-80 (4.5-10')	Soluble	Solid	300.0	39128
890-3411-15	SW-81 (4.5-10')	Soluble	Solid	300.0	39128
890-3411-16	SW-82 (4.5-10')	Soluble	Solid	300.0	39128
890-3411-17	SW-83 (4-10)	Soluble	Solid	300.0	39128
MB 880-39128/1-A	Method Blank	Soluble	Solid	300.0	39128
LCS 880-39128/2-A	Lab Control Sample	Soluble	Solid	300.0	39128
LCSD 880-39128/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39128
890-3411-1 MS	BH-200 (10')	Soluble	Solid	300.0	39128
890-3411-1 MSD	BH-200 (10')	Soluble	Solid	300.0	39128
890-3411-11 MS	SW-75 (4-10')	Soluble	Solid	300.0	39128
890-3411-11 MSD	SW-75 (4-10')	Soluble	Solid	300.0	39128

Job ID: 890-3411-1 SDG: Lea County NM

Client Sample ID: BH-200 (10')

Lab Sample ID: 890-3411-1

Matrix: Solid

Matrix: Solid

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/12/22 22:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 13:54	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 01:19	CH	EET MID

Client Sample ID: BH-201 (10')

Lab Sample ID: 890-3411-2

Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/12/22 22:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 14:16	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		10			39334	11/12/22 01:40	CH	EET MID

Client Sample ID: BH-204 (10')

Lab Sample ID: 890-3411-3

Date Collected: 11/07/22 00:00 Matrix: Solid
Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/12/22 22:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 14:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 01:47	CH	EET MID

Client Sample ID: BH-205 (10')

Lab Sample ID: 890-3411-4

Date Collected: 11/07/22 00:00 Matrix: Solid
Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/12/22 23:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID

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Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-205 (10')

Lab Sample ID: 890-3411-4 Date Collected: 11/07/22 00:00

Matrix: Solid

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 14:59	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 01:54	CH	EET MID

Lab Sample ID: 890-3411-5 Client Sample ID: BH-206 (10')

Date Collected: 11/07/22 00:00 **Matrix: Solid**

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/12/22 23:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MIC
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 15:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39128	11/09/22 15:08	KS	EET MIC
Soluble	Analysis	300.0		5			39334	11/12/22 02:01	CH	EET MID

Client Sample ID: BH-208 (10') Lab Sample ID: 890-3411-6

Date Collected: 11/07/22 00:00 **Matrix: Solid** Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/12/22 23:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 15:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		10			39334	11/12/22 02:23	CH	EET MID

Lab Sample ID: 890-3411-7 Client Sample ID: BH-209 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 00:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g 1 uL	10 mL 1 uL	39141 39275	11/09/22 15:38 11/11/22 16:26	DM SM	EET MID EET MID

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Matrix: Solid

Job ID: 890-3411-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-209 (10')

Date Received: 11/07/22 14:58

Lab Sample ID: 890-3411-7 Date Collected: 11/07/22 00:00 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		10			39334	11/12/22 02:30	CH	EET MID

Client Sample ID: BH-210 (10') Lab Sample ID: 890-3411-8

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 00:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 16:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 02:37	CH	EET MID

Client Sample ID: BH-211 (10') Lab Sample ID: 890-3411-9

Date Collected: 11/07/22 00:00 **Matrix: Solid**

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 01:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 17:09	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 02:44	CH	EET MID

Client Sample ID: BH-212 (10') Lab Sample ID: 890-3411-10

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 01:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 17:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 02:51	CH	EET MID

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-75 (4-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Lab Sample ID: 890-3411-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 02:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 17:54	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		20			39334	11/12/22 02:58	CH	EET MID

Client Sample ID: SW-78 (4-10') Lab Sample ID: 890-3411-12 Matrix: Solid

Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 03:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 18:15	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		50			39334	11/12/22 03:20	CH	EET MID

Client Sample ID: SW-79 (4-10') Lab Sample ID: 890-3411-13

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39140	11/09/22 15:36	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 03:26	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 18:37	SM	EET MIC
Soluble	Leach	DI Leach			5.05 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 03:27	CH	EET MID

Client Sample ID: SW-80 (4.5-10') Lab Sample ID: 890-3411-14

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 03:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID

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Matrix: Solid

Matrix: Solid

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-80 (4.5-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Lab Sample ID: 890-3411-14

Matrix: Solid

Matrix: Solid

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 39406 Analysis 11/14/22 14:30 SM **EET MID** Total/NA Prep 8015NM Prep 10.01 g 10 mL 39141 11/09/22 15:38 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 39275 11/11/22 18:59 SM **EET MID** DI Leach 4.97 g 39128 11/09/22 15:08 KS Soluble Leach 50 mL **EET MID** 300.0 39334 11/12/22 03:48 Soluble Analysis 20 СН **EET MID**

Client Sample ID: SW-81 (4.5-10') Lab Sample ID: 890-3411-15

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 04:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 19:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		20			39334	11/12/22 03:55	CH	EET MID

Client Sample ID: SW-82 (4.5-10') Lab Sample ID: 890-3411-16

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 04:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 19:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		20			39334	11/12/22 04:02	CH	EET MID

Client Sample ID: SW-83 (4-10) Lab Sample ID: 890-3411-17

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 04:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 09:30	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	39172 39269	11/10/22 08:48 11/11/22 18:00	DM SM	EET MID EET MID

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Matrix: Solid

Lab Chronicle

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-83 (4-10)

Lab Sample ID: 890-3411-17

Date Collected: 11/07/22 00:00 Matrix: Solid
Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1			39334	11/12/22 04:09	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

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Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.	•	, , ,	·, ·····
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	,
0 ,		Matrix Solid	, , ,	

Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea 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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3411-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3411-1	BH-200 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-2	BH-201 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-3	BH-204 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-4	BH-205 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-5	BH-206 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-6	BH-208 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-7	BH-209 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-8	BH-210 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-9	BH-211 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-10	BH-212 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-11	SW-75 (4-10')	Solid	11/07/22 00:00	11/07/22 14:58	4 - 10
890-3411-12	SW-78 (4-10')	Solid	11/07/22 00:00	11/07/22 14:58	4 - 10
890-3411-13	SW-79 (4-10')	Solid	11/07/22 00:00	11/07/22 14:58	4 - 10
890-3411-14	SW-80 (4.5-10')	Solid	11/07/22 00:00	11/07/22 14:58	4.5 - 10
890-3411-15	SW-81 (4.5-10')	Solid	11/07/22 00:00	11/07/22 14:58	4.5 - 10
890-3411-16	SW-82 (4.5-10')	Solid	11/07/22 00:00	11/07/22 14:58	4.5 - 10
890-3411-17	SW-83 (4-10)	Solid	11/07/22 00:00	11/07/22 14:58	4 - 10

	Relinquished by:	2	Relinguished by:	(len)	Relinquished by:											LAB USE	LAB #		Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:			,
	γ: / Date: Time:	824- 00/ 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	yy: Date: Time:	22/11/11	1	BH-212 (10)	BH-211 (10')	BH-210 (10')	BH-209 (10')	ВН-208 (10')	вн-206 (10')	BH-205 (10')	BH-204 (10°)	BH-201 (10')	BH-200 (10')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	n: Lea County, NM	Kaiser SWD	Permian Water Solutions		Tetra Tech. Inc.	
	Received by:		Received by:		Received by:	11/7/2022	11/7/2022	11/7/2022	11/7/2022	11/7/2022	11/7/2022	11/7/2022	11/7/2022	11/7/2022	11/7/2022	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager			
	Date:		Date:		Date	×	×	×	×	×	×	×	×	×	×	WATE SOIL HCL		MATRIX		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Tel (432) 682-4559 Fax (432) 682-3946	Midland, Texas 79705	SUIC HEAA AALDE
	: Time:		: Time:		Time:	×	×	×	×	×	×	×	×	×	×	HNO ₃ ICE None		METHOD S		iver		-02230	ch.com	38	.559 .82-3946	9705	er Ste 100
2 1 '	10 10 C	300	Sample Temperature		AB USE ONLY	×	×	×	×	×	×	×	×	×	×	FILTEI BTEX TPH T TPH 8 PAH 8	RED (* 8021B X1005 015M (270C	Y/N) BTE (Ext to (GRO	EX 8260 0 C35) - DRO - 0	ORO - 1			890-3411 C				
7		Rush Chan	RUSH: Same Day] [REMARKS											TCLP I TCLP I TCLP I RCI GC/MS	Metals Volatile Semi V	Ag As s olatiles	Ba Cd C	r Pb Se			Chain of Custody				
Special Report Limits of TRKP Report DEX UPS Tracking #		Rush Charges Authorized	24 Nr 46 Nr		STANDARD	×	×	×	×	×	×	×	×	×	×	PCB's NORM PLM (A Chlorid Chlorid Gener Anion/	Asbesto le de S al Wat	os) Sulfate ter Che	emistry (see att	ached l	ist)					
1			/2 07													Hold											

ORIGINAL COPY

7	Tetra Tech, Inc.		SOTAV VVB Midland,To Tel (432)	901 W Wall Street, Sie 100 Midland, Texas 79705 Tel (432) 682-4559									- 4											
			Fax (Fax (432) 682-3946																				
Client Name:	Permian Water Solutions	Site Manager	Clair Gonzales	zales			ANALYSIS	YSI		REQUEST	TS	0		<u>.</u>	₹		,	2	2)				
Project Name:	Kaiser SWD	<u>Clair.</u>	Clair.Gonzales@tetratech.com	ratech.com					_ 7			9	fe	9		}		8		§				
Project Location: (county, state)	Lea County, NM	Project #	2120-	212C-MD-02230																st)				
invoice to:	Permian Water Solutions - Dusty McInturff							RO)		Hg										iched li				
Receiving Laboratory:		Sampler Signature:	Peytor	Peyton Oliver				RO - M		o Se										e atta				
Comments:						(8260B	C35)	DRO - O		a Cd Cr				70C/625				-	TDS		ce			
		SAMPLING	MATRIX	PRESERVATIVE METHOD	RS		Ext to	GRO -				4			608		s)		ulfate		Balan			
D D H	SAMPLE IDENTIFICATION	YEAR: 2020			AINE		1005 (_		-			-		082/						ation			
(LABUSE)		DATE TIME	WATER SOIL	HCL HNO ₃ ICE None	# CONT.	FILTERI BTEX 80	TPH TX	TPH 80°	Total Me	TCLP Me	TCLP Se	RCI	GC/MS \	GC/MS S	PCB's 8	NORM	PLM (As	Chloride	Chloride	General	Anion/C			
SI	SW-75 (4-10')	11/7/2022	×	×		×		×					_		-	_	-	×		-	_	-		L
S	SW-78 (4-10')	11/7/2022	×	×		×		×		-			_	_	_	-	-	×		_	1	-	-	
S	SW-79 (4-10')	11/7/2022	×	×		×		×						L	-	-	ļ.,	×	_	-	-	-	-	L
SI	SW-80 (4.5-10')	11/7/2022	×	×		×		×					L	_	-	1	-	×	_	-	-	-	-	
SI	SW-81 (4.5-10')	11/7/2022	×	×		×		×		-			_	_	-	-		×	_	_	-	_	-	-
SI	SW-82 (4.5-10')	11/7/2022	×	×		×		×		-			_	<u> </u>	1	\vdash	1	×	_	-	1	+	+	
SI	SW-83 (4-10')	11/7/2022	×	×		×		×	工	+				_	-	_	-	_ <u> ×</u>			_	_		
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Relinquished by:		Received by:		Date: Time:		S	Sample Temperature	edute.	ature			R	E	Sa	RUSH: Same Day	Da)		24 hr		48 hr		72 hr	7	
Relinquished by:	Date: Time:	Received by:		Date: Time:		$\overline{}$	10	ro.				Rush Charges Authorized	cial C	har	es.	Aut	non:	Zed Dez	쮸	Re	Rush Charges Authorized Special Report Limits or TRRP Report	-		
							(Circle) HAND DELIVERED	BAH	DELL	E -		FEDEX	UPS	S	128	Tracking #:	#							

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-3411-1 SDG Number: Lea County NM

Login Number: 3411 List Number: 1 Creator: Clifton, Cloe 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	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3411-1

SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 11/09/22 10:47 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3411

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	N/A	

Eurofins Carlsbad

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3412-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 11/14/2022 3:39:39 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3412-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-3412-1

Project/Site: Kaiser SWD

SDG: Lea County NM

14141

Qualifiers

GC VOA

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.

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.

Job ID: 890-3412-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-3412-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3412-1

Receipt

The sample was received on 11/7/2022 2:58 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 29.8°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: H-9 (5') (890-3412-1).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-39172 and analytical batch 880-39269 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-39172 and analytical batch 880-39269 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39128 and analytical batch 880-39334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Matrix: Solid

Lab Sample ID: 890-3412-1

Client: Tetra Tech, Inc.

Job ID: 890-3412-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: H-9 (5')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 05:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 05:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 05:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:36	11/13/22 05:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 05:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:36	11/13/22 05:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/09/22 15:36	11/13/22 05:09	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/09/22 15:36	11/13/22 05:09	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399		0.00399		mg/Kg			11/14/22 16:13	
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg		<u>.</u>	11/14/22 09:30	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/10/22 08:48	11/11/22 18:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 18:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 18:21	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	93		70 - 130				11/10/22 08:48	11/11/22 18:21	1
o-Terphenyl	92		70 - 130				11/10/22 08:48	11/11/22 18:21	1
•									
Method: MCAWW 300.0 - Anions									
Method: MCAWW 300.0 - Anions Analyte		Qualifier	oluble 	MDL	Unit mg/Kg	D	Prepared	Analyzed 11/12/22 04:17	Dil Fac

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3412-1

Project/Site: Kaiser SWD

SDG: Lea 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)	
890-3411-A-1-D MS	Matrix Spike	77	102	
890-3411-A-1-E MSD	Matrix Spike Duplicate	95	96	
890-3412-1	H-9 (5')	112	111	
LCS 880-39140/1-A	Lab Control Sample	81	100	
LCSD 880-39140/2-A	Lab Control Sample Dup	77	104	
MB 880-39140/5-A	Method Blank	89	100	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben	zene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-3402-A-1-G MS	Matrix Spike	86	79	
390-3402-A-1-H MSD	Matrix Spike Duplicate	82	73	
390-3412-1	H-9 (5')	93	92	
_CS 880-39172/2-A	Lab Control Sample	94	97	
_CSD 880-39172/3-A	Lab Control Sample Dup	107	109	
MB 880-39172/1-A	Method Blank	119	134 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Tetra Tech, Inc. Job ID: 890-3412-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39140/5-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39140

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89	70 - 130	11/09/22 15:36	11/12/22 21:52	1
1,4-Difluorobenzene (Surr)	100	70 ₋ 130	11/09/22 15:36	11/12/22 21:52	1

Lab Sample ID: LCS 880-39140/1-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39140

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09752		mg/Kg		98	70 - 130	
Toluene	0.100	0.09567		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.08894		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1685		mg/Kg		84	70 - 130	
o-Xylene	0.100	0.09351		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	81		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-39140/2-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Lab Control Sample Dup	Client Sam	ple ID: Lab	Control Sam	ple Dup
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Prep Type: Total/NA

Prep Batch: 39140

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.09869 mg/Kg 99 70 - 130 35 Toluene 0.100 0.09592 mg/Kg 96 70 - 130 0 35 Ethylbenzene 0.100 0.09030 mg/Kg 90 70 - 130 2 35 0.200 0.1711 m-Xylene & p-Xylene mg/Kg 86 70 - 130 35 0.100 0.09589 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1.4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-3411-A-1-D MS

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 39140

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09300		mg/Kg	_	93	70 - 130	
Toluene	<0.00200	U	0.0996	0.08826		mg/Kg		89	70 - 130	

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3412-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3411-A-1-D MS

Matrix: Solid

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analysis Batch: 39369

Prep Batch: 39140

Sample Sample Sample Spike MS MS

**Rec

	Odinpic	Campic	Opino	1110	1410				/01 1CC	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0996	0.07882		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1462		mg/Kg		73	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.08198		mg/Kg		82	70 - 130	

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 77
 70 - 130

 1,4-Difluorobenzene (Surr)
 102
 70 - 130

Lab Sample ID: 890-3411-A-1-E MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 39369

Prep Type: Total/NA

Prep Batch: 39140

Prep Batch: 39140

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0998	0.08398		mg/Kg		84	70 - 130	10	35
Toluene	<0.00200	U	0.0998	0.08420		mg/Kg		84	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0998	0.08062		mg/Kg		81	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1625		mg/Kg		81	70 - 130	11	35
o-Xylene	<0.00200	U	0.0998	0.09115		mg/Kg		91	70 - 130	11	35

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 95
 70 - 130

 1,4-Difluorobenzene (Surr)
 96
 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-39172/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 39269

MB MB Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte <50.0 U 50.0 11/10/22 08:48 11/11/22 09:30 Gasoline Range Organics mg/Kg (GRO)-C6-C10 11/11/22 09:30 Diesel Range Organics (Over <50.0 U 50.0 11/10/22 08:48 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 11/10/22 08:48 11/11/22 09:30 mg/Kg

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 119 70 - 130 11/10/22 08:48 11/11/22 09:30 134 S1+ 70 - 130 11/10/22 08:48 11/11/22 09:30 o-Terphenyl

Lab Sample ID: LCS 880-39172/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 39269 Prep Batch: 39172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	815.5		mg/Kg		82	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	846.7		mg/Kg		85	70 - 130	
C10-C28)								

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Prep Batch: 39172

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Job ID: 890-3412-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-39172/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 94 70 - 130 o-Terphenyl 97 70 - 130

Lab Sample ID: LCSD 880-39172/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1003 *1 100 70 - 13021 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 950.2 mg/Kg 95 70 - 13012 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 107 70 - 130 1-Chlorooctane 109 70 - 130 o-Terphenyl

Lab Sample ID: 890-3402-A-1-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics 55.1 997 1007 mg/Kg 95 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 861.7 mg/Kg 84 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 86 o-Terphenyl 79 70 - 130

Lab Sample ID: 890-3402-A-1-H MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 999 978.6 92 Gasoline Range Organics 55.1 mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 796.8 mg/Kg 77 70 - 130 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 82 70 - 130 73 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Job ID: 890-3412-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39128/1-A

Matrix: Solid

Analysis Batch: 39334

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Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 11/12/22 00:57

Lab Sample ID: LCS 880-39128/2-A

Matrix: Solid

Analysis Batch: 39334

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 268.3 mg/Kg 107 90 - 110

Lab Sample ID: LCSD 880-39128/3-A

Matrix: Solid

Analysis Batch: 39334

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 268.7 mg/Kg 107 90 - 110

Lab Sample ID: 890-3411-A-1-B MS

Matrix: Solid

Analysis Batch: 39334

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits Chloride 2280 1260 3520 90 - 110 mg/Kg

Lab Sample ID: 890-3411-A-1-C MSD

Matrix: Solid

Analysis Batch: 39334

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 2280 F1 1260 3707 F1 Chloride mg/Kg 113 90 - 110 20

Client: Tetra Tech, Inc.

Job ID: 890-3412-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 39140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Total/NA	Solid	5035	
MB 880-39140/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3411-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3411-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 39369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Total/NA	Solid	8021B	39140
MB 880-39140/5-A	Method Blank	Total/NA	Solid	8021B	39140
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	8021B	39140
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39140
890-3411-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	39140
890-3411-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	39140

Analysis Batch: 39552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 39172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Total/NA	Solid	8015NM Prep	
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Total/NA	Solid	8015B NM	39172
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015B NM	39172
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39172
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39172
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	39172
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39172

Analysis Batch: 39407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Soluble	Solid	DI Leach	
MB 880-39128/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39128/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39128/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Page 11 of 19

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3412-1

SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 39128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3411-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 39334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Soluble	Solid	300.0	39128
MB 880-39128/1-A	Method Blank	Soluble	Solid	300.0	39128
LCS 880-39128/2-A	Lab Control Sample	Soluble	Solid	300.0	39128
LCSD 880-39128/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39128
890-3411-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	39128
890-3411-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	39128

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Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-3412-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: H-9 (5')

Lab Sample ID: 890-3412-1 Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 05:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39552	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39407	11/14/22 09:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39172	11/10/22 08:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39269	11/11/22 18:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 04:17	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.

Job ID: 890-3412-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report by	it the leberatory is not cortifi	ed by the governing authority. This list ma	arrimalizada amaliztaa farr
the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list his	ay include arialytes for
0 ,	• •	Matrix	Analyte	ay include analytes for
the agency does not of	fer certification.	•	, , ,	ay include analytes for

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3412-1

Project/Site: Kaiser SWD

SDG: Lea 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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3412-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3412-1	H-9 (5')	Solid	11/07/22 12:00	11/07/22 14:58	5'

	Relinquished by:	Relinquipmed by:	renc	Relinquished by:				Ŧ	(ONLY)	LAB#		Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4	Analysis Requ	
	Date: Tim	11/1/22 1458	12	Date: Time:				H-9 (5')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record	
ORIGINAL COPY	Received by:	Received by:		Received by:				11/7/2022	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager			
γ	Date:	Ca e		Date:				×	WATER SOIL HCL HNO ₃	₹	MATRIX PRESER		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Midand, Texas 79705 Tel (432) 662-4559 Fax (432) 682-3946	890	
	Time:	line:		Time:					None # CONT	ED (Y/N)				30	<u>om</u>		5	890-3412 Chain of Custody	
(Circle) HAND DELIVERED	Tom-007	Sample Temperature		LAB USE ONLY				×		1005 15M (70C etals / etals	(Ext to GRO Ag As E Ag As	- DRO - (ORO - I	Hg			ANALYSIS REQUEST		dy	
FEDEX UPS		Rush Charges Authorized		REMARKS: [X] STANDARD					TCLP Volume TCLP Set RCI GC/MS V GC/MS V PCB's 8	vol. 8	olatiles 3260B Vol. 8						r Specify			
Tracking #:	Special Report Limits or TRRP Report	onized	Day 24 hr 48 hr 72	õ				×	PLM (As Chloride Chloride General Anion/C	e S	Sulfate er Che	emistry (see at	ached	list)		Method No.)		Page	
			2 hr						Hold										of .	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-3412-1 SDG Number: Lea County NM

Login Number: 3412 List Number: 1

List Source: Eurofins Carlsbad

Creator: Stutzman, Amanda

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	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3412-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Source: Eurotins Midiand
List Creation: 11/09/22 10:47 AM

Login Number: 3412 List Number: 2

Creator: Rodriguez, Leticia

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	N/A	

Euronnis Carisbau

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<6mm (1/4").

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Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3413-1

Laboratory Sample Delivery Group: 212C-MD-02230

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 11/14/2022 3:40:55 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3413-1 SDG: 212C-MD-02230

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Definitions/Glossary

Job ID: 890-3413-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

*1 LCS/LCSD RPD 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**

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL 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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-3413-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Job ID: 890-3413-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3413-1

Receipt

The sample was received on 11/7/2022 2:58 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 29.8°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: H-8 (5') (890-3413-1).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-39172 and analytical batch 880-39269 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-39172 and analytical batch 880-39269 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39128 and analytical batch 880-39334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample ID: H-8 (5')

Date Collected: 11/07/22 12:00

Date Received: 11/07/22 14:58

Released to Imaging: 9/1/2023 3:11:42 PM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3413-1

SDG: 212C-MD-02230

Matrix: Solid

Lab Sample ID: 890-3413-1

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:30	
Toluene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:30	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:30	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 05:30	
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:30	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 05:30	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	110		70 - 130				11/09/22 15:36	11/13/22 05:30	
1,4-Difluorobenzene (Surr)	109		70 - 130				11/09/22 15:36	11/13/22 05:30	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese		, , ,	•	MDI	l l=i4		Dunnawad	Amahamad	Dil Fa
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tatal TDI I									
Iotal IPH	<50.0	U	50.0		mg/Kg			11/14/22 09:30	
					mg/Kg				
Method: SW846 8015B NM - Dies	sel Range Orga			MDL		D	Prepared		Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO)	(GC)	MDL		<u>D</u>	Prepared 11/10/22 08:48	11/14/22 09:30	
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier U *1	(GC)	MDL	Unit	<u>D</u>	<u> </u>	11/14/22 09:30 Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U *1	(GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	11/10/22 08:48	11/14/22 09:30 Analyzed 11/11/22 18:41	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.0	nics (DRO) Qualifier U*1 U	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	D	11/10/22 08:48	11/14/22 09:30 Analyzed 11/11/22 18:41 11/11/22 18:41	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	sel Range Orga Result <50.0 <50.0	nics (DRO) Qualifier U*1 U	(GC) RL 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/10/22 08:48 11/10/22 08:48 11/10/22 08:48	Analyzed 11/11/22 18:41 11/11/22 18:41 11/11/22 18:41	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0 <50.0 <50.0 %Recovery	nics (DRO) Qualifier U*1 U	(GC) RL 50.0 50.0 50.0 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/10/22 08:48 11/10/22 08:48 11/10/22 08:48 Prepared	Analyzed 11/11/22 18:41 11/11/22 18:41 11/11/22 18:41 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anions	See Range Orga Result <50.0 <50.0 <50.0 **Recovery 90 87	Nics (DRO) Qualifier U*1 U Qualifier	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	D	11/10/22 08:48 11/10/22 08:48 11/10/22 08:48 Prepared 11/10/22 08:48	Analyzed 11/11/22 18:41 11/11/22 18:41 11/11/22 18:41 Analyzed 11/11/22 18:41	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Nics (DRO) Qualifier U*1 U Qualifier	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg mg/Kg	D	11/10/22 08:48 11/10/22 08:48 11/10/22 08:48 Prepared 11/10/22 08:48	Analyzed 11/11/22 18:41 11/11/22 18:41 11/11/22 18:41 Analyzed 11/11/22 18:41	Dil Fac

Surrogate Summary

Job ID: 890-3413-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3411-A-1-D MS	Matrix Spike	77	102	
890-3411-A-1-E MSD	Matrix Spike Duplicate	95	96	
890-3413-1	H-8 (5')	110	109	
LCS 880-39140/1-A	Lab Control Sample	81	100	
LCSD 880-39140/2-A	Lab Control Sample Dup	77	104	
MB 880-39140/5-A	Method Blank	89	100	
Surrogate Legend				
BFB = 4-Bromofluorobenz	ene (Surr)			
DFBZ = 1,4-Difluorobenze	ene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3402-A-1-G MS	Matrix Spike	86	79
890-3402-A-1-H MSD	Matrix Spike Duplicate	82	73
890-3413-1	H-8 (5')	90	87
LCS 880-39172/2-A	Lab Control Sample	94	97
LCSD 880-39172/3-A	Lab Control Sample Dup	107	109
MB 880-39172/1-A	Method Blank	119	134 S1+
Surrogate Legend			

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-3413-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39140/5-A

Matrix: Solid Analysis Batch: 39369 Prep Type: Total/NA

Prep Batch: 39140

Client Sample ID: Method Blank

мв мв MDL Unit Dil Fac Analyte Result Qualifier RLD Prepared Analyzed Benzene <0.00200 U 0.00200 mg/Kg 11/09/22 15:36 11/12/22 21:52 Toluene <0.00200 U 0.00200 mg/Kg 11/09/22 15:36 11/12/22 21:52 Ethylbenzene <0.00200 U 0.00200 11/12/22 21:52 mg/Kg 11/09/22 15:36 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 11/09/22 15:36 11/12/22 21:52 o-Xylene <0.00200 U 0.00200 11/09/22 15:36 11/12/22 21:52 mg/Kg Xylenes, Total <0.00400 U 0.00400 11/09/22 15:36 11/12/22 21:52 mg/Kg

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89	70 - 130	11/09/22 15:36	11/12/22 21:52	1
1,4-Difluorobenzene (Surr)	100	70 - 130	11/09/22 15:36	11/12/22 21:52	1

Lab Sample ID: LCS 880-39140/1-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39140

	Spike	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09752		mg/Kg		98	70 - 130	
Toluene	0.100	0.09567		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.08894		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1685		mg/Kg		84	70 - 130	
o-Xylene	0.100	0.09351		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	81	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-39140/2-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 39369

Client Sample ID: Lab Control Sample Dup

70 - 130

96

Prep Type: Total/NA Prep Batch: 39140

LCSD LCSD RPD Spike %Rec Added Result Qualifier Unit %Rec Limits Limit 0.100 0.09869 mg/Kg 99 70 - 130 35 0.100 0.09592 mg/Kg 96 70 - 130 0 35 0.100 0.09030 mg/Kg 90 70 - 130 2 35 0.200 0.1711 mg/Kg 86 70 - 130 35

mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1.4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-3411-A-1-D MS

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Matrix Spike

Prep Type: Total/NA

35

Prep Batch: 39140

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits U 0.0996 93 Benzene <0.00200 0.09300 mg/Kg 70 - 130 Toluene <0.00200 U 0.0996 0.08826 mg/Kg 89 70 - 130

0.100

0.09589

Job ID: 890-3413-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3411-A-1-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 39369 Prep Batch: 39140 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00200 U 0.0996 0.07882 79 70 - 130 mg/Kg

Surrogate	%Recovery	Qualifier	Limits					
	MS	MS						
o Aylono	10.00200	· ·	0.0000	0.00100	g/i.tg	02	701100	
o-Xylene	<0.00200	U	0.0996	0.08198	mg/Kg	82	70 - 130	
m-Xylene & p-Xylene	< 0.00401	U	0.199	0.1462	mg/Kg	73	70 - 130	

70 - 130

70 - 130

Lab Sample ID: 890-3411-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

77

102

Matrix: Solid

Analysis Batch: 39369

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 39369									Prep	Batch:	39140
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0998	0.08398		mg/Kg		84	70 - 130	10	35
Toluene	<0.00200	U	0.0998	0.08420		mg/Kg		84	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0998	0.08062		mg/Kg		81	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1625		mg/Kg		81	70 - 130	11	35
o-Xylene	<0.00200	U	0.0998	0.09115		mg/Kg		91	70 - 130	11	35

MSD MSD Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 95 70 - 130 1,4-Difluorobenzene (Surr) 96 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-39172/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 39269

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 119 70 - 130 11/10/22 08:48 11/11/22 09:30 134 S1+ 70 - 130 11/10/22 08:48 11/11/22 09:30 o-Terphenyl

Lab Sample ID: LCS 880-39172/2-A Client Sample ID: Lab Control Sample

Analysis Batch: 39269

Matrix: Solid

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits 1000 815.5 82 70 _ 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 mg/Kg Diesel Range Organics (Over 1000 846.7 85 70 - 130

C10-C28)

Eurofins Carlsbad

Prep Type: Total/NA

Prep Batch: 39172

Prep Type: Total/NA

Prep Batch: 39172

Job ID: 890-3413-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

Lab Sample ID: LCS 880-39172/2-A Client Sample ID: Lab Control Sample

Limits

Matrix: Solid

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172

Prep Type: Total/NA

Surrogate %Recovery Qualifier 1-Chlorooctane 94 70 - 130 o-Terphenyl 97 70 - 130

Lab Sample ID: LCSD 880-39172/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 39269 Prep Batch: 39172

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1003 *1 100 70 - 13021 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 950.2 mg/Kg 95 70 - 13012 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 107 70 - 130 1-Chlorooctane 109 70 - 130 o-Terphenyl

Lab Sample ID: 890-3402-A-1-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 39269

Prep Batch: 39172 Sample Sample MS MS Spike

Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics 55.1 997 1007 mg/Kg 95 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 861.7 mg/Kg 84 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits

70 - 130 1-Chlorooctane 86 o-Terphenyl 79 70 - 130

Lab Sample ID: 890-3402-A-1-H MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 39269 Prep Batch: 39172

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 999 978.6 92 Gasoline Range Organics 55.1 mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 796.8 mg/Kg 77 70 - 130 20

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 82 70 - 130 73 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client: Tetra Tech, Inc.

Job ID: 890-3413-1
Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39128/1-A

Matrix: Solid

Analysis Batch: 39334

		МВ	МВ

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 11/12/22 00:57
 1

Lab Sample ID: LCS 880-39128/2-A

Matrix: Solid

Analysis Batch: 39334

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	268.3		ma/Ka		107	90 - 110	

Lab Sample ID: LCSD 880-39128/3-A

Matrix: Solid

Analysis Batch: 39334

	Spik	e LCSD	LCSD				%Rec		RPD
Analyte	Adde	d Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	25	268.7		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-3411-A-11-B MS

Matrix: Solid

Analysis Batch: 39334

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	14500	F1	5010	21010	F1	mg/Kg		130	90 - 110	

Lab Sample ID: 890-3411-A-11-C MSD

Matrix: Solid

Analysis Batch: 39334

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	14500	F1	5010	20560	F1	mg/Kg		121	90 - 110	2	20

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-3413-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC VOA

Prep Batch: 39140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Total/NA	Solid	5035	
MB 880-39140/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3411-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3411-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 39369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Total/NA	Solid	8021B	39140
MB 880-39140/5-A	Method Blank	Total/NA	Solid	8021B	39140
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	8021B	39140
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39140
890-3411-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	39140
890-3411-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	39140

Analysis Batch: 39553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 39172

•					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Total/NA	Solid	8015NM Prep	
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39269

Lab Sample ID 890-3413-1	Client Sample ID H-8 (5')	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 39172
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015B NM	39172
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39172
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39172
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	39172
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39172

Analysis Batch: 39408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Soluble	Solid	DI Leach	
MB 880-39128/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39128/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39128/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Tetra Tech, Inc. Job ID: 890-3413-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

HPLC/IC (Continued)

Leach Batch: 39128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3411-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 39334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Soluble	Solid	300.0	39128
MB 880-39128/1-A	Method Blank	Soluble	Solid	300.0	39128
LCS 880-39128/2-A	Lab Control Sample	Soluble	Solid	300.0	39128
LCSD 880-39128/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39128
890-3411-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	39128
890-3411-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	39128

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-3413-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: H-8 (5')

Lab Sample ID: 890-3413-1 Date Collected: 11/07/22 12:00

Matrix: Solid

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 05:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39553	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39408	11/14/22 09:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39172	11/10/22 08:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39269	11/11/22 18:41	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1			39334	11/12/22 04:24	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.

Job ID: 890-3413-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date		
Texas	NE	ELAP	T104704400-22-24	06-30-23		
The following englytes	and the street and the state of a contract that					
the agency does not of	• '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for		
,	• '	t the laboratory is not certifi Matrix	ed by the governing authority. This list ma	ay include analytes for		
the agency does not of	fer certification.	•	, , ,	ay include analytes for		

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3413-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3413-1

SDG: 212C-MD-02230

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3413-1	H-8 (5')	Solid	11/07/22 12:00	11/07/22 14:58	5'

	Relinquished by:	Drug - al	Relinquished by:	Relinquished by:								н-8 (5')	(LABUSE)	LAB#		Comments:	Receiving Laboratory:	Invoice to:	(county, state)	Project Name:	Client Name:		1	Analysis Reques	
	Date: Time:	00	Date: Time:	Date: Time:	П							5')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions		Tetra Tech, Inc.	Analysis Request of Chain of Custody Record	
	Received by:		Received by:	Received by:								11/7/2022	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager				
			0									×	WATE SOIL	R	MATRIX		Peyton Oliver		212C-N	Clair.Gonzales@tetratech.com	Clair Gonzales	Fax (432) 682-4559	Widland, Texas 79705		
	Date: Time:		Date: Time:	Date:	-							×	HCL HNO ₃ ICE None		PRESERVATIVE		Oliver		212C-MD-02230	atech.com	zales	(432) 682-4559 Eax (432) 682-3946	Cas 79705	890-3413 Ch	
													# CON											Chain of Custody	
(Circ	-1.0	W	Sam	5								×	BTEX 8			X 8260	В		1					stod	
(Circle) HAND DELIVERED	23	50	Sample Temperature	LAB USE ONLY	-	-		+		+	+	×	TPH TO		_	- DRO - (ORO - I	MRO)			ANALYSIS REQUEST				
ND D	10	30 (2)	mpera	SEC									PAH 82	_							SIS				
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RED	3_	_										L	TCLP V	-	-	50 00 0					EQUES				
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	pecia	rush (HSUS	လူ လ	-	-	+	+	+-	-	+	+	RCI GC/MS	Vol. (8260B	/ 624					S				
UPS	Reg	Charg	Sa	TAN				工				I	GC/MS	Semi.	Vol. 8	3270C/62	5				pecify				
Trac	Special Report Limits or TRRP Report	Rush Charges Authorized	RUSH: Same Day	STANDARD	H	-		-			-	+	PCB's	8082/	608										
Tracking #:	imits	uthor		õ	-	1	+	+				-	PLM (A	sbesto	os)						let l] ₂₀	
	or Ti	ized	24 hr									×	Chloride	е			···				Method			Page	
	RR					-		-			-	+	Chlorid		Sulfate	TDS emistry (COC 0 ¹⁴	achad	liet\		No			,	
	Repo		48 hr			-	+			+	+	+	Anion/0				see all	acried	nst)		٢				
	ä		72 hr					工				I										1			
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					-	+		+	H	+	+	+	Hold		-										

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-3413-1

SDG Number: 212C-MD-02230

Login Number: 3413 List Source: Eurofins Carlsbad

List Number: 1 Creator: Stutzman, Amanda

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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 N/A Sample Preservation Verified. There is sufficient vol. for all requested analyses, incl. any requested True MS/MSDs Containers requiring zero headspace have no headspace or bubble is N/A

<6mm (1/4").

11/14/2022

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3413-1 SDG Number: 212C-MD-02230

050 Hambon 2120 Mb 02200

List Source: Eurofins Midland List Creation: 11/09/22 10:47 AM

Login Number: 3413 List Number: 2

<6mm (1/4").

Creator: Rodriguez, Leticia

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	
s 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	N/A	

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Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3414-1

Laboratory Sample Delivery Group: 212C-MD-02230

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 11/14/2022 3:40:57 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3414-1 SDG: 212C-MD-02230

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

-MD-02230

Qualifiers

GC VOA Qualifier

 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

*1 LCS/LCSD RPD exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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 and a the UDU selements designed that the consult is non-order and an endown in the

Eisted 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)

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

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Job ID: 890-3414-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3414-1

Receipt

The samples were received on 11/7/2022 2:58 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 29.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-75 (0-4') (890-3414-1), SW-78 (0-4') (890-3414-2), SW-79 (0-4') (890-3414-3) and SW-83 (0-4') (890-3414-4).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-39148 and analytical batch 880-39393 were outside control limits. Non-homogeneity 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-39172 and analytical batch 880-39269 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-39172 and analytical batch 880-39269 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39126 and analytical batch 880-39335 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Job ID: 890-3414-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-75 (0-4') Date Collected: 11/07/22 12:00

Date Received: 11/07/22 14:58 Sample Depth: 0-4'

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3414-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 05:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/09/22 15:36	11/13/22 05:51	1
1,4-Difluorobenzene (Surr)	114		70 - 130				11/09/22 15:36	11/13/22 05:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00398 0.00398 mg/Kg 11/14/22 16:13

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 11/14/22 09:30 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL MDI Dil Fac Unit D Prepared Analyzed <49.9 U *1 Gasoline Range Organics 49.9 mg/Kg 11/10/22 08:48 11/11/22 14:04 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 11/10/22 08:48 11/11/22 14:04 C10-C28) OII Range Organics (Over C28-C36) <49.9 U 49 9 11/10/22 08:48 11/11/22 14:04 mg/Kg

Limits Prepared Dil Fac Surrogate %Recovery Qualifier Analyzed 70 - 130 11/10/22 08:48 1-Chlorooctane 90 11/11/22 14:04 70 - 130 11/10/22 08:48 o-Terphenyl 11/11/22 14:04

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier

MDL Unit D Dil Fac RLPrepared Analyzed 25.1 Chloride 2370 mg/Kg 11/12/22 04:10 Client Sample ID: SW-78 (0-4')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3414-2

Matrix: Solid

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 16:01	11/14/22 13:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 16:01	11/14/22 13:48	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		11/09/22 16:01	11/14/22 13:48	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		11/09/22 16:01	11/14/22 13:48	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		11/09/22 16:01	11/14/22 13:48	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		11/09/22 16:01	11/14/22 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				11/09/22 16:01	11/14/22 13:48	1

Client: Tetra Tech, Inc.

Job ID: 890-3414-1 SDG: 212C-MD-02230

Project/Site: Kaiser SWD

Client Sample ID: SW-78 (0-4') Date Collected: 11/07/22 12:00

Date Received: 11/07/22 14:58 Sample Depth: 0-4'

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3414-2

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130				11/09/22 16:01	11/14/22 13:48	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 16:19	1
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TDU			50.0		malka			11/14/22 09:30	1
Total TPH	161		50.0		mg/Kg			11/14/22 09.50	
ाठावा । PH : - Method: SW846 8015B NM - Di		nics (DRO)			mg/kg			11/14/22 09:50	·
- -	esel Range Orga	nics (DRO) Qualifier		MDL	Unit Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics	esel Range Orga	Qualifier	(GC)	MDL		<u>D</u>	Prepared 11/10/22 08:48		Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range Orga Result	Qualifier	(GC)	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	esel Range Orga Result <50.0	Qualifier	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/10/22 08:48	Analyzed 11/11/22 13:43 11/11/22 13:43	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	esel Range Orga Result <50.0	Qualifier	(GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	11/10/22 08:48	Analyzed 11/11/22 13:43	Dil Fac 1 1
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	esel Range Orga Result <50.0	Qualifier	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/10/22 08:48	Analyzed 11/11/22 13:43 11/11/22 13:43	Dil Fac 1 1
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	esel Range Orga Result <50.0	Qualifier U *1	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/10/22 08:48	Analyzed 11/11/22 13:43 11/11/22 13:43	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result <50.0 54.3	Qualifier U *1	(GC) RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	11/10/22 08:48 11/10/22 08:48 11/10/22 08:48	Analyzed 11/11/22 13:43 11/11/22 13:43 11/11/22 13:43	1

MDL Unit

mg/Kg

D

Prepared

Client Sample ID: SW-79 (0-4')

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

Sample Depth: 0-4'

Analyte

Chloride

REMOVED FROM ANALYSIS TABLE

Result Qualifier

3500

Lab Sample ID: 890-3414-3

Analyzed

11/12/22 04:15

Matrix: Solid

Dil Fac

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:09	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 16:01	11/14/22 14:09	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 16:01	11/14/22 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				11/09/22 16:01	11/14/22 14:09	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/09/22 16:01	11/14/22 14:09	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:19	1

RL

24.9

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3414-1 SDG: 212C-MD-02230

Client Sample ID: SW-79 (0-4')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3414-3

Matrix: Solid

Sample Depth: 0-4'

Method: SW846 8015 NM - Diesel	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			11/14/22 09:30	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared <49.9 U *1 49.9 11/10/22 08:48 11/11/22 14:26 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 11/10/22 08:48 11/11/22 14:26 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 11/10/22 08:48 11/11/22 14:26 I imite Analyzod Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	11/10/22 08:48	11/11/22 14:26	1
o-Terphenyl	107		70 - 130	11/10/22 08:48	11/11/22 14:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride1520F125.2mg/Kg11/12/22 04:205

Client Sample ID: SW-83 (0-4')
Date Collected: 11/07/22 12:00

Date Received: 11/07/22 14:58

Sample Depth: 0-4'

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3414-4

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:29	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 16:01	11/14/22 14:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 16:01	11/14/22 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/09/22 16:01	11/14/22 14:29	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/09/22 16:01	11/14/22 14:29	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total BTEX	Result < 0.00398	Qualifier U	0.00398	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/14/22 16:19	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Dies	Result <0.00398 el Range Organ	Qualifier U	0.00398 GC)		mg/Kg			11/14/22 16:19	1
Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	Result <0.00398 sel Range Organ Result	Qualifier U ics (DRO) (Qualifier	0.00398 GC)	MDL	mg/Kg	<u>D</u>	Prepared Prepared	11/14/22 16:19 Analyzed	Dil Fac Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Dies	Result <0.00398 el Range Organ	Qualifier U ics (DRO) (Qualifier	0.00398 GC)		mg/Kg			11/14/22 16:19	1
Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	Result <0.00398	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 50.0		mg/Kg			11/14/22 16:19 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH	Result <0.00398 sel Range Organ Result <50.0 esel Range Organ	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 50.0		mg/Kg Unit mg/Kg			11/14/22 16:19 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies	Result <0.00398 sel Range Organ Result <50.0 esel Range Orga Result	Qualifier U ics (DRO) (Qualifier U inics (DRO) Qualifier	0.00398 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	11/14/22 16:19 Analyzed 11/14/22 09:30	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <0.00398 sel Range Organ Result <50.0 esel Range Orga Result	Qualifier U ics (DRO) (Qualifier U inics (DRO) Qualifier U inics (DRO)	0.00398 GC) RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	11/14/22 16:19 Analyzed 11/14/22 09:30 Analyzed	Dil Fac Dil Fac

Eurofins Carlsbad

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Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3414-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-83 (0-4')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3414-4

Matrix: Solid

Sample Depth: 0-4'

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86	70 - 130	11/10/22 08:48	11/11/22 14:47	1
o-Terphenyl	88	70 - 130	11/10/22 08:48	11/11/22 14:47	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 11/12/22 04:35 Chloride 2340 25.1 mg/Kg

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-3414-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-3411-A-1-D MS	Matrix Spike	77	102	
90-3411-A-1-E MSD	Matrix Spike Duplicate	95	96	
90-3414-1	SW-75 (0-4')	118	114	
90-3414-2	SW-78 (0-4')	97	106	
90-3414-2 MS	SW-78 (0-4')	111	97	
90-3414-2 MSD	SW-78 (0-4')	105	106	
90-3414-3	SW-79 (0-4')	106	100	
90-3414-4	SW-83 (0-4')	99	100	
.CS 880-39140/1-A	Lab Control Sample	81	100	
.CS 880-39148/1-A	Lab Control Sample	97	103	
.CSD 880-39140/2-A	Lab Control Sample Dup	77	104	
.CSD 880-39148/2-A	Lab Control Sample Dup	105	110	
/IB 880-39140/5-A	Method Blank	89	100	
//B 880-39148/5-A	Method Blank	81	106	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (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)	
890-3402-A-1-G MS	Matrix Spike	86	79	
890-3402-A-1-H MSD	Matrix Spike Duplicate	82	73	
890-3414-1	SW-75 (0-4')	90	96	
890-3414-2	SW-78 (0-4')	92	94	
890-3414-3	SW-79 (0-4')	100	107	
890-3414-4	SW-83 (0-4')	86	88	
LCS 880-39172/2-A	Lab Control Sample	94	97	
LCSD 880-39172/3-A	Lab Control Sample Dup	107	109	
MB 880-39172/1-A	Method Blank	119	134 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-3414-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39140/5-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39140

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepai	red	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	11/09/22	15:36	11/12/22 21:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/09/22	15:36	11/12/22 21:52	1

Lab Sample ID: LCS 880-39140/1-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39140

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09752 mg/Kg 98 70 - 130 Toluene 0.100 0.09567 mg/Kg 96 70 - 130 0.100 Ethylbenzene 0.08894 mg/Kg 89 70 - 130 0.200 0.1685 84 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09351 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	81	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-39140/2-A

Matrix: Solid

Analyte

Toluene

o-Xylene

Analysis Batch: 39369

Client Sample ID: Lab Control Sample Dup

70 - 130

96

Prep Type: Total/NA Prep Batch: 39140

RPD LCSD LCSD Spike %Rec Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.09869 mg/Kg 99 70 - 130 35 0.100 0.09592 mg/Kg 96 70 - 130 0 35 Ethylbenzene 0.100 0.09030 mg/Kg 90 70 - 130 2 35 m-Xylene & p-Xylene 0.200 0.1711 mg/Kg 86 70 - 130 35 0.100 0.09589

mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1.4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-3411-A-1-D MS

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39140

35

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09300		mg/Kg		93	70 - 130	
Toluene	< 0.00200	U	0.0996	0.08826		mg/Kg		89	70 - 130	

Prep Type: Total/NA

Prep Batch: 39140

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3414-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3411-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 39369

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0996	0.07882		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1462		mg/Kg		73	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.08198		mg/Kg		82	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	77	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 890-3411-A-1-E MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 39369	Prep Batch: 39140

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.0998 0.08398 Benzene <0.00200 U mg/Kg 84 70 - 130 10 35 Toluene <0.00200 U 0.0998 0.08420 70 - 130 35 mg/Kg 84 5 Ethylbenzene <0.00200 U 0.0998 0.08062 mg/Kg 81 70 - 130 2 35 m-Xylene & p-Xylene <0.00401 U 0.200 0.1625 81 70 - 130 11 35 mg/Kg

0.09115

mg/Kg

0.0998

MSD MSD

<0.00200 U

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: MB 880-39148/5-A

Matrix: Solid

o-Xylene

Analysis Batch: 39393

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 39148

70 - 130

11

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 16:01	11/14/22 13:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 16:01	11/14/22 13:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 16:01	11/14/22 13:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 16:01	11/14/22 13:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 16:01	11/14/22 13:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/09/22 16:01	11/14/22 13:20	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	ı	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	11/	/09/22 16:01	11/14/22 13:20	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/	/09/22 16:01	11/14/22 13:20	1

Lab Sample ID: LCS 880-39148/1-A

Matrix: Solid

Analysis Batch: 39393

Client Sample ID:	Lab Control Sample
	Prep Type: Total/NA

Prep Batch: 39148

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09113		mg/Kg		91	70 - 130	
Toluene	0.100	0.09738		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09503		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1754		mg/Kg		88	70 - 130	

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: SW-78 (0-4')

Client Sample ID: SW-78 (0-4')

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 39148

Prep Batch: 39148

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client: Tetra Tech, Inc. Job ID: 890-3414-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-39148/1-A **Matrix: Solid**

Analysis Batch: 39393

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0.100 0.08684 87 70 - 130 mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 97 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 103

Lab Sample ID: LCSD 880-39148/2-A

Matrix: Solid

Analysis Batch: 39393							Prep	Batch:	39148	
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1053		mg/Kg		105	70 - 130	14	35	
Toluene	0.100	0.1145		mg/Kg		115	70 - 130	16	35	
Ethylbenzene	0.100	0.1151		mg/Kg		115	70 - 130	19	35	
m-Xylene & p-Xylene	0.200	0.2129		mg/Kg		106	70 - 130	19	35	
o-Xylene	0.100	0.1033		mg/Kg		103	70 - 130	17	35	

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 105 70 - 130 1,4-Difluorobenzene (Surr) 110 70 - 130

Lab Sample ID: 890-3414-2 MS

Matrix: Solid

Analysis Batch: 39393

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.100	0.08043		mg/Kg		80	70 - 130
Toluene	<0.00201	U	0.100	0.08943		mg/Kg		89	70 - 130
Ethylbenzene	<0.00201	U F1	0.100	0.08382		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1547		mg/Kg		77	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.07599		mg/Kg		75	70 - 130

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 111 70 - 130 1,4-Difluorobenzene (Surr) 97

Lab Sample ID: 890-3414-2 MSD

Matrix: Solid

Analysis Batch: 39393									Prep	Batch:	Batch: 39148	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00201	U	0.0990	0.09009	-	mg/Kg		91	70 - 130	11	35	
Toluene	<0.00201	U	0.0990	0.08614		mg/Kg		87	70 - 130	4	35	
Ethylbenzene	<0.00201	U F1	0.0990	0.06835	F1	mg/Kg		69	70 - 130	20	35	
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1239	F1	mg/Kg		63	70 - 130	22	35	
o-Xylene	<0.00201	U F1	0.0990	0.06260	F1	mg/Kg		63	70 - 130	19	35	

Job ID: 890-3414-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3414-2 MSD

Matrix: Solid

Analysis Batch: 39393

Client Sample ID: SW-78 (0-4')

Prep Type: Total/NA

Prep Batch: 39148

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-39172/1-A

Matrix: Solid

Analysis Batch: 39269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39172

MB MB

Analyte	Result	Qualifier	RL	MDL U	Init	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	m	ng/Kg		11/10/22 08:48	11/11/22 09:30	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	m	ng/Kg		11/10/22 08:48	11/11/22 09:30	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	m	ng/Kg		11/10/22 08:48	11/11/22 09:30	1

MB MB

Surrogate	%Recovery Qualific	er Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119	70 - 130	11/10/22 08:48	11/11/22 09:30	1
o-Terphenyl	134 S1+	70 - 130	11/10/22 08:48	11/11/22 09:30	1

Lab Sample ID: LCS 880-39172/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

1000

100 100

Matrix. Soliu							Fieb i	pe. Iotai/NA
Analysis Batch: 39269							Prep	Batch: 39172
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	815.5		mg/Kg		82	70 - 130	

846.7

mg/Kg

(GRO)-C6-C10 Diesel Range Organics (Over

C10-C28)

	LC3 LC3	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	94	70 - 130
o-Terphenyl	97	70 - 130

Lab Sample ID: LCSD 880-39172/3-A

Matrix: Solid

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Analysis Batch: 39269

Client Sample ID: Lab Control Sample Dup

70 - 130

Prep Type: Total/NA Prep Batch: 39172

LCSD LCSD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit 1003 *1 Gasoline Range Organics 1000 100 70 - 130 21 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 950.2 95 70 - 130 12 20 mg/Kg

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	107	70 - 130
o-Terphenyl	109	70 - 130

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RPD

Job ID: 890-3414-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3402-A-1-G MS

Matrix: Solid

Analysis Batch: 39269

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 39172

Sample Sample Spike MS MS Result Qualifier Analyte babbA Result Qualifier Unit %Rec Limits Gasoline Range Organics 55.1 *1 997 1007 mg/Kg 95 70 - 130 (GRO)-C6-C10 997 Diesel Range Organics (Over <50.0 U 861.7 mg/Kg 84 70 - 130C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 890-3402-A-1-H MSD

Matrix: Solid

Analysis Batch: 39269

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 39172

%Rec RPD

Spike MSD MSD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit 999 978.6 3 Gasoline Range Organics 55.1 mg/Kg 92 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 796.8 mg/Kg 77 70 - 130 8 20 C10-C28)

70 - 130

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 82 70 - 130

73

MB MB

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39126/1-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 39335

Client Sample ID: Method Blank **Prep Type: Soluble**

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Analyte Result Qualifier MDL Unit Dil Fac RL Prepared Analyzed Chloride <5.00 U 5.00 11/12/22 02:56 mg/Kg

Lab Sample ID: LCS 880-39126/2-A

Matrix: Solid

Analysis Batch: 39335

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	266.1		ma/Ka		106	90 - 110	

Lab Sample ID: LCSD 880-39126/3-A

Matrix: Solid

Analysis Batch: 39335

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	258.9		mg/Kg		104	90 - 110	3	20

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3414-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3414-3 MS Client Sample ID: SW-79 (0-4') **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 39335

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Chloride 1520 F1 1260 2880 mg/Kg 109 90 - 110

Lab Sample ID: 890-3414-3 MSD Client Sample ID: SW-79 (0-4')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 39335

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec 1260 Chloride 1520 F1 3027 F1 mg/Kg 120 90 - 110 5 20

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC VOA

Prep Batch: 39140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Total/NA	Solid	5035	
MB 880-39140/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3411-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3411-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 39148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-2	SW-78 (0-4')	Total/NA	Solid	5035	
890-3414-3	SW-79 (0-4')	Total/NA	Solid	5035	
890-3414-4	SW-83 (0-4')	Total/NA	Solid	5035	
MB 880-39148/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39148/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39148/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3414-2 MS	SW-78 (0-4')	Total/NA	Solid	5035	
890-3414-2 MSD	SW-78 (0-4')	Total/NA	Solid	5035	

Analysis Batch: 39369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Total/NA	Solid	8021B	39140
MB 880-39140/5-A	Method Blank	Total/NA	Solid	8021B	39140
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	8021B	39140
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39140
890-3411-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	39140
890-3411-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	39140

Analysis Batch: 39393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-2	SW-78 (0-4')	Total/NA	Solid	8021B	39148
890-3414-3	SW-79 (0-4')	Total/NA	Solid	8021B	39148
890-3414-4	SW-83 (0-4')	Total/NA	Solid	8021B	39148
MB 880-39148/5-A	Method Blank	Total/NA	Solid	8021B	39148
LCS 880-39148/1-A	Lab Control Sample	Total/NA	Solid	8021B	39148
LCSD 880-39148/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39148
890-3414-2 MS	SW-78 (0-4')	Total/NA	Solid	8021B	39148
890-3414-2 MSD	SW-78 (0-4')	Total/NA	Solid	8021B	39148

Analysis Batch: 39554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Total/NA	Solid	Total BTEX	
890-3414-2	SW-78 (0-4')	Total/NA	Solid	Total BTEX	
890-3414-3	SW-79 (0-4')	Total/NA	Solid	Total BTEX	
890-3414-4	SW-83 (0-4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 39172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Total/NA	Solid	8015NM Prep	
890-3414-2	SW-78 (0-4')	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Prep Batch: 39172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-3	SW-79 (0-4')	Total/NA	Solid	8015NM Prep	
890-3414-4	SW-83 (0-4')	Total/NA	Solid	8015NM Prep	
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Total/NA	Solid	8015B NM	39172
890-3414-2	SW-78 (0-4')	Total/NA	Solid	8015B NM	39172
890-3414-3	SW-79 (0-4')	Total/NA	Solid	8015B NM	39172
890-3414-4	SW-83 (0-4')	Total/NA	Solid	8015B NM	39172
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015B NM	39172
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39172
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39172
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	39172
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39172

Analysis Batch: 39398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Total/NA	Solid	8015 NM	
890-3414-2	SW-78 (0-4')	Total/NA	Solid	8015 NM	
890-3414-3	SW-79 (0-4')	Total/NA	Solid	8015 NM	
890-3414-4	SW-83 (0-4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Soluble	Solid	DI Leach	_
890-3414-2	SW-78 (0-4')	Soluble	Solid	DI Leach	
890-3414-3	SW-79 (0-4')	Soluble	Solid	DI Leach	
890-3414-4	SW-83 (0-4')	Soluble	Solid	DI Leach	
MB 880-39126/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39126/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39126/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3414-3 MS	SW-79 (0-4')	Soluble	Solid	DI Leach	
890-3414-3 MSD	SW-79 (0-4')	Soluble	Solid	DI Leach	

Analysis Batch: 39335

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Soluble	Solid	300.0	39126
890-3414-2	SW-78 (0-4')	Soluble	Solid	300.0	39126
890-3414-3	SW-79 (0-4')	Soluble	Solid	300.0	39126
890-3414-4	SW-83 (0-4')	Soluble	Solid	300.0	39126
MB 880-39126/1-A	Method Blank	Soluble	Solid	300.0	39126
LCS 880-39126/2-A	Lab Control Sample	Soluble	Solid	300.0	39126
LCSD 880-39126/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39126
890-3414-3 MS	SW-79 (0-4')	Soluble	Solid	300.0	39126

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Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

HPLC/IC (Continued)

Analysis Batch: 39335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-3 MSD	SW-79 (0-4')	Soluble	Solid	300.0	39126

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4.0

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Job ID: 890-3414-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-75 (0-4')

Date Received: 11/07/22 14:58

Lab Sample ID: 890-3414-1 Date Collected: 11/07/22 12:00 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 05:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39554	11/14/22 16:13	SM	EET MIC
Total/NA	Analysis	8015 NM		1			39398	11/14/22 09:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39172	11/10/22 08:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39269	11/11/22 14:04	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39126	11/09/22 15:04	KS	EET MIC
Soluble	Analysis	300.0		5	0 mL	1.0 mL	39335	11/12/22 04:10	CH	EET MID

Client Sample ID: SW-78 (0-4')

Lab Sample ID: 890-3414-2 Date Collected: 11/07/22 12:00 Matrix: Solid

Date Received: 11/07/22 14:58

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 4.97 g 5 mL 39148 11/09/22 16:01 MNR EET MID Total/NA 8021B 5 mL 39393 11/14/22 13:48 **EET MID** Analysis 1 5 mL MNR Total/NA Total BTEX 39554 11/14/22 16:19 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 39398 11/14/22 09:30 SM **EET MID** Total/NA 39172 11/10/22 08:48 Prep 8015NM Prep 10.01 g 10 mL DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 39269 11/11/22 13:43 SM **EET MID** Soluble 11/09/22 15:04 KS Leach DI Leach 5.02 g 50 mL 39126 EET MID Soluble Analysis 300.0 5 0 mL 1.0 mL 39335 11/12/22 04:15 СН **EET MID**

Client Sample ID: SW-79 (0-4')

Date Collected: 11/07/22 12:00

Date Received: 11/07/22 14:58

Lab Sample ID: 890-3414-3

Lab Sample ID: 890-3414-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39148	11/09/22 16:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39393	11/14/22 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39554	11/14/22 16:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			39398	11/14/22 09:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39172	11/10/22 08:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39269	11/11/22 14:26	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39126	11/09/22 15:04	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	39335	11/12/22 04:20	CH	EET MID

Client Sample ID: SW-83 (0-4')

Date Collected: 11/07/22 12:00

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39148	11/09/22 16:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39393	11/14/22 14:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39554	11/14/22 16:19	SM	EET MID

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Matrix: Solid

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Lab Chronicle

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-83 (0-4')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58 Lab Sample ID: 890-3414-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39398	11/14/22 09:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39172	11/10/22 08:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39269	11/11/22 14:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39126	11/09/22 15:04	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	39335	11/12/22 04:35	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas		ELAP	T104704400-22-24	06-30-23	
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for w	
the agency does not of	fer certification.	,	ou s, and governmig dualismy.	ay molado analytoo for v	
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	ay morado anarytoo tor v	
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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** Total BTEX 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 MCAWW **EET MID** 5035 SW846 **EET MID** Closed System Purge and Trap 8015NM Prep Microextraction SW846 EET MID DI Leach Deionized Water Leaching Procedure ASTM **EET MID**

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3414-1

SDG: 212C-MD-02230

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3414-1	SW-75 (0-4')	Solid	11/07/22 12:00	11/07/22 14:58	0-4'
890-3414-2	SW-78 (0-4')	Solid	11/07/22 12:00	11/07/22 14:58	0-4'
890-3414-3	SW-79 (0-4')	Solid	11/07/22 12:00	11/07/22 14:58	0-4'
890-3414-4	SW-83 (0-4')	Solid	11/07/22 12:00	11/07/22 14:58	0-4'

	Relinquished by:	7	Relinquished by	Relinquished by										(LABUSE)	A D #:		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	귣	Analysis Ke	
	/ Date:	2271 COVI 1902 1458		11/7/22 Ime:	J					SW-83 (0-4")	SW-79 (0-4')	SW-78 (0-4')	SW-75 (0-4')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record	
ORIGINAL COPY	Received by:		Received by:	Received by:						11/7/2022	11/7/2022	11/7/2022	11/7/2022	DATE	YEAR: 2020	SAMPLING		Call Dies Cigitation	0	Project #:		Site Manager			
PΥ										×	×	×	×	WATER SOIL	1	MATRIX		Peyto		212C	Clair.Gonzales@tetratech.com	Clair Gonzales	Midland, Tel (43: Fax	A MALOS	
	Date: Time:		Date: Time:	Cale:	-					×	×	×	×	HCL HNO ₃ ICE None		PRESERVATIVE METHOD		Peyton Oliver		212C-MD-02230	tratech.com	nzales	Mdland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	vair ~	890-3414 Chain
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3414-1

SDG Number: 212C-MD-02230

Login Number: 3414
List Source: Eurofins Carlsbad
List Number: 1

Creator: Stutzman, Amanda

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	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3414-1 SDG Number: 212C-MD-02230

List Source: Eurofins Midland

List Source: Eurotins Midland
List Creation: 11/09/22 10:47 AM

Login Number: 3414 List Number: 2

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	Commont
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 Carlsbad

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clair Gonzales Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Generated 12/27/2022 9:17:54 AM

JOB DESCRIPTION

Kaiser SWD SDG NUMBER Lea County NM

JOB NUMBER

890-3652-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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 12/27/2022 9:17:54 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Companies

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3652-1

SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-3652-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description** MS and/or MSD recovery exceeds control limits. 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**

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

Percent Recovery %R 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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-3652-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3652-1

Receipt

The samples were received on 12/14/2022 12:37 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 10.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH-210 (11') (890-3652-1), SW-75 (0-4') (890-3652-2), SW-75 (4-10') (890-3652-3), SW-76 (0-4.5') (890-3652-4), SW-79 (0-4') (890-3652-5) and SW-83 (0-4') (890-3652-6).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-42002 and analytical batch 880-42108 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-42002 and analytical batch 880-42108 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41942 and analytical batch 880-42078 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-3644-A-1-D). 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.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Job ID: 890-3652-1 SDG: Lea County NM

Client Sample ID: BH-210 (11')

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Lab Sample ID: 890-3652-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:15	1
Toluene	< 0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:15	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 12:14	12/27/22 02:15	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 12:14	12/27/22 02:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/22/22 12:14	12/27/22 02:15	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/22/22 12:14	12/27/22 02:15	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	П	0.00398		mg/Kg			12/27/22 09:32	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 12/19/22 15:23 mg/Kg

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:01	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:01	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Method: MCAWW 300.0 - Anions, Ion Chro	matography - Soli	uble			
o-Terphenyl	80	70 - 130	12/16/22 09:37	12/18/22 19:01	1
1-Chlorooctane	86	70 - 130	12/16/22 09:37	12/18/22 19:01	1

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 5.00 Chloride 12/23/22 21:57 699 mg/Kg

Client Sample ID: SW-75 (0-4')

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

Lab Sample ID: 890-3652-2

12/22/22 12:14

Matrix: Solid

103

Method. 344040 0021D - Volati	ne Organic Comp	ounus (GC)	,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 12:14	12/27/22 02:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 12:14	12/27/22 02:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/22/22 12:14	12/27/22 02:36	1

Eurofins Carlsbad

12/27/22 02:36

70 - 130

1,4-Difluorobenzene (Surr)

Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-75 (0-4')

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

Lab Sample ID: 890-3652-2

Matrix: Solid

Total BTEX <0.00398 U 0.00398 mg/Kg 12/27/22 09:3	
	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac

•							•	•	
Total TPH	<50.0	U	50.0		mg/Kg			12/19/22 15:23	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:23	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:23	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				12/16/22 09:37	12/18/22 19:23	1
o-Terphenyl	97		70 - 130				12/16/22 09:37	12/18/22 19:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 1020 5.04 12/23/22 22:24 Chloride mg/Kg

Client Sample ID: SW-75 (4-10') Lab Sample ID: 890-3652-3 Date Collected: 12/14/22 12:00 **Matrix: Solid**

Date Received: 12/14/22 12:37

Released to Imaging: 9/1/2023 3:11:42 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 02:56	
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 02:56	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 02:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/22/22 12:14	12/27/22 02:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 02:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/22/22 12:14	12/27/22 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				12/22/22 12:14	12/27/22 02:56	1
			70 - 130				12/22/22 12:14	12/27/22 02:56	
Method: TAL SOP Total BTEX - Analyte	· Total BTEX Cald	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	12/22/22 12:14 Prepared	Analyzed	
Method: TAL SOP Total BTEX - Analyte Total BTEX	- Total BTEX Calc Result <	Qualifier U	RL 0.00399	MDL	Unit mg/Kg	<u>D</u>			
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies	Total BTEX Calc Result 	Qualifier U	RL 0.00399		mg/Kg	<u>D</u>	Prepared	Analyzed 12/27/22 09:32	Dil Fac
Method: TAL SOP Total BTEX - Analyte	Total BTEX Calc Result 	Qualifier U ics (DRO) (Qualifier	RL 0.00399					Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH	rotal BTEX Calc Result <0.00399 sel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 49.9		mg/Kg		Prepared	Analyzed 12/27/22 09:32 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies	rotal BTEX Calc Result Result Calc Result Calc /a>	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 49.9	MDL	mg/Kg		Prepared	Analyzed 12/27/22 09:32 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	rotal BTEX Calc Result Result Calc Result Calc /a>	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00399 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 12/27/22 09:32 Analyzed 12/19/22 15:23	Dil Fac

Client: Tetra Tech, Inc.

Job ID: 890-3652-1 SDG: Lea County NM

Project/Site: Kaiser SWD Client Sample ID: SW-75 (4-10') Lab Sample ID: 890-3652-3

Date Collected: 12/14/22 12:00 Matrix: Solid Date Received: 12/14/22 12:37

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/22 09:37	12/18/22 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				12/16/22 09:37	12/18/22 19:46	1
o-Terphenyl	94		70 - 130				12/16/22 09:37	12/18/22 19:46	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 1390 25.2 12/23/22 22:32 Chloride mg/Kg

Client Sample ID: SW-76 (0-4.5') Lab Sample ID: 890-3652-4 Date Collected: 12/14/22 12:00 **Matrix: Solid**

Date Received: 12/14/22 12:37

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:00	-
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:00	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:00	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/22/22 12:14	12/27/22 04:00	
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:00	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/22/22 12:14	12/27/22 04:00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				12/22/22 12:14	12/27/22 04:00	
1,4-Difluorobenzene (Surr)	93		70 - 130				12/22/22 12:14	12/27/22 04:00	
Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/27/22 09:32	
			•	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/19/22 15:35	Dil Fa
Analyte	Result <49.9	Qualifier U	RL 49.9	MDL		<u>D</u>	Prepared		Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg	<u>D</u>	Prepared	12/19/22 15:35 Analyzed	
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U nics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg			12/19/22 15:35	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)		mg/Kg		Prepared	12/19/22 15:35 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9		mg/Kg Unit mg/Kg		Prepared 12/15/22 15:21	12/19/22 15:35 Analyzed 12/18/22 07:12	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 15:21 12/15/22 15:21	12/19/22 15:35 Analyzed 12/18/22 07:12 12/18/22 07:12	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21	Analyzed 12/18/22 07:12 12/18/22 07:12 12/18/22 07:12	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 Prepared	Analyzed 12/18/22 07:12 12/18/22 07:12 12/18/22 07:12 12/18/22 07:12 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 Prepared 12/15/22 15:21	12/19/22 15:35 Analyzed 12/18/22 07:12 12/18/22 07:12 12/18/22 07:12 Analyzed 12/18/22 07:12	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 Prepared 12/15/22 15:21	12/19/22 15:35 Analyzed 12/18/22 07:12 12/18/22 07:12 12/18/22 07:12 Analyzed 12/18/22 07:12	Dil Fa

Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-79 (0-4')

Lab Sample ID: 890-3652-5 Date Collected: 12/14/22 12:00

Matrix: Solid Date Received: 12/14/22 12:37

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/22/22 12:14	12/27/22 04:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/22/22 12:14	12/27/22 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				12/22/22 12:14	12/27/22 04:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/22/22 12:14	12/27/22 04:20	1
Method: TAL SOP Total BTEX -	Total BTEX Cale	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/27/22 09:32	1
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	mg/Kg	D	Prepared	Analyzed 12/19/22 15:35	Dil Fac
- 					0 0				
		mine (DDO)	(00)						
Method: SW846 8015B NM - Die				MDI	l l m i é	Б	Dunnawad	Analysis	Dil Faa
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared 12/15/22 15:21	Analyzed 12/18/22 07:34	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U	RL	MDL	mg/Kg	<u>D</u>	<u>.</u>		
Analyte	Result <49.9	Qualifier U	RL 49.9	MDL		<u>D</u>	12/15/22 15:21	12/18/22 07:34	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	RL 49.9	MDL	mg/Kg	<u>D</u>	12/15/22 15:21	12/18/22 07:34	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U U	RL 49.9 49.9	MDL	mg/Kg	<u>D</u>	12/15/22 15:21 12/15/22 15:21	12/18/22 07:34	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9	Qualifier U U U	RL 49.9 49.9 49.9	MDL	mg/Kg	<u> </u>	12/15/22 15:21 12/15/22 15:21 12/15/22 15:21	12/18/22 07:34 12/18/22 07:34 12/18/22 07:34	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U	### ##################################	MDL	mg/Kg	<u> </u>	12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 Prepared	12/18/22 07:34 12/18/22 07:34 12/18/22 07:34 12/18/22 07:34 Analyzed	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg	<u>D</u>	12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 Prepared 12/15/22 15:21	12/18/22 07:34 12/18/22 07:34 12/18/22 07:34 Analyzed 12/18/22 07:34	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg	<u>D</u>	12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 Prepared 12/15/22 15:21	12/18/22 07:34 12/18/22 07:34 12/18/22 07:34 Analyzed 12/18/22 07:34	1 1 1 1 Dil Fac

Client Sample ID: SW-83 (0-4') Lab Sample ID: 890-3652-6 Date Collected: 12/14/22 12:00 **Matrix: Solid**

Date Received: 12/14/22 12:37

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 04:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 04:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 04:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 12:14	12/27/22 04:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 04:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 12:14	12/27/22 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				12/22/22 12:14	12/27/22 04:41	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/22/22 12:14	12/27/22 04:41	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-83 (0-4')

Lab Sample ID: 890-3652-6 Date Collected: 12/14/22 12:00

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/22 09:32	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 07:56	•
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 07:56	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 07:56	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	113		70 - 130				12/15/22 15:21	12/18/22 07:56	
o-Terphenyl	125		70 - 130				12/15/22 15:21	12/18/22 07:56	
- Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1070		5.03		mg/Kg			12/23/22 23:16	

Released to Imaging: 9/1/2023 3:11:42 PM

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea 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)	
890-3652-1	BH-210 (11')	115	102	
890-3652-2	SW-75 (0-4')	116	103	
890-3652-3	SW-75 (4-10')	95	99	
890-3652-4	SW-76 (0-4.5')	111	93	
890-3652-5	SW-79 (0-4')	120	102	
890-3652-6	SW-83 (0-4')	128	102	
890-3662-A-1-H MS	Matrix Spike	114	101	
390-3662-A-1-I MSD	Matrix Spike Duplicate	99	94	
LCS 880-42514/1-A	Lab Control Sample	96	93	
LCSD 880-42514/2-A	Lab Control Sample Dup	98	93	
MB 880-42487/5-A	Method Blank	97	92	
MB 880-42514/5-A	Method Blank	107	97	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-3638-A-1-D MS	Matrix Spike	92	72	
0-3638-A-1-E MSD	Matrix Spike Duplicate	106	81	
0-3644-A-1-E MS	Matrix Spike	104	104	
0-3644-A-1-F MSD	Matrix Spike Duplicate	104	103	
0-3652-1	BH-210 (11')	86	80	
0-3652-2	SW-75 (0-4')	110	97	
0-3652-3	SW-75 (4-10')	103	94	
0-3652-4	SW-76 (0-4.5')	110	126	
-3652-5	SW-79 (0-4')	109	122	
-3652-6	SW-83 (0-4')	113	125	
S 880-41942/2-A	Lab Control Sample	109	118	
S 880-42002/2-A	Lab Control Sample	82	91	
SD 880-41942/3-A	Lab Control Sample Dup	108	118	
SD 880-42002/3-A	Lab Control Sample Dup	108	99	
B 880-41942/1-A	Method Blank	126	142 S1+	
3 880-42002/1-A	Method Blank	139 S1+	131 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42487/5-A

Matrix: Solid

Analysis Batch: 42596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42487

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 10:36	12/26/22 13:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 10:36	12/26/22 13:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 10:36	12/26/22 13:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/22/22 10:36	12/26/22 13:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 10:36	12/26/22 13:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/22/22 10:36	12/26/22 13:51	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	1	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/	/22/22 10:36	12/26/22 13:51	1
1,4-Difluorobenzene (Surr)	92		70 - 130	12/	/22/22 10:36	12/26/22 13:51	1

Lab Sample ID: MB 880-42514/5-A

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42514

Analysis Batch: 42596

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/26/22 23:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/26/22 23:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/26/22 23:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/22/22 12:14	12/26/22 23:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/26/22 23:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/22/22 12:14	12/26/22 23:30	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/22/22 12:14	12/26/22 23:30	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/22/22 12:14	12/26/22 23:30	1

Lab Sample ID: LCS 880-42514/1-A

Matrix: Solid

Analysis Batch: 42596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 42514

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier U	Init	D	%Rec	Limits	
Benzene	0.100	0.09444	m	ng/Kg	_	94	70 - 130	
Toluene	0.100	0.09109	m	ng/Kg		91	70 - 130	
Ethylbenzene	0.100	0.08635	m	ng/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1924	n	ng/Kg		96	70 - 130	
o-Xylene	0.100	0.09703	n	ng/Kg		97	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1.4-Difluorobenzene (Surr)	93	70 - 130

Lab Sample ID: LCSD 880-42514/2-A

Matrix: Solid

Analysis Batch: 42596

Client Sample ID:	Lab Control Sample Dup
	Dren Times Tetal/NA

Prep Type: Total/NA

Prep Batch: 42514

	Spike	LCSD LCSD				70Rec		KFD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09605	mg/Kg		96	70 - 130	2	35	

LCCD LCCD

Cnika

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

 Lab Sample ID: LCSD 880-42514/2-A
 Client Sample ID: Lab Control Sample Dup Matrix: Solid

 Matrix: Solid
 Prep Type: Total/NA

 Analysis Batch: 42596
 Spike
 LCSD
 LCSD
 %Rec
 RPD

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits
 RPD
 Limit

 Toluene
 0.100
 0.09288
 mg/Kg
 93
 70 - 130
 2
 35

 Ethylhenzene
 0.100
 0.08850
 mg/Kg
 89
 70 130
 2
 35

Analyte	Audeu	itesuit 4	guanner ont	/01100	Liiiits	111 0	
Toluene	0.100	0.09288	mg/Kg	93	70 - 130	2	35
Ethylbenzene	0.100	0.08850	mg/Kg	89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1984	mg/Kg	99	70 - 130	3	35
o-Xylene	0.100	0.1003	mg/Kg	100	70 - 130	3	35
	LCSD LCSD						

%Recovery	Qualifier	Limits
98		70 - 130
93		70 - 130
	%Recovery	

Lab Sample ID: 890-3662-A-1-H MS

Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 42596 Prep Batch: 42514

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.08976		mg/Kg		90	70 - 130	
Toluene	<0.00201	U F1	0.100	0.07517		mg/Kg		75	70 - 130	
Ethylbenzene	<0.00201	U F1	0.100	0.05923	F1	mg/Kg		59	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1329	F1	mg/Kg		66	70 - 130	
o-Xylene	<0.00201	U F1	0.100	0.06702	F1	mg/Kg		67	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-3662-A-1-I MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 42596 Prep Batch: 42514

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0996	0.07551		mg/Kg		76	70 - 130	17	35
Toluene	<0.00201	U F1	0.0996	0.06302	F1	mg/Kg		63	70 - 130	18	35
Ethylbenzene	<0.00201	U F1	0.0996	0.04699	F1	mg/Kg		47	70 - 130	23	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1036	F1	mg/Kg		52	70 - 130	25	35
o-Xylene	<0.00201	U F1	0.0996	0.05231	F1	mg/Kg		53	70 - 130	25	35

	MISD	INISD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

MSD MSD

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-41942/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

MB MB

Inalyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Gasoline Range Organics <50.0 U 50.0 mg/Kg 12/15/22 15:21 12/17/22 22:54 1 (GRO)-C6-C10

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Prep Batch: 41942

Analysis Batch: 42078

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Client Sample ID: Method Blank

Job ID: 890-3652-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-41942/1-A **Matrix: Solid**

Analysis Batch: 42078

Prep Type: Total/NA Prep Batch: 41942 MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 12/15/22 15:21 12/17/22 22:54 Diesel Range Organics (Over mg/Kg C10-C28) 50.0 12/15/22 15:21 12/17/22 22:54 Oll Range Organics (Over C28-C36) <50.0 U mg/Kg

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 126 70 - 130 12/15/22 15:21 12/17/22 22:54 142 S1+ 70 - 130 12/15/22 15:21 12/17/22 22:54 o-Terphenyl

Lab Sample ID: LCS 880-41942/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid Analysis Batch: 42078

	S	pike	LCS	LCS				%Rec	
Analyte	Ac	lded	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1	000	848.4		mg/Kg		85	70 - 130	
(GRO)-C6-C10									
Diesel Range Organics (Over	1	000	1024		mg/Kg		102	70 - 130	
C10-C28)									

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 109 o-Terphenyl 118 70 - 130

Lab Sample ID: LCSD 880-41942/3-A

Matrix: Solid

Analysis Batch: 42078

Prep Batch: 41942 Spike LCSD LCSD %Rec **RPD** Added Result Qualifier %Rec Limits RPD Limit Analyte Unit D Gasoline Range Organics 1000 831.8 83 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1011 mg/Kg 101 70 - 130 20

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 108 70 - 130 o-Terphenyl 118 70 - 130

Lab Sample ID: 890-3644-A-1-E MS

Matrix: Solid

C10-C28)

Analysis Batch: 42078

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 41942

MS MS %Rec Sample Sample Spike Result Qualifier Added Qualifier %Rec Analyte Result Unit Limits <50.0 U 999 954.0 Gasoline Range Organics 93 70 - 130mg/Kg (GRO)-C6-C10 999 Diesel Range Organics (Over <50.0 U 1159 mg/Kg 114 70 - 130 C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	104		70 - 130

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Prep Batch: 41942

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Job ID: 890-3652-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Sample Sample

Lab Sample ID: 890-3644-A-1-F MSD

Matrix: Solid

Analysis Batch: 42078

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 41942

RPD RPD Limit D %Rec Limits

Result Qualifier Analyte Added Result Qualifier Unit Gasoline Range Organics <50.0 U 997 1038 mg/Kg 102 70 - 130 8 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 mg/Kg 70 - 130 1144 113 20

MSD MSD

Spike

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 104 o-Terphenyl 103 70 - 130

Lab Sample ID: MB 880-42002/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 42108

мв мв

Prep Type: Total/NA Prep Batch: 42002

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac 12/18/22 09:55 Gasoline Range Organics <50.0 U 50.0 mg/Kg 12/16/22 09:37 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 12/16/22 09:37 12/18/22 09:55 OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/16/22 09:37 12/18/22 09:55

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	12/16/22 09:37	12/18/22 09:55	1
o-Terphenyl	131	S1+	70 - 130	12/16/22 09:37	12/18/22 09:55	1

Lab Sample ID: LCS 880-42002/2-A

Matrix: Solid

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 42108 Prep Batch: 42002

LCSD LCSD

871.7

818.2

Result Qualifier

Unit

mg/Kg

mg/Kg

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	843.1		mg/Kg		84	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	745.4		mg/Kg		75	70 - 130
C10-C28)							

LCS LCS

Surrogate	%Recovery Qual	ifier Limits
1-Chlorooctane	82	70 - 130
o-Terphenyl	91	70 - 130

Lab Sample ID: LCSD 880-42002/3-A

Matrix: Solid

Analysis Batch: 42108

Gasoline Range Organics

Diesel Range Organics (Over

70 - 130

%Rec

87

82

Prep Type: Total/NA Prep Batch: 42002

RPD %Rec Limits RPD Limit 70 - 130 3 20

C10-C28)

Analyte

(GRO)-C6-C10

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Spike

Added

1000

1000

Lab Sample ID: LCSD 880-42002/3-A

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3652-1 SDG: Lea County NM

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 42002

LCSD LCSD

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-3638-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 42108

Analysis Batch: 42108

Matrix: Solid

Prep Type: Total/NA

Prep Batch: 42002

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	774.5		mg/Kg		74	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	999	908.6		mg/Kg		91	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 92 70 - 130 1-Chlorooctane 72 70 - 130 o-Terphenyl

Lab Sample ID: 890-3638-A-1-E MSD

Matrix: Solid

Analysis Batch: 42108

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 42002

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	885.1		mg/Kg		86	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1027		mg/Kg		103	70 - 130	12	20

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 106 o-Terphenyl 81 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41931/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 42334

мв мв Dil Fac Analyte Result Qualifier RL MDL Unit Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 12/23/22 21:31

Lab Sample ID: LCS 880-41931/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 42334

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	268.3		mg/Kg		107	90 - 110	

QC Sample Results

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3652-1

SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

699

Lab Sample ID: LCSD 880-41931/3-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Prep Type: Soluble

LCCD LCCD

Analysis Batch: 42334

	Бріке	LCSD	LCSD			%Rec		KPD
Analyte	Added	Result	Qualifier	Unit D	%Rec	Limits	RPD	Limit
Chloride	250	264.7		mg/Kg	106	90 - 110	1	20

Chiles

Lab Sample ID: 890-3652-1 MS

Client Sample ID: BH-210 (11')

Matrix: Solid

Prep Type: Soluble

Matrix: Solid
Analysis Batch: 42334

Prep Type: Soluble

Sample Sample Spike MS MS %Rec
Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits

250

Lab Sample ID: 890-3652-1 MSD Client Sample ID: BH-210 (11')

Matrix: Solid Prep Type: Soluble

928.1

mg/Kg

92

90 - 110

Analysis Batch: 42334

Chloride

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 699 250 961.0 105 90 - 110 20 mg/Kg

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Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 42487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42487/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 42514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Total/NA	Solid	5035	
890-3652-2	SW-75 (0-4')	Total/NA	Solid	5035	
890-3652-3	SW-75 (4-10')	Total/NA	Solid	5035	
890-3652-4	SW-76 (0-4.5')	Total/NA	Solid	5035	
890-3652-5	SW-79 (0-4')	Total/NA	Solid	5035	
890-3652-6	SW-83 (0-4')	Total/NA	Solid	5035	
MB 880-42514/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42514/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42514/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3662-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-3662-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 42596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Total/NA	Solid	8021B	42514
890-3652-2	SW-75 (0-4')	Total/NA	Solid	8021B	42514
890-3652-3	SW-75 (4-10')	Total/NA	Solid	8021B	42514
890-3652-4	SW-76 (0-4.5')	Total/NA	Solid	8021B	42514
890-3652-5	SW-79 (0-4')	Total/NA	Solid	8021B	42514
890-3652-6	SW-83 (0-4')	Total/NA	Solid	8021B	42514
MB 880-42487/5-A	Method Blank	Total/NA	Solid	8021B	42487
MB 880-42514/5-A	Method Blank	Total/NA	Solid	8021B	42514
LCS 880-42514/1-A	Lab Control Sample	Total/NA	Solid	8021B	42514
LCSD 880-42514/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42514
890-3662-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	42514
890-3662-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42514

Analysis Batch: 42651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Total/NA	Solid	Total BTEX	
890-3652-2	SW-75 (0-4')	Total/NA	Solid	Total BTEX	
890-3652-3	SW-75 (4-10')	Total/NA	Solid	Total BTEX	
890-3652-4	SW-76 (0-4.5')	Total/NA	Solid	Total BTEX	
890-3652-5	SW-79 (0-4')	Total/NA	Solid	Total BTEX	
890-3652-6	SW-83 (0-4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-4	SW-76 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-3652-5	SW-79 (0-4')	Total/NA	Solid	8015NM Prep	
890-3652-6	SW-83 (0-4')	Total/NA	Solid	8015NM Prep	
MB 880-41942/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41942/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3644-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 41942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 42002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Total/NA	Solid	8015NM Prep	
890-3652-2	SW-75 (0-4')	Total/NA	Solid	8015NM Prep	
890-3652-3	SW-75 (4-10')	Total/NA	Solid	8015NM Prep	
MB 880-42002/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42002/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3638-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3638-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42078

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-4	SW-76 (0-4.5')	Total/NA	Solid	8015B NM	41942
890-3652-5	SW-79 (0-4')	Total/NA	Solid	8015B NM	41942
890-3652-6	SW-83 (0-4')	Total/NA	Solid	8015B NM	41942
MB 880-41942/1-A	Method Blank	Total/NA	Solid	8015B NM	41942
LCS 880-41942/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41942
LCSD 880-41942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41942
890-3644-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	41942
890-3644-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41942

Analysis Batch: 42108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Total/NA	Solid	8015B NM	42002
890-3652-2	SW-75 (0-4')	Total/NA	Solid	8015B NM	42002
890-3652-3	SW-75 (4-10')	Total/NA	Solid	8015B NM	42002
MB 880-42002/1-A	Method Blank	Total/NA	Solid	8015B NM	42002
LCS 880-42002/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42002
LCSD 880-42002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42002
890-3638-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	42002
890-3638-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	42002

Analysis Batch: 42208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Total/NA	Solid	8015 NM	
890-3652-2	SW-75 (0-4')	Total/NA	Solid	8015 NM	
890-3652-3	SW-75 (4-10')	Total/NA	Solid	8015 NM	
890-3652-4	SW-76 (0-4.5')	Total/NA	Solid	8015 NM	
890-3652-5	SW-79 (0-4')	Total/NA	Solid	8015 NM	
890-3652-6	SW-83 (0-4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41931

Lab Sample ID 890-3652-1	Client Sample ID BH-210 (11')	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-3652-2	SW-75 (0-4')	Soluble	Solid	DI Leach	
890-3652-3	SW-75 (4-10')	Soluble	Solid	DI Leach	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3652-1

SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 41931 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-4	SW-76 (0-4.5')	Soluble	Solid	DI Leach	
890-3652-5	SW-79 (0-4')	Soluble	Solid	DI Leach	
890-3652-6	SW-83 (0-4')	Soluble	Solid	DI Leach	
MB 880-41931/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41931/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41931/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3652-1 MS	BH-210 (11')	Soluble	Solid	DI Leach	
890-3652-1 MSD	BH-210 (11')	Soluble	Solid	DI Leach	

Analysis Batch: 42334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Soluble	Solid	300.0	41931
890-3652-2	SW-75 (0-4')	Soluble	Solid	300.0	41931
890-3652-3	SW-75 (4-10')	Soluble	Solid	300.0	41931
890-3652-4	SW-76 (0-4.5')	Soluble	Solid	300.0	41931
890-3652-5	SW-79 (0-4')	Soluble	Solid	300.0	41931
890-3652-6	SW-83 (0-4')	Soluble	Solid	300.0	41931
MB 880-41931/1-A	Method Blank	Soluble	Solid	300.0	41931
LCS 880-41931/2-A	Lab Control Sample	Soluble	Solid	300.0	41931
LCSD 880-41931/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41931
890-3652-1 MS	BH-210 (11')	Soluble	Solid	300.0	41931
890-3652-1 MSD	BH-210 (11')	Soluble	Solid	300.0	41931

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Job ID: 890-3652-1 SDG: Lea County NM

Project/Site: Kaiser SWD

Client: Tetra Tech, Inc.

Lab Sample ID: 890-3652-1

Matrix: Solid

Client Sample ID: BH-210 (11')

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42514	12/22/22 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 02:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42651	12/27/22 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42208	12/19/22 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42002	12/16/22 09:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42108	12/18/22 19:01	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41931	12/15/22 14:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42334	12/23/22 21:57	CH	EET MID

Client Sample ID: SW-75 (0-4') Lab Sample ID: 890-3652-2

Date Collected: 12/14/22 12:00

Matrix: Solid

Date Received: 12/14/22 12:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42514	12/22/22 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 02:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42651	12/27/22 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42208	12/19/22 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42002	12/16/22 09:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42108	12/18/22 19:23	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41931	12/15/22 14:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42334	12/23/22 22:24	CH	EET MID

Client Sample ID: SW-75 (4-10')

Date Collected: 12/14/22 12:00

Date Received: 12/14/22 12:37

Lab Sample ID: 890-3652-3				
	Lab	Sample	ID: 890-3652	-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42514	12/22/22 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 02:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42651	12/27/22 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42208	12/19/22 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42002	12/16/22 09:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42108	12/18/22 19:46	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41931	12/15/22 14:24	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42334	12/23/22 22:32	CH	EET MID

Date Received: 12/14/22 12:37

Soluble	Leach	DI Leach		4.97 g	50 mL	41931	12/15/22 14:24	KS	EET MID
Soluble	Analysis	300.0	5	50 mL	50 mL	42334	12/23/22 22:32	CH	EET MID
Client Sample I		,					Lab Sam	ple ID	: 890-3652-4 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42514	12/22/22 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 04:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42651	12/27/22 09:32	AJ	EET MID

Eurofins Carlsbad

Released to Imaging: 9/1/2023 3:11:42 PM

Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-76 (0-4.5')

Lab Sample ID: 890-3652-4 Date Collected: 12/14/22 12:00 Matrix: Solid Date Received: 12/14/22 12:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42208	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 07:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41931	12/15/22 14:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42334	12/23/22 22:41	CH	EET MID

Client Sample ID: SW-79 (0-4') Lab Sample ID: 890-3652-5

Date Collected: 12/14/22 12:00 **Matrix: Solid**

Date Received: 12/14/22 12:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42514	12/22/22 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 04:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42651	12/27/22 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42208	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 07:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41931	12/15/22 14:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42334	12/23/22 22:50	CH	EET MID

Client Sample ID: SW-83 (0-4') Lab Sample ID: 890-3652-6

Date Collected: 12/14/22 12:00 **Matrix: Solid**

Date Received: 12/14/22 12:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42514	12/22/22 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 04:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42651	12/27/22 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42208	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 07:56	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41931	12/15/22 14:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42334	12/23/22 23:16	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: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report by	it the laboratory is not certific	ed by the governing authority. This list ma	v include analytes for y
the agency does not of	. ,	at the laboratory is not contin	ou by the governing additionty. This list the	ay include analytes for t
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the agency does not of	fer certification.	•	, , ,	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea 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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3652-1	BH-210 (11')	Solid	12/14/22 12:00	12/14/22 12:37
890-3652-2	SW-75 (0-4')	Solid	12/14/22 12:00	12/14/22 12:37
890-3652-3	SW-75 (4-10')	Solid	12/14/22 12:00	12/14/22 12:37
890-3652-4	SW-76 (0-4.5')	Solid	12/14/22 12:00	12/14/22 12:37
890-3652-5	SW-79 (0-4')	Solid	12/14/22 12:00	12/14/22 12:37
890-3652-6	SW-83 (0-4')	Solid	12/14/22 12:00	12/14/22 12:37

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Project Location: state)

voice to:

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Analysis Request of Chain of Custody Record eceiving Laboratory SW-76 (0-4.5') SW-83 (0-4") SW-79 (0-4') SW-75 (4-10') SW-75 (0-4') BH-210 (11') Lea County, NN **Eurofins Xenco** Kaiser SWD Permian Water Solutions Permian Water Solutions - Dusty McInturff fetra Tech, Inc. SAMPLE IDENTIFICATION 14/22 Time: ORIGINAL COPY 12/14/2022 12/14/2022 Project #: 12/14/2022 12/14/2022 Received by Sampler Signature 12/14/2022 12/14/2022 eceived by EAR: 2020 DATE SAMPLING Clair.Gonzales@tetratech.com TIME WATER Clair Gonzales MATRIX × × × SOIL 212C-MD-02230 Peyton Oliver 901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 Date: HCL PRESERVATIVE METHOD HNO₃ × ICE ec/h/lci None 890-3652 Chain of Custody 123 # CONTAINERS FILTERED (Y/N) **BTEX 8021B** BTEX 8260B LAB USE ONLY Sample Temperature Circle) HAND DELIVERED FEDEX UPS R 101 TPH TX1005 (Ext to C35) 0.00 TAM-007 $\times \times$ × X TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Circle or Specify Method Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles **ANALYSIS REQUEST** \boxtimes TCLP Semi Volatiles RUSH: Same Day Special Report Limits or TRRP Repor Rush Charges Authorized RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM Page PLM (Asbestos) 24 hr ×× $\times \times \times \times$ Chloride Sulfate TDS Chloride 48 hr General Water Chemistry (see attached list) Anion/Cation Balance 72 hr 으 Hold

LAB USE LAB#

Eurofins Carlsbad 1089 N Canal St Carlsbad, NM 88220 Phone. 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Environment Testing

Client Information (Sub Contract Lab)				Kramer, Jessica	, Jessic	മ്				 ;	ġ.	acon.,	g (40(3)			<u></u>	890-1064 1		
llent Contact: Shipping/Receiving	Phone			E-Mail: Jessica Kramer@et.eurofinsus.com	Krame	ar@et.	rofin	SUS CC	ă	7 (0)	State of Origin: New Mexico	Origin:				ار ي و	Page Page 1 of 1		\perp
ompany Eurofins Environment Testing South Centr				Z A	Accreditations Required (See note): NELAP - Texas	ns Requ	iired (Se	e note):		ļ					ı	g &	Job #:		
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H-210 (11") (890-3652-1)	12/14/22	Mountain		Solid	×	×	×	×							Partaes	-			
W-75 (0-4') (890-3652-2)	12/14/22	12 00 Mountain		Solid	×	×	×	×								#/			
W-75 (4-10') (890-3652-3)	12/14/22	12 00 Mountain		Solid	×	×	×	×			\dashv				857°° 38.	4			
W-76 (0-4 5') (890-3652-4)	12/14/22	12 00 Mountain		Solid	×	×	×	×				-				*/			
W-79 (0-4') (890-3652-5)	12/14/22	12 00 Mountain		Solid	×	×	×	×			-	\dashv			- y - 3	4			
W-83 (0-4') (890-3652-6)	12/14/22	12 00 Mountain		Solid	×	×	×	×				\dashv	1		EUR 1 1988		***************************************		
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ote: 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 boratory 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 altertion 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.	Testing South Centra ove for analysis/tests/ tral LLC attention im-	il LLC places the matrix being anal mediately If all re	ownership of m yzed the sample equested accred	ethod, analyte es must be shi litations are cu	& accrec oped bac rrent to d	ditation of the late refu	ompliar Eurofins	ice upor s Enviro igned C	our sul nment T hain of o	bcontra esting : Custody	ct labor South C	atories entral	This: LLC la	sample borator	shipm y or oth	ent is her ins	forwarded under c structions will be p Environment Test	hain-of-custody If the rovided. Any change ing South Central LI	C. st
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Eurofins Carlsbad

1089 N Canal St

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Chain of Custody Record

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Environment Testing

State Zip. TX, 79701 Kaiser SWD SW-79 (0-4') (890-3652-5) 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 aboratory 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 SW-83 (0-4') (890-3652-6) SW-76 (0-4 5') (890-3652-4) SW-75 (4-10') (890-3652-3) SW-75 (0-4') (890-3652-2) BH-210 (11') (890-3652-1) Sample Identification - Client ID (Lab ID) Midland Carlsbad, NM 88220 Phone. 575-988-3199 Fax: 575-988-3199 Deliverable Requested | II, III, IV Other (specify) 132-704-5440(Tel) 1211 W Florida Ave mpty Kit Relinquished by ossible Hazard Identification Client Information (Sub Contract Lab) elinquished by roject Name: linquished by: Custody Seals Intact. linquished by: rconfirmed urofins Environment Testing South Centre hipping/Receiving Custody Seal No Project #: 88001259 Date/Time Primary Deliverable Rank ₩ # PO# Due Date Requested 12/20/2022 Phone: Sampler TAT Requested (days): Sample Date 12/14/22 12/14/22 12/14/22 12/14/22 12/14/22 2/14/22 Date Mountain 12 00 Mountain 12 00 Mountain 12 00 Mountain 12 00 Mountain 12 00 Mountain Sample 1200 (C=comp, G=grab) Sample Type Preservation Code: Company Company Company Matrix Solid Solid Solid Solid Solid Solid Lab PM Jessica Kramer@et.eurofinsus.com E-Mail Kramer, Jessica Field Filtered Sample (Yes or No) NELAP - Texas Accreditations Required (See note): Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature(s) °C and Other Remarks Received by 8021B/6035FP_Calc BTEX × × × × × × × × × × × × Total_BTEX_GCV × × 8015MOD Cald × × × × × × × × × × 8016MOD_NM/8015NM_S_Prep Full TPH Analysis Requested × × × × × 300_ORGFM_28D/DI_LEACH Chloride × State of Origin: New Mexico Carrier Tracking No(s) Method of Shipment Date/Time Date/Time Date/Time 4 Total Number of containers A HCL
B NaOH
C Zn Acetate
D-Nitric Acid
E NaHSOA
F NaCHOH
G Amchor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA COC No: 890-1064 1 Preservation Codes 890-3652-1 Page 1 of 1 age Special Instructions/Note: M Hexane
N-None
O AsNao2
P Na2O4S
Q Na2SO3
R Na2SC33
R Na2SC33
R Na2SC04
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Y Tizma
Z - other (specify) Ver 06/08/202 Company Company Company Months

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3652-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

List Number: 1

Login Number: 3652

Creator: Stutzman, Amanda

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	

Released to Imaging: 9/1/2023 3:11:42 PM

Eurofins Carlsbad

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3652-1

SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

List Number: 2 Creator: Teel, Brianna

Login Number: 3652

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	True	

<6mm (1/4").

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

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 258924

CONDITIONS

Operator:	OGRID:
Permian Water Solutions, LLC	373626
PO Box 2106	Action Number:
Midland, TX 79702	258924
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	9/1/2023