State of New Mexico
Oil Conservation Division

Incident ID	NAPP2216550789
District RP	N/A
Facility ID	N/A
Application ID	N/A

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.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Gene Chquette Title: Sr. Environmental Specialist

Signature: Gene Choquette Date: 05/08/2023

email: gchoquette@chevron.com Telephone: 713-372-2100

OCD Only

Received by: Jocelyn Harimon Date: 05/10/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 10/2/2023

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

Gene Choquette
MCBU, Sr. Environmental Specialist

May 9, 2023

Mr. Nelson Velez
Environmental Specialist
EMNRD - Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

Re: Old Indian Draw CTB
2023 Remediation Summary and Soil Closure Request Report
Incident No. NAPP2216550789
Eddy County, New Mexico

Mr. Velez,

Please find enclosed for your files, copies of the following:

- Old Indian Draw CTB - May 2023 Remediation Summary and Soil Closure Request Report

The Report was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron North America Exploration and Production.

Please do not hesitate to call Scott Foord with Arcadis at 713.953.4853 or myself at 713.372.2100, should you have any questions.

Sincerely,

Gene Choquette

Encl. Old Indian Draw CTB Remediation Summary and Soil Closure Request Report

C.C. Amy Barnhill, Chevron/MCBU

Gene Choquette
MCBU Sr. Environmental Specialist
Chevron North America Exploration and Production
1400 Smith Street, Houston, TX 77002
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Mobile +1 832 776 5791
gchoquette@chevron.com

ARCADIS

Chevron U.S.A., Inc.

2023 Remediation Summary and Soil Closure Request Report

Old Indian Draw CTB

Incident ID# NAPP2216550789

May 2023

2023 Remediation Summary and Soil Closure Request Report

Old Indian Draw CTB
Incident ID# NAPP2216550789

May 2023

Prepared By:
Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620

Prepared For:
Mid-Continent Business Unit
Chevron North America Exploration and Production
1400 Smith Street, Room 40096
Houston, Tx 77002

Justin Nixon
Task Manager

Scott Foord, PG
Certified Project Manager

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Figure 2. Excavation Sidewall Soil Sample Locations
Figure 3. Excavation Base Soil Sample Locations

Appendices

Appendix A. Initial C-141 Form Incident # NAPP2216550789
Appendix B. Final C-141 Form Incident #NAPP2216550789
Appendix C. 2023 Soil Remediation Photographic Log
Appendix D. Laboratory Analytical Reports

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Remediation Summary and Soil Closure Request Report (Report), on behalf of Chevron U.S.A., Inc. (Chevron), for the release site known as the Old Indian Draw CTB (Site).

2 Project Summary

The Site is approximately 8 miles southeast from the City of Carlsbad, in Unit J, Section 18, Township 22 South, Range 28 East, Eddy County, New Mexico. As of April 7, 2023 Old Indian Draw CTB is an active tank battery. The Site is located on land owned by the United States Department of the Interior and administered by the Bureau of Land Management (BLM); the lease is currently operated by Chevron U.S.A., Inc. A Site Location Map is included as **Figure 1**.

On June 10, 2022, a leak in the bottom of a pump released approximately 6 barrels (bbls) of produced water at the Site. Upon discovery, 1 bbl of produced water was recovered. The release was contained within the well pad area. The Initial C-141 Form was submitted to the New Mexico Oil Conservation District (NMOCD) on June 14, 2022 and assigned Incident ID number NAPP2216550789. The Initial C-141 Form is included as **Appendix A** and the Final C-141 Form is included in **Appendix B.**

3 Pre-Remediation Soil Assessment

A pre-remediation soil assessment was performed at the Site in January and February 2023 by Arcadis to determine the horizontal and vertical extent of the release area. Prior to any intrusive activities, a New Mexico One Call notification, a private utility locate (ground penetrating radar), and daylighting of underground utility lines via hydro-excavation were conducted to clear the area and identify underground utilities.

Soil assessment activities included the installation of one surface soil sample (C-1) with a stainless-steel hand auger, followed by installation of a test trench (TP-1) near the center of the release area to approximately eight feet below ground surface (bgs) to vertically define the release area. Field screening was conducted during pre-remediation soil assessment activities for volatile organic compounds (VOCs) utilizing a photo-ionization detector (PID) and for chloride utilizing Hach® test strips.

The soil samples were collected in four-ounce jars provided by Eurofins Xenco Analytical Laboratory (Xenco) located in Midland, Texas, then placed on ice and shipped to Xenco following soil sample collection. Soil sample C-1 was analyzed for chloride by United States Environmental Protection Agency (USEPA) Method 300. Soil samples collected from the test trench (TP-1) were analyzed for chloride by USEPA Method 300; total petroleum hydrocarbons (TPH) by Method 8015M for gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO); and benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8021.

Analytical and field screening results from soil samples analyzed during the pre-remediation assessment activities (C-1 and TP-1) were evaluated prior to remediation activities to determine the horizontal and vertical extents of soil affected by the spill. Analytical results are shown in **Table 1**.

4 Closure Criteria for Soils Impacted by a Release

The NMOCD classifies the Site at the most stringent regulatory limits due to the depth to groundwater confirmed at approximately 46 feet bgs. Per Table I of New Mexico Administrative Code (NMAC) part 19.15.29.12, the following closure criteria applies to a site with depth to ground water less than 50 feet bgs:

Constituent	Limit (mg/kg)
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

5 Remediation Activities Summary

5.1 Soil Removal

Soil remediation activities were performed by Arcadis and ᵉTECH Environmental and Safety (ᵉTECH) from February 8 through February 21, 2023. PID readings, chloride field screening utilizing Hach® test strip results, and analytical results from the pre-remediation assessment activities were evaluated prior to and during remediation activities to determine the horizontal and vertical extent of soil affected by the spill.

The release area covered an approximate1,200 square foot area south of the tank battery. Excavation activities were conducted to a maximum depth of approximately 11 feet bgs within the release area. Approximately 440 cubic yards of impacted soil were excavated, stockpiled on-site adjacent to the release area on 20 mil plastic sheeting, and covered with 20 mil plastic sheeting during remediation activities prior to disposal activities. The limits of the excavation are presented on **Figure 2**.

The stockpiled soil was disposed offsite at the Lea Land Landfill facility located at Mile Marker 64, US Highway 62/180 East, Carlsbad, New Mexico as Class 2 non-hazardous material. ᵉTECH transported a total of 22 truckloads of soil directly to the landfill between February 22 through February 28, 2023. Copies of disposal manifests can be provided upon request. Photographic documentation of the excavation activities is attached in the **Appendix C**.

5.2 Excavation Confirmation Sampling Activities

Arcadis personnel conducted excavation confirmation soil sampling activities on February 8 through 21, 2023 for laboratory analysis. These activities included collection of a total of six composite base samples (B-1 through B-6) and eight composite sidewall samples (SW-1 through SW-8). All composite samples were collected at intervals to maintain an approximate 200 square foot sample space or less. Three composite sidewall samples (SW-5, SW-6 and SW-7) were determined to have exceedances at concentrations greater than the applicable NMAC standards specified within 19.15.29 for chloride or Total TPH. Additional soil was excavated from those areas and three additional composite sidewall samples (SW-5B, SW-6B and SW-7B) were collected for laboratory analyses.

The soil confirmation soil samples were collected in four-ounce jars provided by Xenco located in Midland, Texas, then placed on ice and shipped to Xenco to be analyzed for chloride by USEPA Method 300; TPH by USEPA Method 8015M for GRO, DRO, and ORO; and BTEX by USEPA Method 8021. Analytical results are shown in **Table 1**. Sidewall composite confirmation sample locations are depicted on **Figure 2** and excavation base composite confirmation sample locations are depicted on **Figure 3**. Laboratory analytical reports are included in **Appendix D**.

5.3 Chloride

All composite confirmation soil samples collected within the excavated area were below the NMAC reclamation limit of 600 mg/kg following remediation activities.

5.4 TPH

Total TPH concentrations were reported below the NMAC screening standard of 100 mg/kg at all composite confirmation soil sample locations following remediation activities.

5.5 BTEX

Benzene concentrations were reported below the NMAC standard of 10 mg/kg at all composite confirmation soil sample locations. BTEX concentrations were reported below the NMAC standard of 50 mg/kg at all composite confirmation soil sample locations.

6 Restoration, Reclamation, and Re-Vegetation Plan

Upon receiving laboratory analytical results from the excavation confirmation soil samples confirming impacted soil over the applicable restoration closure limits had been removed from the facility pad area, the excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near the original relative positions. The affected area was contoured and compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable.

7 Summary

Analytical results associated with remediation activities conducted in 2023 indicate that the horizontal and vertical extent of chloride, TPH, and BTEX impact in soil above NMAC Closure Criteria for a site with depth to groundwater less than 50 feet bgs have been delineated both horizontally and vertically, and impacted soil above the applicable NMAC Closure Criteria has been excavated from the release area.

8 Soil Closure Request

Remediation activities were conducted in accordance with the NMOCD regulatory guidelines stipulated in NMAC 19.15.29. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from

confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria in each of the submitted soil samples collected from the remediated area.

Based on laboratory analytical results and field activities conducted to date, no additional soil assessment or remediation activities are recommended at this time for the Site. Arcadis requests closure be granted to the Old Indian Draw CTB site for Incident ID number NAPP2216550789. The Final C-141 Form is included as **Appendix B.**

Tables

Table 1
2023 Soil Sample Analytical Results
Old Indian Draw CTB
Chevron
Eddy County, New Mexico

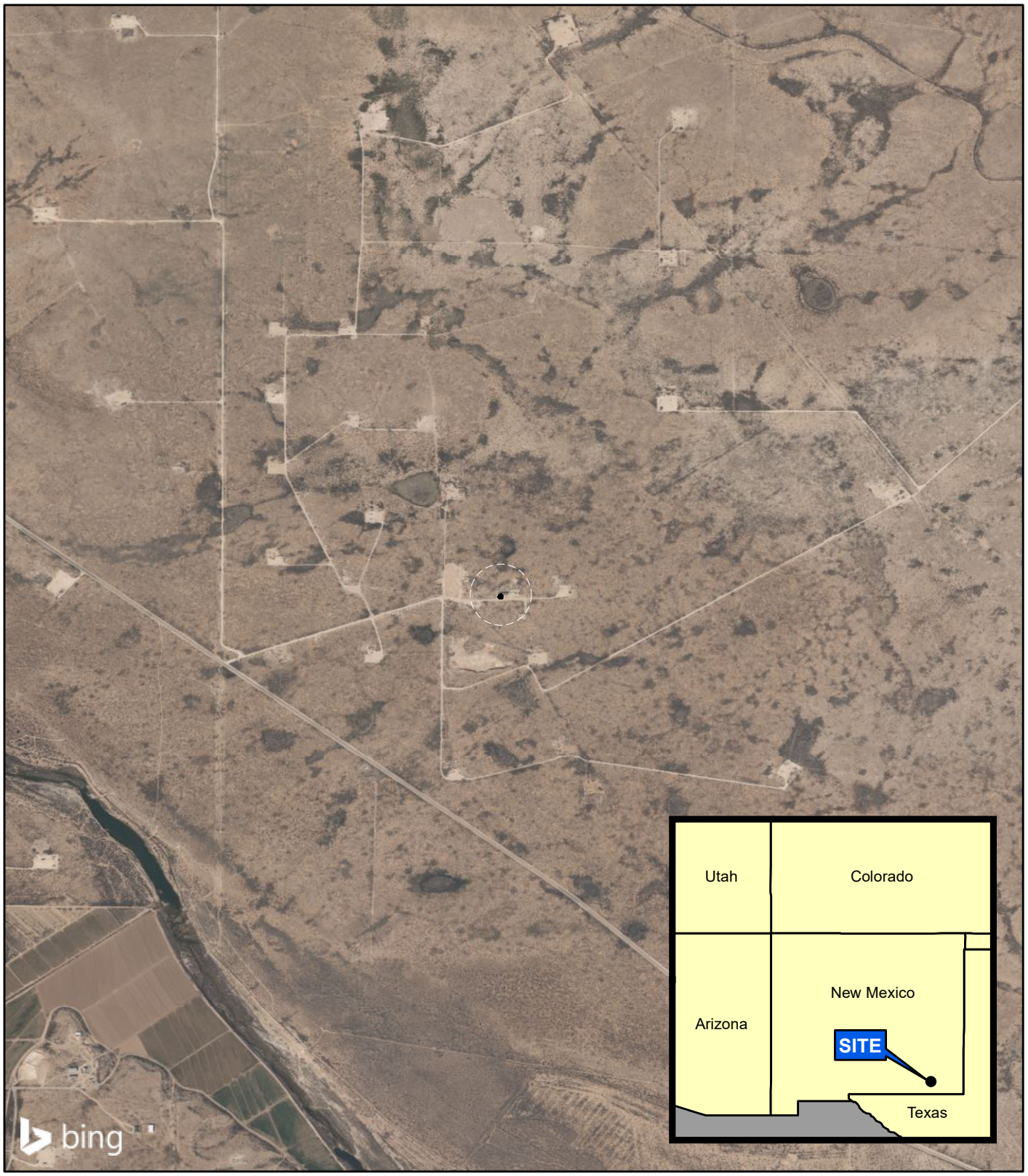
ARCADIS

Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX					TPH				Cl Method
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes, Total mg/kg	Total BTEX mg/kg	Gasoline Range Organics (GRO)-C6-C10 mg/kg	Diesel Range Organics (Over C10-C28) mg/kg	Oil Range Organics (Over C28-C36) mg/kg	Total TPH mg/kg	Chloride, Dissolved mg/kg
NMAC Standards					10	- -	- -	- -	50	- -	- -	- -	100	600
B-1	5	2/8/2023	B-1-5-6'-20230802	In-Situ	<0.00199	<0.00199	<0.00199	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	317
B-2	5	2/8/2023	B-2-5-6'-20230802	In-Situ	<0.00200	<0.00200	<0.00200	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	343
B-3	6	02/09/2023	B-3-5-6'-20230902	In-Situ	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	34.8J B	18.5J	<15.0	53.3	371
B-4	11	02/16/2023	B-4-5-11'-20231602	In-Situ	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	39.7J	18.6J	16.6J	74.9	179
B-5	6	02/09/2023	B-5-5-6'-20230902	In-Situ	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	33.7J B	18.6J	<14.9	52.3	434
B-6	11	02/16/2023	B-6-5-11'-20231602	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	35.6J	17.9J	<15.0	53.5	503
SW-1	4	02/07/2023	SW-1-5-0-4'-20230702	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	199
SW-2	6	02/09/2023	SW-2-5-6'-20230902	In-Situ	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	36.2J B	21.3J	<15.0	57.5	355
SW-3	6	02/09/2023	SW-3-5-6'-20230902	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	34.9J B	20.9J	<14.9	55.8	267
SW-4	6	02/09/2023	SW-4-5-6'-20230902	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	41.6J B	19.5J	<15.0	61.1	339
SW-5	6	02/16/2023	SW-5-5-0-6'-20231602	Removed	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	45.4J	15.1J	<15.0	60.5	**607**
SW-5B	6	02/21/2023	SW-5B-5-0-6'-20230221	In-Situ	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	<15.0	55.4	<15.0	55.4	576
SW-6	11	02/16/2023	SW-6-5-0-11'-20231602	Removed	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	42.1J	24.5J	40.9J	**108**	447
SW-6B	11	02/21/2023	SW-6B-5-0-11'-20230221	In-Situ	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	23.8J B	<15.0	<15.0	23.8J	255
SW-7	11	02/16/2023	SW-7-5-6-11'-20231602	Removed	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	20.6J	96.3	43.7J	**161**	265
SW-7B	11	02/21/2023	SW-7B-5-0-11'-20230221	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	33.4J B	<15.0	<15.0	33.4J	280
SW-8	11	02/16/2023	SW-8-5-6-11'-20231602	In-Situ	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	20.9J	<15.0	21.5J	42.4J	304
TP-1	6	02/07/2023	TP-1-5-6'- 20230702	In-Situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	167
TP-1	8	02/07/2023	TP-1-5-8'-20230702	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	306
C-1	0.5	1/31/2023	C-1-S-0-0.5'-20233101	In-Situ	NA	NA	NA	NA	NA	NA	NA	NA	NA	34

Legend:
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
B: Compound was found in the blank and the sample
Analytes exceeding New Mexico Adminstration Code Standards are indicated in **bold**
'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)
NA : Not Analyzed
mg/kg: Milligram per Kilogram
' : Indicates one foot
" : Indicated inches

Notes:
1. Chloride analyzed by EPA Method 300
2. TPH analyzed by EPA Method 8015 M
3. BTEX analyzed by EPA Method 8260B
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Figures



LEGEND:

Site Boundary

NOTES:
Datum: D_WGS_1984
Source: Bing Map
Site Location: 32.390462°, -104.123089°

0 2,000 4,000 Feet

GRAPHIC SCALE

MCBU
OLD INDIAN DRAW ~ CENTRAL TANK BATTERY
INCIDENT NUMBER: nAPP2216550789
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE 1

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
D:_Arcadis\Land Services\Chevron\Old_Indian_Draw\GIS\MXD_Confirmation\OID CTB_Fig1.mxd 3/10/2023 12:38:28 PM

NOTES:
Datum: D_WGS_1984
Source: Google Earth Map
Site Location: 32.390462°, -104.123089°

LEGEND:

- SIDEWALL SAMPLE LOCATION
- EXCAVATED AREA

0 10 20 Feet

GRAPHIC SCALE

MCBU
OLD INDIAN DRAW ~ CENTRAL TANK BATTERY
INCIDENT NUMBER: nAPP2216550789
EDDY COUNTY, NEW MEXICO

EXCAVATION SIDEWALL SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE
2

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
D:_Arcadis\Land Services\Chevron\Old_Indian_Draw\GIS\MXD_Confirmation\OID CTB_Fig2.mxd 3/10/2023 12:21:52 PM

NOTES:
Datum: D_WGS_1984
Source: Google Earth Map
Site Location: 32.390462°, -104.123089°

LEGEND:

- BASE SAMPLE LOCATION
- EXCAVATED AREA

0 10 20 Feet

GRAPHIC SCALE

MCBU
OLD INDIAN DRAW ~ CENTRAL TANK BATTERY
INCIDENT NUMBER: nAPP2216550789
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE 3

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
D:_Arcadis\Land Services\Chevron\Old_Indian_Draw\GIS\MXD_Confirmation\OID CTB_Fig3.mxd 3/10/2023 12:40:41 PM

Appendix A

Initial C-141 Form Incident # NAPP2216550789

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	nAPP2216550789
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron USA	OGRID: 4323
Contact Name: Amy Barnhill	Contact Telephone: 432-687-7108
Contact email: ABarnhill@chevron.com	Incident # *(assigned by OCD)*
Contact mailing address: 6301 Deauville Blvd Midland, Tx 79706	

Location of Release Source

Latitude 32.39033203 Longitude -104.12304246
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Old Indian Draw CTB	Site Type: Oil
Date Release Discovered: 6-10-22	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
J	18	22S	28E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 5.788	Volume Recovered (bbls) 1
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A leak in the bottom of the pump

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2216550789
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

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

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

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

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

Printed Name: Amy Barnhill Title: Water Specialist

Signature: Amy Barnhill Date: 6-14-22

email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2216550789
District RP	
Facility ID	
Application ID	

Spill Calculations:

Reported Volumes

Oil Released: bbl

Oil Recovered: bbl

Water Released: 5.788bbl

Water Recovered: 1bbl

Calculation Details

Area 1

Shape: Rectangle

Secondary Containment?: Yes

Standing Liquid Dimensions: 20 ft x 15 ft x 1 in

Total Volume: 5.788 bbl

Appendix B

Final C-141 Form Incident # NAPP2216550789

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	NAPP2216550789
District RP	N/A
Facility ID	N/A
Application ID	N/A

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	46 (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

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2216550789
District RP	N/A
Facility ID	N/A
Application ID	N/A

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.

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: Gene Chquette
Title: Sr. Environmental Specialist

Signature: Gene Choquette
Date: 05/08/2023

email: gchoquette@chevron.com
Telephone: 713-372-2100

OCD Only

Received by: Jocelyn Harimon
Date: 05/10/2023

Incident ID	NAPP2216550789
District RP	N/A
Facility ID	N/A
Application ID	N/A

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.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Gene Chquette Title: Sr. Environmental Specialist

Signature: Gene Choquette Date: 05/08/2023

email: gchoquette@chevron.com Telephone: 713-372-2100

OCD Only

Received by: Jocelyn Harimon Date: 05/10/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix C

2023 Soil Remediation Photographic Log

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw CTB	Eddy County, NM	NAPP2216550789

Photo No.	Date:
1	02/16/2023

Direction Photo Taken:

N

Description:

Facility location sign

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw CTB	Eddy County, NM	NAPP2216550789

Photo No.	Date:
2	02/16/2023

Direction Photo Taken:

SE

Description:

View of excavation area

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw CTB	Eddy County, NM	NAPP2216550789

Photo No.	Date:
3	02/16/2023

Direction Photo Taken:

NE

Description:

Additional view of excavation area

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw CTB	Eddy County, NM	NAPP2216550789

Photo No.	Date:
4	02/16/2023

Direction Photo Taken:

SE

Description:

View of excavation area following backfilling activities

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw CTB	Eddy County, NM	NAPP2216550789

Photo No.	Date:
5	02/16/2023

Direction Photo Taken:

NE

Description:

Additional view of backfilled area

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw CTB	Eddy County, NM	NAPP2216550789

Photo No.	Date:
6	02/16/2023

Direction Photo Taken:

NW

Description:

Additional view of backfilled area after equipment is back in place

Appendix D

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
ARCADIS U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 3/24/2023 9:43:21 AM Revision 1

JOB DESCRIPTION

Chevron Old Indian Draw CTB
SDG NUMBER 88001628

JOB NUMBER

890-4068-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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
3/24/2023 9:43:21 AM
Revision 1

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Laboratory Job ID: 890-4068-1
SDG: 88001628

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 890-4068-1
Project/Site: Chevron Old Indian Draw CTB SDG: 88001628

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Job ID: 890-4068-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4002-3

Receipt
The samples were received on 1/31/2023 4:12 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 2.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: L-11-5-0-6' 20230131 (890-4002-1), L-12-5-0-6' 20230131 (890-4002-2), L-13-5-0-6' 20230131 (890-4002-3), L-14-5-0-6' 20230131 (890-4002-4), L-15-5-0-6' 20230131 (890-4002-5), L-16-5-0-6' 20230131 (890-4002-6), L-17-5-0-6' 20230131 (890-4002-7), L-18-5-0-6' 20230131 (890-4002-8), L-19-5-0-6' 20230131 (890-4002-9), L-20-5-0-6' 20230131 (890-4002-10), L-21-5-0-6' 20230131 (890-4002-11), C-1--5-0-6' 20230131 (890-4002-12), L-1-5-0-6' 20230131 (890-4002-13), L-2-5-0-6' 20230131 (890-4002-14), L-3-5-0-6' 20230131 (890-4002-15), L-5-5-0-6' 20230131 (890-4002-16), L-6-5-0-6' 20230131 (890-4002-17), L-7-5-0-6' 20230131 (890-4002-18), L-8-5-0-6' 20230131 (890-4002-19), L-9-5-0-6' 20230131 (890-4002-20), L-10-5-0-6' 20230131 (890-4002-21), G-35-5-0-6' 20230131 (890-4002-22) and G-36-5-0-6' 20230131 (890-4002-23).

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Narrative

Job Narrative
890-4055-1

Receipt
The samples were received on 2/7/2023 4:33 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 9.0°C

GC VOA
Method 8021B: LCSD biased high. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

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: TP-1-5-6'- 20230702 (890-4055-1), TP-1-5-8'-20230702 (890-4055-2), SW-1-5-0-4-20230702 (890-4055-3), (890-4049-A-1-B), (890-4049-A-1-C MS) and (890-4049-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: LCS biased low. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported.(LCS 880-45928/2-A)

Method 8015MOD_NM: Surrogate compounds were inadvertently omitted during the extraction process for the following samples: TP-1-5-6'- 20230702 (890-4055-1), TP-1-5-8'-20230702 (890-4055-2) and SW-1-5-0-4-20230702 (890-4055-3). .

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.

Narrative

Job Narrative

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Job ID: 890-4068-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

890-4068-1

Receipt
The samples were received on 2/8/2023 4:01 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-1-5-6'-20230802 (890-4068-1) and b-2-5-6'-20230802 (890-4068-2).

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 samples were outside control limits: B-1-5-6'-20230802 (890-4068-1) and b-2-5-6'-20230802 (890-4068-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-46071 and analytical batch 880-46062 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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46071 and analytical batch 880-46062 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-24604-1

Receipt
The samples were received on 2/10/2023 4:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-2-5-6'-20230902 (880-24604-1), SW-3-5-6'-20230902 (880-24604-2), SW-4-5-6'-20230902 (880-24604-3), B-5-5-6'-20230902 (880-24604-4) and B-3-5-6'-20230902 (880-24604-5).

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 method blank for preparation batch 880-46070 and analytical batch 880-46062 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.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 890-4068-1
Project/Site: Chevron Old Indian Draw CTB SDG: 88001628

Job ID: 890-4068-1 (Continued)

Laboratory: Eurofins Midland (Continued)

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Narrative

Job Narrative
880-24885-1

REVISION

The report being provided is a revision of the original report sent on 2/20/2023. The report (revision 1) is being revised due to Revised report to correct client sample ID transcription error..

Report revision history

Receipt
The samples were received on 2/17/2023 1:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C

Receipt Exceptions
The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar.

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-46605 and analytical batch 880-46568 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.

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.

Narrative

Job Narrative
880-25049-1

Receipt
The samples were received on 2/22/2023 9:39 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 0.3°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-5B-5-0-6'-20230221 (880-25049-1), SW-6B-5-0-11'-20230221 (880-25049-2) and SW-7B-5-0-11'-20230221 (880-25049-3).

GC VOA
Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46948 and analytical batch 880-46925 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Job ID: 890-4068-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-5B-5-0-6'-20230221 (880-25049-1), SW-6B-5-0-11'-20230221 (880-25049-2), SW-7B-5-0-11'-20230221 (880-25049-3), (CCV 880-46925/20), (CCV 880-46925/33), (CCV 880-46925/51), (LCS 880-46948/1-A), (LCSD 880-46948/2-A), (880-25049-A-1-J MS) and (880-25049-A-1-K MSD). 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 method blank for preparation batch 880-46937 and analytical batch 880-46917 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.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-2-5-6'-20230902

Lab Sample ID: 880-24604-1
Date Collected: 02/09/23 10:50
Matrix: Solid
Date Received: 02/10/23 16:53

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		02/13/23 08:16	02/13/23 12:02	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		02/13/23 08:16	02/13/23 12:02	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		02/13/23 08:16	02/13/23 12:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		02/13/23 08:16	02/13/23 12:02	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		02/13/23 08:16	02/13/23 12:02	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		02/13/23 08:16	02/13/23 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*02/13/23 08:16*	*02/13/23 12:02*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/13/23 08:16*	*02/13/23 12:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg			02/14/23 11:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.5**		50.0	15.0	mg/Kg			02/14/23 10:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**36.2**	**J B**	50.0	15.0	mg/Kg		02/12/23 09:06	02/12/23 16:17	1
Diesel Range Organics (Over C10-C28)	**21.3**	**J**	50.0	15.0	mg/Kg		02/12/23 09:06	02/12/23 16:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/12/23 09:06	02/12/23 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*02/12/23 09:06*	*02/12/23 16:17*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*02/12/23 09:06*	*02/12/23 16:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**355**		5.04	0.398	mg/Kg			02/11/23 03:52	1

Client Sample ID: SW-3-5-6'-20230902

Lab Sample ID: 880-24604-2
Date Collected: 02/09/23 12:00
Matrix: Solid
Date Received: 02/10/23 16:53

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		02/13/23 08:16	02/13/23 12:23	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		02/13/23 08:16	02/13/23 12:23	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		02/13/23 08:16	02/13/23 12:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		02/13/23 08:16	02/13/23 12:23	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		02/13/23 08:16	02/13/23 12:23	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		02/13/23 08:16	02/13/23 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*02/13/23 08:16*	*02/13/23 12:23*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/13/23 08:16*	*02/13/23 12:23*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-3-5-6'-20230902

Lab Sample ID: 880-24604-2
Matrix: Solid
Date Collected: 02/09/23 12:00
Date Received: 02/10/23 16:53

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	0.00101	mg/Kg			02/14/23 11:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.8**		49.8	14.9	mg/Kg			02/14/23 10:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**34.9**	**J B**	49.8	14.9	mg/Kg		02/12/23 09:06	02/12/23 16:38	1
Diesel Range Organics (Over C10-C28)	**20.9**	**J**	49.8	14.9	mg/Kg		02/12/23 09:06	02/12/23 16:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		02/12/23 09:06	02/12/23 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*02/12/23 09:06*	*02/12/23 16:38*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*02/12/23 09:06*	*02/12/23 16:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**267**		5.00	0.395	mg/Kg			02/11/23 03:59	1

Client Sample ID: SW-4-5-6'-20230902

Lab Sample ID: 880-24604-3
Matrix: Solid
Date Collected: 02/09/23 12:10
Date Received: 02/10/23 16:53

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		02/13/23 08:16	02/13/23 12:43	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		02/13/23 08:16	02/13/23 12:43	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		02/13/23 08:16	02/13/23 12:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		02/13/23 08:16	02/13/23 12:43	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		02/13/23 08:16	02/13/23 12:43	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		02/13/23 08:16	02/13/23 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*02/13/23 08:16*	*02/13/23 12:43*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/13/23 08:16*	*02/13/23 12:43*	*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	0.00101	mg/Kg			02/14/23 11:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**61.1**		49.9	15.0	mg/Kg			02/14/23 10:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**41.6**	**J B**	49.9	15.0	mg/Kg		02/12/23 09:06	02/12/23 17:21	1
Diesel Range Organics (Over C10-C28)	**19.5**	**J**	49.9	15.0	mg/Kg		02/12/23 09:06	02/12/23 17:21	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-4-5-6'-20230902

Lab Sample ID: 880-24604-3
Matrix: Solid
Date Collected: 02/09/23 12:10
Date Received: 02/10/23 16:53

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		02/12/23 09:06	02/12/23 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*56*	*S1-*	*70 - 130*	*02/12/23 09:06*	*02/12/23 17:21*	*1*
o-Terphenyl	*57*	*S1-*	*70 - 130*	*02/12/23 09:06*	*02/12/23 17:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**339**		4.99	0.394	mg/Kg			02/11/23 04:05	1

Client Sample ID: B-5-5-6'-20230902

Lab Sample ID: 880-24604-4
Matrix: Solid
Date Collected: 02/09/23 14:20
Date Received: 02/10/23 16:53

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		02/13/23 08:16	02/13/23 13:04	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		02/13/23 08:16	02/13/23 13:04	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		02/13/23 08:16	02/13/23 13:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		02/13/23 08:16	02/13/23 13:04	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		02/13/23 08:16	02/13/23 13:04	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		02/13/23 08:16	02/13/23 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*02/13/23 08:16*	*02/13/23 13:04*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/13/23 08:16*	*02/13/23 13:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			02/14/23 11:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**52.3**		49.8	14.9	mg/Kg			02/14/23 10:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**33.7**	**J B**	49.8	14.9	mg/Kg		02/12/23 09:06	02/12/23 17:42	1
Diesel Range Organics (Over C10-C28)	**18.6**	**J**	49.8	14.9	mg/Kg		02/12/23 09:06	02/12/23 17:42	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		02/12/23 09:06	02/12/23 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*55*	*S1-*	*70 - 130*	*02/12/23 09:06*	*02/12/23 17:42*	*1*
o-Terphenyl	*57*	*S1-*	*70 - 130*	*02/12/23 09:06*	*02/12/23 17:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**434**		4.96	0.392	mg/Kg			02/11/23 04:11	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: B-3-5-6'-20230902

Lab Sample ID: 880-24604-5
Matrix: Solid
Date Collected: 02/09/23 14:30
Date Received: 02/10/23 16:53

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		02/13/23 08:16	02/13/23 13:24	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		02/13/23 08:16	02/13/23 13:24	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		02/13/23 08:16	02/13/23 13:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		02/13/23 08:16	02/13/23 13:24	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		02/13/23 08:16	02/13/23 13:24	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		02/13/23 08:16	02/13/23 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*02/13/23 08:16*	*02/13/23 13:24*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*02/13/23 08:16*	*02/13/23 13:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			02/14/23 11:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.3**		49.9	15.0	mg/Kg			02/14/23 10:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**34.8**	**J B**	49.9	15.0	mg/Kg		02/12/23 09:06	02/12/23 18:04	1
Diesel Range Organics (Over C10-C28)	**18.5**	**J**	49.9	15.0	mg/Kg		02/12/23 09:06	02/12/23 18:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		02/12/23 09:06	02/12/23 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*58*	*S1-*	*70 - 130*	*02/12/23 09:06*	*02/12/23 18:04*	*1*
o-Terphenyl	*55*	*S1-*	*70 - 130*	*02/12/23 09:06*	*02/12/23 18:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**371**		4.97	0.393	mg/Kg			02/11/23 04:17	1

Client Sample ID: SW-6-5-0-11'-20231602

Lab Sample ID: 880-24885-1
Matrix: Solid
Date Collected: 02/16/23 10:20
Date Received: 02/17/23 13:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		02/17/23 14:29	02/18/23 01:31	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		02/17/23 14:29	02/18/23 01:31	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		02/17/23 14:29	02/18/23 01:31	1
m-Xylene & p-Xylene	<0.00403	U *+	0.00403	0.00102	mg/Kg		02/17/23 14:29	02/18/23 01:31	1
o-Xylene	<0.00202	U *+	0.00202	0.000347	mg/Kg		02/17/23 14:29	02/18/23 01:31	1
Xylenes, Total	<0.00403	U *+	0.00403	0.00102	mg/Kg		02/17/23 14:29	02/18/23 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*02/17/23 14:29*	*02/18/23 01:31*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*02/17/23 14:29*	*02/18/23 01:31*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-6-5-0-11'-20231602

Lab Sample ID: 880-24885-1
Matrix: Solid
Date Collected: 02/16/23 10:20
Date Received: 02/17/23 13:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg			02/20/23 14:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**108**		49.9	15.0	mg/Kg			02/20/23 15:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**42.1**	**J**	49.9	15.0	mg/Kg		02/17/23 17:15	02/18/23 12:39	1
Diesel Range Organics (Over C10-C28)	**24.5**	**J**	49.9	15.0	mg/Kg		02/17/23 17:15	02/18/23 12:39	1
Oil Range Organics (Over C28-C36)	**40.9**	**J**	49.9	15.0	mg/Kg		02/17/23 17:15	02/18/23 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*02/17/23 17:15*	*02/18/23 12:39*	*1*
o-Terphenyl	*118*		*70 - 130*	*02/17/23 17:15*	*02/18/23 12:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**447**		4.98	0.393	mg/Kg			02/17/23 16:33	1

Client Sample ID: SW-7-5-6-11'-20231602

Lab Sample ID: 880-24885-2
Matrix: Solid
Date Collected: 02/16/23 10:30
Date Received: 02/17/23 13:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		02/17/23 14:29	02/18/23 01:52	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		02/17/23 14:29	02/18/23 01:52	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		02/17/23 14:29	02/18/23 01:52	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	0.00100	mg/Kg		02/17/23 14:29	02/18/23 01:52	1
o-Xylene	<0.00199	U *+	0.00199	0.000342	mg/Kg		02/17/23 14:29	02/18/23 01:52	1
Xylenes, Total	<0.00398	U *+	0.00398	0.00100	mg/Kg		02/17/23 14:29	02/18/23 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*02/17/23 14:29*	*02/18/23 01:52*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*02/17/23 14:29*	*02/18/23 01:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			02/20/23 14:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**161**		49.9	15.0	mg/Kg			02/20/23 15:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**20.6**	**J**	49.9	15.0	mg/Kg		02/17/23 17:15	02/18/23 13:01	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-7-5-6-11'-20231602

Lab Sample ID: 880-24885-2
Matrix: Solid
Date Collected: 02/16/23 10:30
Date Received: 02/17/23 13:25

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	96.3		49.9	15.0	mg/Kg		02/17/23 17:15	02/18/23 13:01	1
Oil Range Organics (Over C28-C36)	43.7	J	49.9	15.0	mg/Kg		02/17/23 17:15	02/18/23 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*02/17/23 17:15*	*02/18/23 13:01*	*1*
o-Terphenyl	*111*		*70 - 130*	*02/17/23 17:15*	*02/18/23 13:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	265		5.05	0.399	mg/Kg			02/17/23 16:51	1

Client Sample ID: SW-8-5-6-11'-20231602

Lab Sample ID: 880-24885-3
Matrix: Solid
Date Collected: 02/16/23 10:40
Date Received: 02/17/23 13:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		02/17/23 14:29	02/18/23 02:12	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		02/17/23 14:29	02/18/23 02:12	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		02/17/23 14:29	02/18/23 02:12	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	0.00100	mg/Kg		02/17/23 14:29	02/18/23 02:12	1
o-Xylene	<0.00198	U *+	0.00198	0.000341	mg/Kg		02/17/23 14:29	02/18/23 02:12	1
Xylenes, Total	<0.00396	U *+	0.00396	0.00100	mg/Kg		02/17/23 14:29	02/18/23 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/17/23 14:29*	*02/18/23 02:12*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*02/17/23 14:29*	*02/18/23 02:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg			02/20/23 14:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	42.4	J	49.9	15.0	mg/Kg			02/20/23 15:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.9	J	49.9	15.0	mg/Kg		02/17/23 17:15	02/18/23 13:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		02/17/23 17:15	02/18/23 13:22	1
Oil Range Organics (Over C28-C36)	21.5	J	49.9	15.0	mg/Kg		02/17/23 17:15	02/18/23 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*02/17/23 17:15*	*02/18/23 13:22*	*1*
o-Terphenyl	*114*		*70 - 130*	*02/17/23 17:15*	*02/18/23 13:22*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-8-5-6-11'-20231602

Lab Sample ID: 880-24885-3
Matrix: Solid
Date Collected: 02/16/23 10:40
Date Received: 02/17/23 13:25

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**304**		4.96	0.392	mg/Kg			02/17/23 16:57	1

Client Sample ID: B-4-5-11'-20231602

Lab Sample ID: 880-24885-4
Matrix: Solid
Date Collected: 02/16/23 10:50
Date Received: 02/17/23 13:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		02/17/23 14:29	02/18/23 02:33	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		02/17/23 14:29	02/18/23 02:33	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		02/17/23 14:29	02/18/23 02:33	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	0.00101	mg/Kg		02/17/23 14:29	02/18/23 02:33	1
o-Xylene	<0.00199	U *+	0.00199	0.000343	mg/Kg		02/17/23 14:29	02/18/23 02:33	1
Xylenes, Total	<0.00398	U *+	0.00398	0.00101	mg/Kg		02/17/23 14:29	02/18/23 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/17/23 14:29*	*02/18/23 02:33*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*02/17/23 14:29*	*02/18/23 02:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			02/20/23 14:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**74.9**		49.8	14.9	mg/Kg			02/20/23 15:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**39.7**	**J**	49.8	14.9	mg/Kg		02/17/23 17:15	02/18/23 13:44	1
Diesel Range Organics (Over C10-C28)	**18.6**	**J**	49.8	14.9	mg/Kg		02/17/23 17:15	02/18/23 13:44	1
Oil Range Organics (Over C28-C36)	**16.6**	**J**	49.8	14.9	mg/Kg		02/17/23 17:15	02/18/23 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*02/17/23 17:15*	*02/18/23 13:44*	*1*
o-Terphenyl	*92*		*70 - 130*	*02/17/23 17:15*	*02/18/23 13:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**179**		5.00	0.395	mg/Kg			02/17/23 17:16	1

Client Sample ID: B-6-5-11'-20231602

Lab Sample ID: 880-24885-5
Matrix: Solid
Date Collected: 02/16/23 11:00
Date Received: 02/17/23 13:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		02/17/23 14:29	02/18/23 02:53	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		02/17/23 14:29	02/18/23 02:53	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		02/17/23 14:29	02/18/23 02:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: B-6-5-11'-20231602

Lab Sample ID: 880-24885-5
Matrix: Solid
Date Collected: 02/16/23 11:00
Date Received: 02/17/23 13:25

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	0.00101	mg/Kg		02/17/23 14:29	02/18/23 02:53	1
o-Xylene	<0.00200	U *+	0.00200	0.000345	mg/Kg		02/17/23 14:29	02/18/23 02:53	1
Xylenes, Total	<0.00401	U *+	0.00401	0.00101	mg/Kg		02/17/23 14:29	02/18/23 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*02/17/23 14:29*	*02/18/23 02:53*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*02/17/23 14:29*	*02/18/23 02:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			02/20/23 14:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.5**		50.0	15.0	mg/Kg			02/20/23 15:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**35.6**	**J**	50.0	15.0	mg/Kg		02/17/23 17:15	02/18/23 14:06	1
Diesel Range Organics (Over C10-C28)	**17.9**	**J**	50.0	15.0	mg/Kg		02/17/23 17:15	02/18/23 14:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/17/23 17:15	02/18/23 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/17/23 17:15*	*02/18/23 14:06*	*1*
o-Terphenyl	*98*		*70 - 130*	*02/17/23 17:15*	*02/18/23 14:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**503**		4.97	0.393	mg/Kg			02/17/23 17:22	1

Client Sample ID: SW-5-5-0-6'-20231602

Lab Sample ID: 880-24885-6
Matrix: Solid
Date Collected: 02/16/23 15:15
Date Received: 02/17/23 13:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		02/17/23 14:29	02/18/23 03:14	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		02/17/23 14:29	02/18/23 03:14	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		02/17/23 14:29	02/18/23 03:14	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	0.00101	mg/Kg		02/17/23 14:29	02/18/23 03:14	1
o-Xylene	<0.00200	U *+	0.00200	0.000343	mg/Kg		02/17/23 14:29	02/18/23 03:14	1
Xylenes, Total	<0.00399	U *+	0.00399	0.00101	mg/Kg		02/17/23 14:29	02/18/23 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/17/23 14:29*	*02/18/23 03:14*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/17/23 14:29*	*02/18/23 03:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			02/20/23 14:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-5-5-0-6'-20231602

Lab Sample ID: 880-24885-6
Matrix: Solid
Date Collected: 02/16/23 15:15
Date Received: 02/17/23 13:25

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**60.5**		50.0	15.0	mg/Kg			02/20/23 15:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**45.4**	**J**	50.0	15.0	mg/Kg		02/17/23 17:15	02/18/23 14:28	1
Diesel Range Organics (Over C10-C28)	**15.1**	**J**	50.0	15.0	mg/Kg		02/17/23 17:15	02/18/23 14:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/17/23 17:15	02/18/23 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*02/17/23 17:15*	*02/18/23 14:28*	*1*
o-Terphenyl	*99*		*70 - 130*	*02/17/23 17:15*	*02/18/23 14:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**607**		4.95	0.391	mg/Kg			02/17/23 17:28	1

Client Sample ID: SW-5B-5-0-6'-20230221

Lab Sample ID: 880-25049-1
Matrix: Solid
Date Collected: 02/21/23 16:00
Date Received: 02/22/23 09:39

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198	0.000381	mg/Kg		02/22/23 14:24	02/23/23 01:38	1
Toluene	<0.00198	U *+	0.00198	0.000451	mg/Kg		02/22/23 14:24	02/23/23 01:38	1
Ethylbenzene	<0.00198	U *+	0.00198	0.000559	mg/Kg		02/22/23 14:24	02/23/23 01:38	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	0.00100	mg/Kg		02/22/23 14:24	02/23/23 01:38	1
o-Xylene	<0.00198	U *+	0.00198	0.000341	mg/Kg		02/22/23 14:24	02/23/23 01:38	1
Xylenes, Total	<0.00396	U *+	0.00396	0.00100	mg/Kg		02/22/23 14:24	02/23/23 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*191*	*S1+*	*70 - 130*	*02/22/23 14:24*	*02/23/23 01:38*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*02/22/23 14:24*	*02/23/23 01:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.4**		50.0	15.0	mg/Kg			02/23/23 12:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		02/22/23 10:31	02/22/23 12:17	1
Diesel Range Organics (Over C10-C28)	**55.4**		50.0	15.0	mg/Kg		02/22/23 10:31	02/22/23 12:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/22/23 10:31	02/22/23 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*02/22/23 10:31*	*02/22/23 12:17*	*1*

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-5B-5-0-6'-20230221

Lab Sample ID: 880-25049-1
Matrix: Solid
Date Collected: 02/21/23 16:00
Date Received: 02/22/23 09:39

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*70 - 130*	*02/22/23 10:31*	*02/22/23 12:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**576**		4.97	0.393	mg/Kg			02/22/23 23:27	1

Client Sample ID: SW-6B-5-0-11'-20230221

Lab Sample ID: 880-25049-2
Matrix: Solid
Date Collected: 02/21/23 12:00
Date Received: 02/22/23 09:39

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	0.000384	mg/Kg		02/22/23 14:24	02/23/23 02:04	1
Toluene	<0.00200	U *+	0.00200	0.000455	mg/Kg		02/22/23 14:24	02/23/23 02:04	1
Ethylbenzene	<0.00200	U *+	0.00200	0.000564	mg/Kg		02/22/23 14:24	02/23/23 02:04	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	0.00101	mg/Kg		02/22/23 14:24	02/23/23 02:04	1
o-Xylene	<0.00200	U *+	0.00200	0.000343	mg/Kg		02/22/23 14:24	02/23/23 02:04	1
Xylenes, Total	<0.00399	U *+	0.00399	0.00101	mg/Kg		02/22/23 14:24	02/23/23 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*198*	*S1+*	*70 - 130*	*02/22/23 14:24*	*02/23/23 02:04*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*02/22/23 14:24*	*02/23/23 02:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**23.8**	**J**	50.0	15.0	mg/Kg			02/23/23 11:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**23.8**	**J B**	50.0	15.0	mg/Kg		02/22/23 10:27	02/22/23 13:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		02/22/23 10:27	02/22/23 13:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/22/23 10:27	02/22/23 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*02/22/23 10:27*	*02/22/23 13:22*	*1*
o-Terphenyl	*98*		*70 - 130*	*02/22/23 10:27*	*02/22/23 13:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**255**		5.00	0.395	mg/Kg			02/22/23 23:32	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-7B-5-0-11'-20230221

Lab Sample ID: 880-25049-3
Matrix: Solid
Date Collected: 02/21/23 12:10
Date Received: 02/22/23 09:39

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201	0.000387	mg/Kg		02/22/23 14:24	02/23/23 02:30	1
Toluene	<0.00201	U *+	0.00201	0.000458	mg/Kg		02/22/23 14:24	02/23/23 02:30	1
Ethylbenzene	<0.00201	U *+	0.00201	0.000567	mg/Kg		02/22/23 14:24	02/23/23 02:30	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	0.00101	mg/Kg		02/22/23 14:24	02/23/23 02:30	1
o-Xylene	<0.00201	U *+	0.00201	0.000345	mg/Kg		02/22/23 14:24	02/23/23 02:30	1
Xylenes, Total	<0.00402	U *+	0.00402	0.00101	mg/Kg		02/22/23 14:24	02/23/23 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*226*	*S1+*	*70 - 130*	*02/22/23 14:24*	*02/23/23 02:30*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*02/22/23 14:24*	*02/23/23 02:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**33.4**	**J**	49.9	15.0	mg/Kg			02/23/23 11:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**33.4**	**J B**	49.9	15.0	mg/Kg		02/22/23 10:27	02/22/23 13:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		02/22/23 10:27	02/22/23 13:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		02/22/23 10:27	02/22/23 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/22/23 10:27*	*02/22/23 13:44*	*1*
o-Terphenyl	*85*		*70 - 130*	*02/22/23 10:27*	*02/22/23 13:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		5.00	0.395	mg/Kg			02/22/23 23:37	1

Client Sample ID: C-1--5-0-6' 20230131

Lab Sample ID: 890-4002-12
Matrix: Solid
Date Collected: 01/30/23 14:30
Date Received: 01/31/23 16:12

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.0**		5.05		mg/Kg			02/03/23 16:47	1

Client Sample ID: TP-1-5-6'- 20230702

Lab Sample ID: 890-4055-1
Matrix: Solid
Date Collected: 02/07/23 14:30
Date Received: 02/07/23 16:33
Sample Depth: 6

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198		mg/Kg		02/14/23 11:24	02/15/23 11:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/14/23 11:24	02/15/23 11:57	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: TP-1-5-6'- 20230702

Lab Sample ID: 890-4055-1
Matrix: Solid
Date Collected: 02/07/23 14:30
Date Received: 02/07/23 16:33
Sample Depth: 6

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/14/23 11:24	02/15/23 11:57	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396		mg/Kg		02/14/23 11:24	02/15/23 11:57	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		02/14/23 11:24	02/15/23 11:57	1
Xylenes, Total	<0.00396	U *+	0.00396		mg/Kg		02/14/23 11:24	02/15/23 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*02/14/23 11:24*	*02/15/23 11:57*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*02/14/23 11:24*	*02/15/23 11:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/15/23 14:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		02/09/23 17:25	02/12/23 19:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U *- *1	49.9		mg/Kg		02/09/23 17:25	02/12/23 19:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/23 17:25	02/12/23 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*3*	*S1-*	*70 - 130*	*02/09/23 17:25*	*02/12/23 19:31*	*1*
o-Terphenyl	*0.7*	*S1-*	*70 - 130*	*02/09/23 17:25*	*02/12/23 19:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**167**		4.95		mg/Kg			02/09/23 15:05	1

Client Sample ID: TP-1-5-8'-20230702

Lab Sample ID: 890-4055-2
Matrix: Solid
Date Collected: 02/07/23 15:00
Date Received: 02/07/23 16:33
Sample Depth: 8

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		02/14/23 11:24	02/15/23 12:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:24	02/15/23 12:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:24	02/15/23 12:17	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		02/14/23 11:24	02/15/23 12:17	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		02/14/23 11:24	02/15/23 12:17	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		02/14/23 11:24	02/15/23 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*02/14/23 11:24*	*02/15/23 12:17*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/14/23 11:24*	*02/15/23 12:17*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: TP-1-5-8'-20230702

Lab Sample ID: 890-4055-2
Matrix: Solid
Date Collected: 02/07/23 15:00
Date Received: 02/07/23 16:33
Sample Depth: 8

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/15/23 14:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		02/09/23 17:25	02/12/23 19:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U *- *1	49.9		mg/Kg		02/09/23 17:25	02/12/23 19:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/23 17:25	02/12/23 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*1*	*S1-*	*70 - 130*	*02/09/23 17:25*	*02/12/23 19:53*	*1*
o-Terphenyl	*0.7*	*S1-*	*70 - 130*	*02/09/23 17:25*	*02/12/23 19:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**306**		4.99		mg/Kg			02/09/23 15:19	1

Client Sample ID: SW-1-5-0-4-20230702

Lab Sample ID: 890-4055-3
Matrix: Solid
Date Collected: 02/07/23 15:30
Date Received: 02/07/23 16:33
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		02/14/23 11:24	02/15/23 12:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/14/23 11:24	02/15/23 12:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/14/23 11:24	02/15/23 12:38	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		02/14/23 11:24	02/15/23 12:38	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		02/14/23 11:24	02/15/23 12:38	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		02/14/23 11:24	02/15/23 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*02/14/23 11:24*	*02/15/23 12:38*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*02/14/23 11:24*	*02/15/23 12:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/15/23 14:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		02/09/23 17:25	02/12/23 20:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-1-5-0-4-20230702

Lab Sample ID: 890-4055-3
Matrix: Solid
Date Collected: 02/07/23 15:30
Date Received: 02/07/23 16:33
Sample Depth: 4

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	50.0		mg/Kg		02/09/23 17:25	02/12/23 20:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/23 17:25	02/12/23 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*0.07*	*S1-*	*70 - 130*	*02/09/23 17:25*	*02/12/23 20:15*	*1*
o-Terphenyl	*0.6*	*S1-*	*70 - 130*	*02/09/23 17:25*	*02/12/23 20:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**199**		4.97		mg/Kg			02/09/23 15:42	1

Client Sample ID: B-1-5-6'-20230802

Lab Sample ID: 890-4068-1
Matrix: Solid
Date Collected: 02/08/23 10:00
Date Received: 02/08/23 16:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:23	02/10/23 23:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:23	02/10/23 23:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:23	02/10/23 23:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 10:23	02/10/23 23:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:23	02/10/23 23:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 10:23	02/10/23 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*02/10/23 10:23*	*02/10/23 23:27*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*02/10/23 10:23*	*02/10/23 23:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 19:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/12/23 09:13	02/13/23 01:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/12/23 09:13	02/13/23 01:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/12/23 09:13	02/13/23 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*57*	*S1-*	*70 - 130*	*02/12/23 09:13*	*02/13/23 01:18*	*1*
o-Terphenyl	*60*	*S1-*	*70 - 130*	*02/12/23 09:13*	*02/13/23 01:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**317**		4.95		mg/Kg			02/10/23 14:32	1

Eurofins Carlsbad

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: B-2-5-6'-20230802

Date Collected: 02/08/23 10:20
Date Received: 02/08/23 16:01

Lab Sample ID: 890-4068-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:23	02/10/23 23:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:23	02/10/23 23:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:23	02/10/23 23:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/10/23 10:23	02/10/23 23:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:23	02/10/23 23:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/10/23 10:23	02/10/23 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*02/10/23 10:23*	*02/10/23 23:48*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*02/10/23 10:23*	*02/10/23 23:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/23 19:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/13/23 01:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/12/23 09:13	02/13/23 01:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/13/23 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*60*	*S1-*	*70 - 130*	*02/12/23 09:13*	*02/13/23 01:39*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*02/12/23 09:13*	*02/13/23 01:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**343**		4.95		mg/Kg			02/10/23 14:36	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-24604-1	SW-2-5-6'-20230902	86	100
880-24604-1 MS	SW-2-5-6'-20230902	94	105
880-24604-1 MSD	SW-2-5-6'-20230902	100	103
880-24604-2	SW-3-5-6'-20230902	85	93
880-24604-3	SW-4-5-6'-20230902	92	90
880-24604-4	B-5-5-6'-20230902	92	95
880-24604-5	B-3-5-6'-20230902	95	89
880-24885-1	SW-6-5-0-11'-20231602	87	82
880-24885-1 MS	SW-6-5-0-11'-20231602	110	106
880-24885-1 MSD	SW-6-5-0-11'-20231602	104	103
880-24885-2	SW-7-5-6-11'-20231602	94	82
880-24885-3	SW-8-5-6-11'-20231602	103	88
880-24885-4	B-4-5-11'-20231602	114	84
880-24885-5	B-6-5-11'-20231602	112	89
880-24885-6	SW-5-5-0-6'-20231602	98	92
880-25049-1	SW-5B-5-0-6'-20230221	191 S1+	71
880-25049-1 MS	SW-5B-5-0-6'-20230221	180 S1+	81
880-25049-1 MSD	SW-5B-5-0-6'-20230221	187 S1+	80
880-25049-2	SW-6B-5-0-11'-20230221	198 S1+	74
880-25049-3	SW-7B-5-0-11'-20230221	226 S1+	80
890-4055-1	TP-1-5-6'- 20230702	116	83
890-4055-2	TP-1-5-8'-20230702	95	90
890-4055-3	SW-1-5-0-4-20230702	87	71
890-4068-1	B-1-5-6'-20230802	117	88
890-4068-1 MS	B-1-5-6'-20230802	107	97
890-4068-1 MSD	B-1-5-6'-20230802	122	103
890-4068-2	B-2-5-6'-20230802	113	87
LCS 880-45966/1-A	Lab Control Sample	111	94
LCS 880-46022/1-A	Lab Control Sample	123	106
LCS 880-46084/1-A	Lab Control Sample	113	105
LCS 880-46300/1-A	Lab Control Sample	103	113
LCS 880-46605/1-A	Lab Control Sample	114	108
LCS 880-46948/1-A	Lab Control Sample	199 S1+	83
LCSD 880-45966/2-A	Lab Control Sample Dup	108	102
LCSD 880-46022/2-A	Lab Control Sample Dup	110	100
LCSD 880-46084/2-A	Lab Control Sample Dup	108	108
LCSD 880-46300/2-A	Lab Control Sample Dup	117	111
LCSD 880-46605/2-A	Lab Control Sample Dup	120	96
LCSD 880-46948/2-A	Lab Control Sample Dup	197 S1+	82
MB 880-45957/5-A	Method Blank	72	95
MB 880-45966/5-A	Method Blank	78	93
MB 880-46022/5-A	Method Blank	79	92
MB 880-46084/5-A	Method Blank	75	92
MB 880-46300/5-A	Method Blank	77	92
MB 880-46605/5-A	Method Blank	76	91
MB 880-46866/5-A	Method Blank	113	75
MB 880-46948/5-A	Method Blank	125	71

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-24604-1	SW-2-5-6'-20230902	71	68 S1-										
880-24604-2	SW-3-5-6'-20230902	71	69 S1-										
880-24604-3	SW-4-5-6'-20230902	56 S1-	57 S1-										
880-24604-4	B-5-5-6'-20230902	55 S1-	57 S1-										
880-24604-5	B-3-5-6'-20230902	58 S1-	55 S1-										
880-24885-1	SW-6-5-0-11'-20231602	109	118										
880-24885-2	SW-7-5-6-11'-20231602	101	111										
880-24885-3	SW-8-5-6-11'-20231602	107	114										
880-24885-4	B-4-5-11'-20231602	85	92										
880-24885-5	B-6-5-11'-20231602	90	98										
880-24885-6	SW-5-5-0-6'-20231602	88	99										
880-25049-1	SW-5B-5-0-6'-20230221	94	91										
880-25049-1 MS	SW-5B-5-0-6'-20230221	107	86										
880-25049-1 MSD	SW-5B-5-0-6'-20230221	122	94										
880-25049-2	SW-6B-5-0-11'-20230221	103	98										
880-25049-3	SW-7B-5-0-11'-20230221	90	85										
890-4055-1	TP-1-5-6'- 20230702	3 S1-	0.7 S1-										
890-4055-2	TP-1-5-8'-20230702	1 S1-	0.7 S1-										
890-4055-3	SW-1-5-0-4-20230702	0.07 S1-	0.6 S1-										
890-4068-1	B-1-5-6'-20230802	57 S1-	60 S1-										
890-4068-2	B-2-5-6'-20230802	60 S1-	62 S1-										
LCS 880-45928/2-A	Lab Control Sample	81	83										
LCS 880-46070/2-A	Lab Control Sample	98	95										
LCS 880-46071/2-A	Lab Control Sample	89	92										
LCS 880-46595/2-A	Lab Control Sample	108	118										
LCS 880-46937/2-A	Lab Control Sample	120	109										
LCSD 880-45928/3-A	Lab Control Sample Dup	93	100										
LCSD 880-46070/3-A	Lab Control Sample Dup	113	94										
LCSD 880-46071/3-A	Lab Control Sample Dup	81	78										
LCSD 880-46595/3-A	Lab Control Sample Dup	106	117										
LCSD 880-46937/3-A	Lab Control Sample Dup	122	110										
MB 880-45928/1-A	Method Blank	87	105										
MB 880-46070/1-A	Method Blank	74	75										
MB 880-46071/1-A	Method Blank	77	77										
MB 880-46595/1-A	Method Blank	97	118										
MB 880-46937/1-A	Method Blank	125	124										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45957/5-A
Matrix: Solid
Analysis Batch: 45954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 08:55	02/10/23 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 08:55	02/10/23 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 08:55	02/10/23 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 08:55	02/10/23 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 08:55	02/10/23 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 08:55	02/10/23 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*02/10/23 08:55*	*02/10/23 11:27*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/10/23 08:55*	*02/10/23 11:27*	*1*

Lab Sample ID: MB 880-45966/5-A
Matrix: Solid
Analysis Batch: 45954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45966

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:23	02/10/23 22:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:23	02/10/23 22:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:23	02/10/23 22:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 10:23	02/10/23 22:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:23	02/10/23 22:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 10:23	02/10/23 22:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*02/10/23 10:23*	*02/10/23 22:25*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/10/23 10:23*	*02/10/23 22:25*	*1*

Lab Sample ID: LCS 880-45966/1-A
Matrix: Solid
Analysis Batch: 45954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09252		mg/Kg		93	70 - 130
Toluene	0.100	0.08882		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09392		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1981		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1039		mg/Kg		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-45966/2-A
Matrix: Solid
Analysis Batch: 45954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45966

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1118		mg/Kg		112	70 - 130	19	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-45966/2-A
Matrix: Solid
Analysis Batch: 45954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45966

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1016		mg/Kg		102	70 - 130	13	35
Ethylbenzene			0.100	0.1056		mg/Kg		106	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.2195		mg/Kg		110	70 - 130	10	35
o-Xylene			0.100	0.1110		mg/Kg		111	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-46022/5-A
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 15:23	02/11/23 15:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*02/10/23 15:23*	*02/11/23 15:47*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/10/23 15:23*	*02/11/23 15:47*	*1*

Lab Sample ID: LCS 880-46022/1-A
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46022

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09910		mg/Kg		99	70 - 130		
Toluene			0.100	0.09313		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.1011		mg/Kg		101	70 - 130		
m-Xylene & p-Xylene			0.200	0.2210		mg/Kg		110	70 - 130		
o-Xylene			0.100	0.1107		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-46022/2-A
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46022

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1111		mg/Kg		111	70 - 130	11	35
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	14	35
Ethylbenzene			0.100	0.1076		mg/Kg		108	70 - 130	6	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-46022/2-A
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46022

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.2306		mg/Kg		115	70 - 130	4	35
o-Xylene			0.100	0.1143		mg/Kg		114	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-4068-1 MS
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: B-1-5-6'-20230802
Prep Type: Total/NA
Prep Batch: 46022

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U F2 F1	0.101	0.1077		mg/Kg		107	70 - 130
Toluene	<0.00202	U F2 F1	0.101	0.1040		mg/Kg		103	70 - 130
Ethylbenzene	<0.00202	U F2 F1	0.101	0.1030		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.202	0.2182		mg/Kg		108	70 - 130
o-Xylene	<0.00202	U F2 F1	0.101	0.1077		mg/Kg		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-4068-1 MSD
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: B-1-5-6'-20230802
Prep Type: Total/NA
Prep Batch: 46022

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F2 F1	0.0996	0.1041		mg/Kg		105	70 - 130	3	35
Toluene	<0.00202	U F2 F1	0.0996	0.1037		mg/Kg		104	70 - 130	0	35
Ethylbenzene	<0.00202	U F2 F1	0.0996	0.1126		mg/Kg		113	70 - 130	9	35
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.199	0.2436		mg/Kg		122	70 - 130	11	35
o-Xylene	<0.00202	U F2 F1	0.0996	0.1207		mg/Kg		121	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-46084/5-A
Matrix: Solid
Analysis Batch: 46087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		02/13/23 08:16	02/13/23 11:41	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/13/23 08:16	02/13/23 11:41	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/13/23 08:16	02/13/23 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/13/23 08:16	02/13/23 11:41	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/13/23 08:16	02/13/23 11:41	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/13/23 08:16	02/13/23 11:41	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	02/13/23 08:16	02/13/23 11:41	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/13/23 08:16	02/13/23 11:41	1

Lab Sample ID: LCS 880-46084/1-A
Matrix: Solid
Analysis Batch: 46087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46084

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1035		mg/Kg		104	70 - 130		
Toluene			0.100	0.1023		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.1061		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2231		mg/Kg		112	70 - 130		
o-Xylene			0.100	0.1105		mg/Kg		110	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-46084/2-A
Matrix: Solid
Analysis Batch: 46087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46084

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1020		mg/Kg		102	70 - 130	1	35
Toluene			0.100	0.09714		mg/Kg		97	70 - 130	5	35
Ethylbenzene			0.100	0.1008		mg/Kg		101	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2130		mg/Kg		107	70 - 130	5	35
o-Xylene			0.100	0.1054		mg/Kg		105	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-24604-1 MS
Matrix: Solid
Analysis Batch: 46087

Client Sample ID: SW-2-5-6'-20230902
Prep Type: Total/NA
Prep Batch: 46084

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.0996	0.08015		mg/Kg		80	70 - 130		
Toluene	<0.00198	U	0.0996	0.07400		mg/Kg		74	70 - 130		
Ethylbenzene	<0.00198	U	0.0996	0.07278		mg/Kg		73	70 - 130		
m-Xylene & p-Xylene	<0.00396	U	0.199	0.1451		mg/Kg		73	70 - 130		
o-Xylene	<0.00198	U	0.0996	0.07151		mg/Kg		72	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-24604-1 MSD
Matrix: Solid
Analysis Batch: 46087

Client Sample ID: SW-2-5-6'-20230902
Prep Type: Total/NA
Prep Batch: 46084

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.09265		mg/Kg		92	70 - 130	14	35
Toluene	<0.00198	U	0.100	0.08794		mg/Kg		88	70 - 130	17	35
Ethylbenzene	<0.00198	U	0.100	0.09075		mg/Kg		91	70 - 130	22	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1815		mg/Kg		91	70 - 130	22	35
o-Xylene	<0.00198	U	0.100	0.08889		mg/Kg		89	70 - 130	22	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-46300/5-A
Matrix: Solid
Analysis Batch: 46358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46300

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:24	02/15/23 10:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:24	02/15/23 10:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:24	02/15/23 10:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/14/23 11:24	02/15/23 10:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:24	02/15/23 10:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/14/23 11:24	02/15/23 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*02/14/23 11:24*	*02/15/23 10:54*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/14/23 11:24*	*02/15/23 10:54*	*1*

Lab Sample ID: LCS 880-46300/1-A
Matrix: Solid
Analysis Batch: 46358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46300

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1228		mg/Kg		123	70 - 130
Toluene	0.100	0.1074		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1083		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2271		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1123		mg/Kg		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-46300/2-A
Matrix: Solid
Analysis Batch: 46358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46300

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1323	*+	mg/Kg		132	70 - 130	7	35
Toluene	0.100	0.1184		mg/Kg		118	70 - 130	10	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-46300/2-A
Matrix: Solid
Analysis Batch: 46358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46300

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.1228		mg/Kg		123	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.2653	*+	mg/Kg		133	70 - 130	15	35
o-Xylene			0.100	0.1313	*+	mg/Kg		131	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: MB 880-46605/5-A
Matrix: Solid
Analysis Batch: 46568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		02/17/23 14:29	02/18/23 01:10	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/17/23 14:29	02/18/23 01:10	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/17/23 14:29	02/18/23 01:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/17/23 14:29	02/18/23 01:10	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/17/23 14:29	02/18/23 01:10	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/17/23 14:29	02/18/23 01:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*02/17/23 14:29*	*02/18/23 01:10*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/17/23 14:29*	*02/18/23 01:10*	*1*

Lab Sample ID: LCS 880-46605/1-A
Matrix: Solid
Analysis Batch: 46568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46605

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.1169		mg/Kg		117	70 - 130
Toluene			0.100	0.1137		mg/Kg		114	70 - 130
Ethylbenzene			0.100	0.1212		mg/Kg		121	70 - 130
m-Xylene & p-Xylene			0.200	0.2622	*+	mg/Kg		131	70 - 130
o-Xylene			0.100	0.1325	*+	mg/Kg		133	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-46605/2-A
Matrix: Solid
Analysis Batch: 46568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46605

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1157		mg/Kg		116	70 - 130	1	35
Toluene			0.100	0.1144		mg/Kg		114	70 - 130	1	35
Ethylbenzene			0.100	0.1190		mg/Kg		119	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2570		mg/Kg		129	70 - 130	2	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-46605/2-A
Matrix: Solid
Analysis Batch: 46568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46605

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o-Xylene			0.100	0.1300		mg/Kg		130	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-24885-1 MS
Matrix: Solid
Analysis Batch: 46568

Client Sample ID: SW-6-5-0-11'-20231602
Prep Type: Total/NA
Prep Batch: 46605

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.1040		mg/Kg		103	70 - 130
Toluene	<0.00202	U	0.101	0.09838		mg/Kg		98	70 - 130
Ethylbenzene	<0.00202	U	0.101	0.1021		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00403	U *+	0.202	0.2157		mg/Kg		107	70 - 130
o-Xylene	<0.00202	U *+	0.101	0.1075		mg/Kg		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-24885-1 MSD
Matrix: Solid
Analysis Batch: 46568

Client Sample ID: SW-6-5-0-11'-20231602
Prep Type: Total/NA
Prep Batch: 46605

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0996	0.09782		mg/Kg		98	70 - 130	6	35
Toluene	<0.00202	U	0.0996	0.09762		mg/Kg		98	70 - 130	1	35
Ethylbenzene	<0.00202	U	0.0996	0.09330		mg/Kg		94	70 - 130	9	35
m-Xylene & p-Xylene	<0.00403	U *+	0.199	0.1931		mg/Kg		97	70 - 130	11	35
o-Xylene	<0.00202	U *+	0.0996	0.09591		mg/Kg		96	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-46866/5-A
Matrix: Solid
Analysis Batch: 46925

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		02/21/23 14:31	02/22/23 11:37	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/21/23 14:31	02/22/23 11:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/21/23 14:31	02/22/23 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/21/23 14:31	02/22/23 11:37	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/21/23 14:31	02/22/23 11:37	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/21/23 14:31	02/22/23 11:37	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-46866/5-A
Matrix: Solid
Analysis Batch: 46925

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46866

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	02/21/23 14:31	02/22/23 11:37	1
1,4-Difluorobenzene (Surr)	75		70 - 130	02/21/23 14:31	02/22/23 11:37	1

Lab Sample ID: MB 880-46948/5-A
Matrix: Solid
Analysis Batch: 46925

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46948

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		02/22/23 14:24	02/23/23 01:12	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/22/23 14:24	02/23/23 01:12	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/22/23 14:24	02/23/23 01:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/22/23 14:24	02/23/23 01:12	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/22/23 14:24	02/23/23 01:12	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/22/23 14:24	02/23/23 01:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	02/22/23 14:24	02/23/23 01:12	1
1,4-Difluorobenzene (Surr)	71		70 - 130	02/22/23 14:24	02/23/23 01:12	1

Lab Sample ID: LCS 880-46948/1-A
Matrix: Solid
Analysis Batch: 46925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1279		mg/Kg		128	70 - 130
Toluene	0.100	0.1292		mg/Kg		129	70 - 130
Ethylbenzene	0.100	0.1268		mg/Kg		127	70 - 130
m-Xylene & p-Xylene	0.200	0.2592		mg/Kg		130	70 - 130
o-Xylene	0.100	0.1242		mg/Kg		124	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	199	S1+	70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: LCSD 880-46948/2-A
Matrix: Solid
Analysis Batch: 46925

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46948

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1457	*+	mg/Kg		146	70 - 130	13	35
Toluene	0.100	0.1491	*+	mg/Kg		149	70 - 130	14	35
Ethylbenzene	0.100	0.1497	*+	mg/Kg		150	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.3065	*+	mg/Kg		153	70 - 130	17	35
o-Xylene	0.100	0.1486	*+	mg/Kg		149	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-46948/2-A
Matrix: Solid
Analysis Batch: 46925

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46948

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: 880-25049-1 MS
Matrix: Solid
Analysis Batch: 46925

Client Sample ID: SW-5B-5-0-6'-20230221
Prep Type: Total/NA
Prep Batch: 46948

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U *+	0.101	0.1225		mg/Kg		122	70 - 130
Toluene	<0.00198	U *+	0.101	0.1220		mg/Kg		121	70 - 130
Ethylbenzene	<0.00198	U *+	0.101	0.1226		mg/Kg		122	70 - 130
m-Xylene & p-Xylene	<0.00396	U *+	0.202	0.2506		mg/Kg		124	70 - 130
o-Xylene	<0.00198	U *+	0.101	0.1188		mg/Kg		118	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 880-25049-1 MSD
Matrix: Solid
Analysis Batch: 46925

Client Sample ID: SW-5B-5-0-6'-20230221
Prep Type: Total/NA
Prep Batch: 46948

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U *+	0.0992	0.1275		mg/Kg		129	70 - 130	4	35
Toluene	<0.00198	U *+	0.0992	0.1178		mg/Kg		119	70 - 130	4	35
Ethylbenzene	<0.00198	U *+	0.0992	0.1169		mg/Kg		118	70 - 130	5	35
m-Xylene & p-Xylene	<0.00396	U *+	0.198	0.2401		mg/Kg		121	70 - 130	4	35
o-Xylene	<0.00198	U *+	0.0992	0.1168		mg/Kg		118	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	187	S1+	70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-45928/1-A
Matrix: Solid
Analysis Batch: 46064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/09/23 17:25	02/12/23 09:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/23 17:25	02/12/23 09:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/23 17:25	02/12/23 09:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	02/09/23 17:25	02/12/23 09:21	1
o-Terphenyl	105		70 - 130	02/09/23 17:25	02/12/23 09:21	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-45928/2-A
Matrix: Solid
Analysis Batch: 46064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45928

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	628.6	*-	mg/Kg		63	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	649.0	*-	mg/Kg		65	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: LCSD 880-45928/3-A
Matrix: Solid
Analysis Batch: 46064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45928

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	886.7	*1	mg/Kg		89	70 - 130	34	20
Diesel Range Organics (Over C10-C28)			1000	848.7	*1	mg/Kg		85	70 - 130	27	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: MB 880-46070/1-A
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.32	J	49.9	15.0	mg/Kg		02/12/23 09:06	02/12/23 09:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		02/12/23 09:06	02/12/23 09:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		02/12/23 09:06	02/12/23 09:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*02/12/23 09:06*	*02/12/23 09:21*	*1*
o-Terphenyl	*75*		*70 - 130*	*02/12/23 09:06*	*02/12/23 09:21*	*1*

Lab Sample ID: LCS 880-46070/2-A
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46070

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			999	987.2		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			999	1094		mg/Kg		110	70 - 130		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-46070/2-A
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46070

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-46070/3-A
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46070

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	1059		mg/Kg		106	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			999	1004		mg/Kg		101	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: MB 880-46071/1-A
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/12/23 21:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/12/23 21:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/12/23 21:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	02/12/23 09:13	02/12/23 21:21	1
o-Terphenyl	77		70 - 130	02/12/23 09:13	02/12/23 21:21	1

Lab Sample ID: LCS 880-46071/2-A
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46071

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			999	904.6		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)			999	945.1		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	92		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-46071/3-A
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46071

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	764.6		mg/Kg		77	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			999	746.8	*1	mg/Kg		75	70 - 130	23	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Lab Sample ID: MB 880-46595/1-A
Matrix: Solid
Analysis Batch: 46617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		02/17/23 10:54	02/18/23 08:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		02/17/23 10:54	02/18/23 08:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/17/23 10:54	02/18/23 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*02/17/23 10:54*	*02/18/23 08:39*	*1*
o-Terphenyl	*118*		*70 - 130*	*02/17/23 10:54*	*02/18/23 08:39*	*1*

Lab Sample ID: LCS 880-46595/2-A
Matrix: Solid
Analysis Batch: 46617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46595

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	907.8		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	937.0		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*118*		*70 - 130*

Lab Sample ID: LCSD 880-46595/3-A
Matrix: Solid
Analysis Batch: 46617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	935.8		mg/Kg		94	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	921.9		mg/Kg		92	70 - 130	2	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-46595/3-A
Matrix: Solid
Analysis Batch: 46617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46595

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Lab Sample ID: MB 880-46937/1-A
Matrix: Solid
Analysis Batch: 46917

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46937

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.27	J	49.9	15.0	mg/Kg		02/22/23 10:27	02/22/23 09:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		02/22/23 10:27	02/22/23 09:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		02/22/23 10:27	02/22/23 09:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*02/22/23 10:27*	*02/22/23 09:13*	*1*
o-Terphenyl	*124*		*70 - 130*	*02/22/23 10:27*	*02/22/23 09:13*	*1*

Lab Sample ID: LCS 880-46937/2-A
Matrix: Solid
Analysis Batch: 46917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46937

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			999	1012		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			999	996.5		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: LCSD 880-46937/3-A
Matrix: Solid
Analysis Batch: 46917

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46937

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	930.7		mg/Kg		93	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			999	999.6		mg/Kg		100	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*122*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-25049-1 MS
Matrix: Solid
Analysis Batch: 46917

Client Sample ID: SW-5B-5-0-6'-20230221
Prep Type: Total/NA
Prep Batch: 46938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	896.6		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	55.4		997	809.8		mg/Kg		76	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: 880-25049-1 MSD
Matrix: Solid
Analysis Batch: 46917

Client Sample ID: SW-5B-5-0-6'-20230221
Prep Type: Total/NA
Prep Batch: 46938

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	784.4		mg/Kg		79	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	55.4		998	890.7		mg/Kg		84	70 - 130	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*122*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45234/1-A
Matrix: Solid
Analysis Batch: 45416

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/03/23 15:13	1

Lab Sample ID: LCS 880-45234/2-A
Matrix: Solid
Analysis Batch: 45416

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.4		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-45234/3-A
Matrix: Solid
Analysis Batch: 45416

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.3		mg/Kg		103	90 - 110	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-45893/1-A
Matrix: Solid
Analysis Batch: 45906

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/09/23 14:51	1

Lab Sample ID: LCS 880-45893/2-A
Matrix: Solid
Analysis Batch: 45906

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.2		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-45893/3-A
Matrix: Solid
Analysis Batch: 45906

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	239.6		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-4055-1 MS
Matrix: Solid
Analysis Batch: 45906

Client Sample ID: TP-1-5-6'- 20230702
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	167		248	395.3		mg/Kg		92	90 - 110

Lab Sample ID: 890-4055-1 MSD
Matrix: Solid
Analysis Batch: 45906

Client Sample ID: TP-1-5-6'- 20230702
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	167		248	396.3		mg/Kg		93	90 - 110	0	20

Lab Sample ID: MB 880-45964/1-A
Matrix: Solid
Analysis Batch: 45984

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/10/23 11:27	1

Lab Sample ID: LCS 880-45964/2-A
Matrix: Solid
Analysis Batch: 45984

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.9		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-45964/3-A
Matrix: Solid
Analysis Batch: 45984

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	227.2		mg/Kg		91	90 - 110	6	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46031/1-A
Matrix: Solid
Analysis Batch: 46049

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			02/11/23 01:11	1

Lab Sample ID: LCS 880-46031/2-A
Matrix: Solid
Analysis Batch: 46049

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.6		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-46031/3-A
Matrix: Solid
Analysis Batch: 46049

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	243.3		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-46601/1-A
Matrix: Solid
Analysis Batch: 46610

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			02/17/23 14:48	1

Lab Sample ID: LCS 880-46601/2-A
Matrix: Solid
Analysis Batch: 46610

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.0		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-46601/3-A
Matrix: Solid
Analysis Batch: 46610

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	233.8		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-24885-1 MS
Matrix: Solid
Analysis Batch: 46610

Client Sample ID: SW-6-5-0-11'-20231602
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	447		249	674.3		mg/Kg		91	90 - 110

Lab Sample ID: 880-24885-1 MSD
Matrix: Solid
Analysis Batch: 46610

Client Sample ID: SW-6-5-0-11'-20231602
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	447		249	675.5		mg/Kg		92	90 - 110	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46930/1-A
Matrix: Solid
Analysis Batch: 46980

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			02/22/23 22:55	1

Lab Sample ID: LCS 880-46930/2-A
Matrix: Solid
Analysis Batch: 46980

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	245.3		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-46930/3-A
Matrix: Solid
Analysis Batch: 46980

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	246.7		mg/Kg		99	90 - 110	1	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

GC VOA

Analysis Batch: 45954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4068-1	B-1-5-6'-20230802	Total/NA	Solid	8021B	45966
890-4068-2	B-2-5-6'-20230802	Total/NA	Solid	8021B	45966
MB 880-45957/5-A	Method Blank	Total/NA	Solid	8021B	45957
MB 880-45966/5-A	Method Blank	Total/NA	Solid	8021B	45966
LCS 880-45966/1-A	Lab Control Sample	Total/NA	Solid	8021B	45966
LCSD 880-45966/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45966

Prep Batch: 45957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45957/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 45966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4068-1	B-1-5-6'-20230802	Total/NA	Solid	5035	
890-4068-2	B-2-5-6'-20230802	Total/NA	Solid	5035	
MB 880-45966/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45966/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45966/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 46022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46022/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46022/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46022/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4068-1 MS	B-1-5-6'-20230802	Total/NA	Solid	5035	
890-4068-1 MSD	B-1-5-6'-20230802	Total/NA	Solid	5035	

Analysis Batch: 46060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46022/5-A	Method Blank	Total/NA	Solid	8021B	46022
LCS 880-46022/1-A	Lab Control Sample	Total/NA	Solid	8021B	46022
LCSD 880-46022/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46022
890-4068-1 MS	B-1-5-6'-20230802	Total/NA	Solid	8021B	46022
890-4068-1 MSD	B-1-5-6'-20230802	Total/NA	Solid	8021B	46022

Prep Batch: 46084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24604-1	SW-2-5-6'-20230902	Total/NA	Solid	5030B	
880-24604-2	SW-3-5-6'-20230902	Total/NA	Solid	5030B	
880-24604-3	SW-4-5-6'-20230902	Total/NA	Solid	5030B	
880-24604-4	B-5-5-6'-20230902	Total/NA	Solid	5030B	
880-24604-5	B-3-5-6'-20230902	Total/NA	Solid	5030B	
MB 880-46084/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-46084/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-46084/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-24604-1 MS	SW-2-5-6'-20230902	Total/NA	Solid	5030B	
880-24604-1 MSD	SW-2-5-6'-20230902	Total/NA	Solid	5030B	

Analysis Batch: 46087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24604-1	SW-2-5-6'-20230902	Total/NA	Solid	8021B	46084

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

GC VOA (Continued)

Analysis Batch: 46087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24604-2	SW-3-5-6'-20230902	Total/NA	Solid	8021B	46084
880-24604-3	SW-4-5-6'-20230902	Total/NA	Solid	8021B	46084
880-24604-4	B-5-5-6'-20230902	Total/NA	Solid	8021B	46084
880-24604-5	B-3-5-6'-20230902	Total/NA	Solid	8021B	46084
MB 880-46084/5-A	Method Blank	Total/NA	Solid	8021B	46084
LCS 880-46084/1-A	Lab Control Sample	Total/NA	Solid	8021B	46084
LCSD 880-46084/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46084
880-24604-1 MS	SW-2-5-6'-20230902	Total/NA	Solid	8021B	46084
880-24604-1 MSD	SW-2-5-6'-20230902	Total/NA	Solid	8021B	46084

Analysis Batch: 46229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4068-1	B-1-5-6'-20230802	Total/NA	Solid	Total BTEX	
890-4068-2	B-2-5-6'-20230802	Total/NA	Solid	Total BTEX	

Analysis Batch: 46295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24604-1	SW-2-5-6'-20230902	Total/NA	Solid	Total BTEX	
880-24604-2	SW-3-5-6'-20230902	Total/NA	Solid	Total BTEX	
880-24604-3	SW-4-5-6'-20230902	Total/NA	Solid	Total BTEX	
880-24604-4	B-5-5-6'-20230902	Total/NA	Solid	Total BTEX	
880-24604-5	B-3-5-6'-20230902	Total/NA	Solid	Total BTEX	

Prep Batch: 46300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4055-1	TP-1-5-6'- 20230702	Total/NA	Solid	5030B	
890-4055-2	TP-1-5-8'-20230702	Total/NA	Solid	5030B	
890-4055-3	SW-1-5-0-4-20230702	Total/NA	Solid	5030B	
MB 880-46300/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-46300/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-46300/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 46358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4055-1	TP-1-5-6'- 20230702	Total/NA	Solid	8021B	46300
890-4055-2	TP-1-5-8'-20230702	Total/NA	Solid	8021B	46300
890-4055-3	SW-1-5-0-4-20230702	Total/NA	Solid	8021B	46300
MB 880-46300/5-A	Method Blank	Total/NA	Solid	8021B	46300
LCS 880-46300/1-A	Lab Control Sample	Total/NA	Solid	8021B	46300
LCSD 880-46300/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46300

Analysis Batch: 46435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4055-1	TP-1-5-6'- 20230702	Total/NA	Solid	Total BTEX	
890-4055-2	TP-1-5-8'-20230702	Total/NA	Solid	Total BTEX	
890-4055-3	SW-1-5-0-4-20230702	Total/NA	Solid	Total BTEX	

Analysis Batch: 46568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24885-1	SW-6-5-0-11'-20231602	Total/NA	Solid	8021B	46605
880-24885-2	SW-7-5-6-11'-20231602	Total/NA	Solid	8021B	46605

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

GC VOA (Continued)

Analysis Batch: 46568 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24885-3	SW-8-5-6-11'-20231602	Total/NA	Solid	8021B	46605
880-24885-4	B-4-5-11'-20231602	Total/NA	Solid	8021B	46605
880-24885-5	B-6-5-11'-20231602	Total/NA	Solid	8021B	46605
880-24885-6	SW-5-5-0-6'-20231602	Total/NA	Solid	8021B	46605
MB 880-46605/5-A	Method Blank	Total/NA	Solid	8021B	46605
LCS 880-46605/1-A	Lab Control Sample	Total/NA	Solid	8021B	46605
LCSD 880-46605/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46605
880-24885-1 MS	SW-6-5-0-11'-20231602	Total/NA	Solid	8021B	46605
880-24885-1 MSD	SW-6-5-0-11'-20231602	Total/NA	Solid	8021B	46605

Prep Batch: 46605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24885-1	SW-6-5-0-11'-20231602	Total/NA	Solid	5030B	
880-24885-2	SW-7-5-6-11'-20231602	Total/NA	Solid	5030B	
880-24885-3	SW-8-5-6-11'-20231602	Total/NA	Solid	5030B	
880-24885-4	B-4-5-11'-20231602	Total/NA	Solid	5030B	
880-24885-5	B-6-5-11'-20231602	Total/NA	Solid	5030B	
880-24885-6	SW-5-5-0-6'-20231602	Total/NA	Solid	5030B	
MB 880-46605/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-46605/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-46605/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-24885-1 MS	SW-6-5-0-11'-20231602	Total/NA	Solid	5030B	
880-24885-1 MSD	SW-6-5-0-11'-20231602	Total/NA	Solid	5030B	

Analysis Batch: 46748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24885-1	SW-6-5-0-11'-20231602	Total/NA	Solid	Total BTEX	
880-24885-2	SW-7-5-6-11'-20231602	Total/NA	Solid	Total BTEX	
880-24885-3	SW-8-5-6-11'-20231602	Total/NA	Solid	Total BTEX	
880-24885-4	B-4-5-11'-20231602	Total/NA	Solid	Total BTEX	
880-24885-5	B-6-5-11'-20231602	Total/NA	Solid	Total BTEX	
880-24885-6	SW-5-5-0-6'-20231602	Total/NA	Solid	Total BTEX	

Prep Batch: 46866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46866/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 46925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25049-1	SW-5B-5-0-6'-20230221	Total/NA	Solid	8021B	46948
880-25049-2	SW-6B-5-0-11'-20230221	Total/NA	Solid	8021B	46948
880-25049-3	SW-7B-5-0-11'-20230221	Total/NA	Solid	8021B	46948
MB 880-46866/5-A	Method Blank	Total/NA	Solid	8021B	46866
MB 880-46948/5-A	Method Blank	Total/NA	Solid	8021B	46948
LCS 880-46948/1-A	Lab Control Sample	Total/NA	Solid	8021B	46948
LCSD 880-46948/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46948
880-25049-1 MS	SW-5B-5-0-6'-20230221	Total/NA	Solid	8021B	46948
880-25049-1 MSD	SW-5B-5-0-6'-20230221	Total/NA	Solid	8021B	46948

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

GC VOA

Prep Batch: 46948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25049-1	SW-5B-5-0-6'-20230221	Total/NA	Solid	5030B	
880-25049-2	SW-6B-5-0-11'-20230221	Total/NA	Solid	5030B	
880-25049-3	SW-7B-5-0-11'-20230221	Total/NA	Solid	5030B	
MB 880-46948/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-46948/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-46948/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-25049-1 MS	SW-5B-5-0-6'-20230221	Total/NA	Solid	5030B	
880-25049-1 MSD	SW-5B-5-0-6'-20230221	Total/NA	Solid	5030B	

Analysis Batch: 47060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25049-1	SW-5B-5-0-6'-20230221	Total/NA	Solid	Total BTEX	
880-25049-2	SW-6B-5-0-11'-20230221	Total/NA	Solid	Total BTEX	
880-25049-3	SW-7B-5-0-11'-20230221	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4055-1	TP-1-5-6'- 20230702	Total/NA	Solid	8015NM Prep	
890-4055-2	TP-1-5-8'-20230702	Total/NA	Solid	8015NM Prep	
890-4055-3	SW-1-5-0-4-20230702	Total/NA	Solid	8015NM Prep	
MB 880-45928/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45928/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45928/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24604-1	SW-2-5-6'-20230902	Total/NA	Solid	8015B NM	46070
880-24604-2	SW-3-5-6'-20230902	Total/NA	Solid	8015B NM	46070
880-24604-3	SW-4-5-6'-20230902	Total/NA	Solid	8015B NM	46070
880-24604-4	B-5-5-6'-20230902	Total/NA	Solid	8015B NM	46070
880-24604-5	B-3-5-6'-20230902	Total/NA	Solid	8015B NM	46070
890-4068-1	B-1-5-6'-20230802	Total/NA	Solid	8015B NM	46071
890-4068-2	B-2-5-6'-20230802	Total/NA	Solid	8015B NM	46071
MB 880-46070/1-A	Method Blank	Total/NA	Solid	8015B NM	46070
MB 880-46071/1-A	Method Blank	Total/NA	Solid	8015B NM	46071
LCS 880-46070/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46070
LCS 880-46071/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46071
LCSD 880-46070/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46070
LCSD 880-46071/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46071

Analysis Batch: 46064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4055-1	TP-1-5-6'- 20230702	Total/NA	Solid	8015B NM	45928
890-4055-2	TP-1-5-8'-20230702	Total/NA	Solid	8015B NM	45928
890-4055-3	SW-1-5-0-4-20230702	Total/NA	Solid	8015B NM	45928
MB 880-45928/1-A	Method Blank	Total/NA	Solid	8015B NM	45928
LCS 880-45928/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45928
LCSD 880-45928/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45928

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

GC Semi VOA

Prep Batch: 46070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24604-1	SW-2-5-6'-20230902	Total/NA	Solid	8015NM Prep	
880-24604-2	SW-3-5-6'-20230902	Total/NA	Solid	8015NM Prep	
880-24604-3	SW-4-5-6'-20230902	Total/NA	Solid	8015NM Prep	
880-24604-4	B-5-5-6'-20230902	Total/NA	Solid	8015NM Prep	
880-24604-5	B-3-5-6'-20230902	Total/NA	Solid	8015NM Prep	
MB 880-46070/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46070/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46070/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 46071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4068-1	B-1-5-6'-20230802	Total/NA	Solid	8015NM Prep	
890-4068-2	B-2-5-6'-20230802	Total/NA	Solid	8015NM Prep	
MB 880-46071/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46071/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46071/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4068-1	B-1-5-6'-20230802	Total/NA	Solid	8015 NM	
890-4068-2	B-2-5-6'-20230802	Total/NA	Solid	8015 NM	

Analysis Batch: 46213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4055-1	TP-1-5-6'- 20230702	Total/NA	Solid	8015 NM	
890-4055-2	TP-1-5-8'-20230702	Total/NA	Solid	8015 NM	
890-4055-3	SW-1-5-0-4-20230702	Total/NA	Solid	8015 NM	

Analysis Batch: 46292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24604-1	SW-2-5-6'-20230902	Total/NA	Solid	8015 NM	
880-24604-2	SW-3-5-6'-20230902	Total/NA	Solid	8015 NM	
880-24604-3	SW-4-5-6'-20230902	Total/NA	Solid	8015 NM	
880-24604-4	B-5-5-6'-20230902	Total/NA	Solid	8015 NM	
880-24604-5	B-3-5-6'-20230902	Total/NA	Solid	8015 NM	

Prep Batch: 46595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24885-1	SW-6-5-0-11'-20231602	Total/NA	Solid	8015NM Prep	
880-24885-2	SW-7-5-6-11'-20231602	Total/NA	Solid	8015NM Prep	
880-24885-3	SW-8-5-6-11'-20231602	Total/NA	Solid	8015NM Prep	
880-24885-4	B-4-5-11'-20231602	Total/NA	Solid	8015NM Prep	
880-24885-5	B-6-5-11'-20231602	Total/NA	Solid	8015NM Prep	
880-24885-6	SW-5-5-0-6'-20231602	Total/NA	Solid	8015NM Prep	
MB 880-46595/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46595/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46595/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24885-1	SW-6-5-0-11'-20231602	Total/NA	Solid	8015B NM	46595

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

GC Semi VOA (Continued)

Analysis Batch: 46617 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24885-2	SW-7-5-6-11'-20231602	Total/NA	Solid	8015B NM	46595
880-24885-3	SW-8-5-6-11'-20231602	Total/NA	Solid	8015B NM	46595
880-24885-4	B-4-5-11'-20231602	Total/NA	Solid	8015B NM	46595
880-24885-5	B-6-5-11'-20231602	Total/NA	Solid	8015B NM	46595
880-24885-6	SW-5-5-0-6'-20231602	Total/NA	Solid	8015B NM	46595
MB 880-46595/1-A	Method Blank	Total/NA	Solid	8015B NM	46595
LCS 880-46595/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46595
LCSD 880-46595/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46595

Analysis Batch: 46793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24885-1	SW-6-5-0-11'-20231602	Total/NA	Solid	8015 NM	
880-24885-2	SW-7-5-6-11'-20231602	Total/NA	Solid	8015 NM	
880-24885-3	SW-8-5-6-11'-20231602	Total/NA	Solid	8015 NM	
880-24885-4	B-4-5-11'-20231602	Total/NA	Solid	8015 NM	
880-24885-5	B-6-5-11'-20231602	Total/NA	Solid	8015 NM	
880-24885-6	SW-5-5-0-6'-20231602	Total/NA	Solid	8015 NM	

Analysis Batch: 46917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25049-1	SW-5B-5-0-6'-20230221	Total/NA	Solid	8015B NM	46938
880-25049-2	SW-6B-5-0-11'-20230221	Total/NA	Solid	8015B NM	46937
880-25049-3	SW-7B-5-0-11'-20230221	Total/NA	Solid	8015B NM	46937
MB 880-46937/1-A	Method Blank	Total/NA	Solid	8015B NM	46937
LCS 880-46937/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46937
LCSD 880-46937/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46937
880-25049-1 MS	SW-5B-5-0-6'-20230221	Total/NA	Solid	8015B NM	46938
880-25049-1 MSD	SW-5B-5-0-6'-20230221	Total/NA	Solid	8015B NM	46938

Prep Batch: 46937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25049-2	SW-6B-5-0-11'-20230221	Total/NA	Solid	8015NM Prep	
880-25049-3	SW-7B-5-0-11'-20230221	Total/NA	Solid	8015NM Prep	
MB 880-46937/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46937/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46937/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 46938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25049-1	SW-5B-5-0-6'-20230221	Total/NA	Solid	8015NM Prep	
880-25049-1 MS	SW-5B-5-0-6'-20230221	Total/NA	Solid	8015NM Prep	
880-25049-1 MSD	SW-5B-5-0-6'-20230221	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25049-1	SW-5B-5-0-6'-20230221	Total/NA	Solid	8015 NM	
880-25049-2	SW-6B-5-0-11'-20230221	Total/NA	Solid	8015 NM	
880-25049-3	SW-7B-5-0-11'-20230221	Total/NA	Solid	8015 NM	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

HPLC/IC

Leach Batch: 45234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4002-12	C-1--5-0-6' 20230131	Soluble	Solid	DI Leach	
MB 880-45234/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45234/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45234/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 45416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4002-12	C-1--5-0-6' 20230131	Soluble	Solid	300.0	45234
MB 880-45234/1-A	Method Blank	Soluble	Solid	300.0	45234
LCS 880-45234/2-A	Lab Control Sample	Soluble	Solid	300.0	45234
LCSD 880-45234/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45234

Leach Batch: 45893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4055-1	TP-1-5-6'- 20230702	Soluble	Solid	DI Leach	
890-4055-2	TP-1-5-8'-20230702	Soluble	Solid	DI Leach	
890-4055-3	SW-1-5-0-4-20230702	Soluble	Solid	DI Leach	
MB 880-45893/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45893/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45893/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4055-1 MS	TP-1-5-6'- 20230702	Soluble	Solid	DI Leach	
890-4055-1 MSD	TP-1-5-6'- 20230702	Soluble	Solid	DI Leach	

Analysis Batch: 45906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4055-1	TP-1-5-6'- 20230702	Soluble	Solid	300.0	45893
890-4055-2	TP-1-5-8'-20230702	Soluble	Solid	300.0	45893
890-4055-3	SW-1-5-0-4-20230702	Soluble	Solid	300.0	45893
MB 880-45893/1-A	Method Blank	Soluble	Solid	300.0	45893
LCS 880-45893/2-A	Lab Control Sample	Soluble	Solid	300.0	45893
LCSD 880-45893/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45893
890-4055-1 MS	TP-1-5-6'- 20230702	Soluble	Solid	300.0	45893
890-4055-1 MSD	TP-1-5-6'- 20230702	Soluble	Solid	300.0	45893

Leach Batch: 45964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4068-1	B-1-5-6'-20230802	Soluble	Solid	DI Leach	
890-4068-2	B-2-5-6'-20230802	Soluble	Solid	DI Leach	
MB 880-45964/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45964/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45964/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 45984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4068-1	B-1-5-6'-20230802	Soluble	Solid	300.0	45964
890-4068-2	B-2-5-6'-20230802	Soluble	Solid	300.0	45964
MB 880-45964/1-A	Method Blank	Soluble	Solid	300.0	45964
LCS 880-45964/2-A	Lab Control Sample	Soluble	Solid	300.0	45964
LCSD 880-45964/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45964

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

HPLC/IC

Leach Batch: 46031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24604-1	SW-2-5-6'-20230902	Soluble	Solid	DI Leach	
880-24604-2	SW-3-5-6'-20230902	Soluble	Solid	DI Leach	
880-24604-3	SW-4-5-6'-20230902	Soluble	Solid	DI Leach	
880-24604-4	B-5-5-6'-20230902	Soluble	Solid	DI Leach	
880-24604-5	B-3-5-6'-20230902	Soluble	Solid	DI Leach	
MB 880-46031/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46031/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46031/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 46049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24604-1	SW-2-5-6'-20230902	Soluble	Solid	300.0	46031
880-24604-2	SW-3-5-6'-20230902	Soluble	Solid	300.0	46031
880-24604-3	SW-4-5-6'-20230902	Soluble	Solid	300.0	46031
880-24604-4	B-5-5-6'-20230902	Soluble	Solid	300.0	46031
880-24604-5	B-3-5-6'-20230902	Soluble	Solid	300.0	46031
MB 880-46031/1-A	Method Blank	Soluble	Solid	300.0	46031
LCS 880-46031/2-A	Lab Control Sample	Soluble	Solid	300.0	46031
LCSD 880-46031/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46031

Leach Batch: 46601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24885-1	SW-6-5-0-11'-20231602	Soluble	Solid	DI Leach	
880-24885-2	SW-7-5-6-11'-20231602	Soluble	Solid	DI Leach	
880-24885-3	SW-8-5-6-11'-20231602	Soluble	Solid	DI Leach	
880-24885-4	B-4-5-11'-20231602	Soluble	Solid	DI Leach	
880-24885-5	B-6-5-11'-20231602	Soluble	Solid	DI Leach	
880-24885-6	SW-5-5-0-6'-20231602	Soluble	Solid	DI Leach	
MB 880-46601/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46601/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46601/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24885-1 MS	SW-6-5-0-11'-20231602	Soluble	Solid	DI Leach	
880-24885-1 MSD	SW-6-5-0-11'-20231602	Soluble	Solid	DI Leach	

Analysis Batch: 46610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24885-1	SW-6-5-0-11'-20231602	Soluble	Solid	300.0	46601
880-24885-2	SW-7-5-6-11'-20231602	Soluble	Solid	300.0	46601
880-24885-3	SW-8-5-6-11'-20231602	Soluble	Solid	300.0	46601
880-24885-4	B-4-5-11'-20231602	Soluble	Solid	300.0	46601
880-24885-5	B-6-5-11'-20231602	Soluble	Solid	300.0	46601
880-24885-6	SW-5-5-0-6'-20231602	Soluble	Solid	300.0	46601
MB 880-46601/1-A	Method Blank	Soluble	Solid	300.0	46601
LCS 880-46601/2-A	Lab Control Sample	Soluble	Solid	300.0	46601
LCSD 880-46601/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46601
880-24885-1 MS	SW-6-5-0-11'-20231602	Soluble	Solid	300.0	46601
880-24885-1 MSD	SW-6-5-0-11'-20231602	Soluble	Solid	300.0	46601

Leach Batch: 46930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25049-1	SW-5B-5-0-6'-20230221	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

HPLC/IC (Continued)

Leach Batch: 46930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25049-2	SW-6B-5-0-11'-20230221	Soluble	Solid	DI Leach	
880-25049-3	SW-7B-5-0-11'-20230221	Soluble	Solid	DI Leach	
MB 880-46930/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46930/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46930/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 46980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25049-1	SW-5B-5-0-6'-20230221	Soluble	Solid	300.0	46930
880-25049-2	SW-6B-5-0-11'-20230221	Soluble	Solid	300.0	46930
880-25049-3	SW-7B-5-0-11'-20230221	Soluble	Solid	300.0	46930
MB 880-46930/1-A	Method Blank	Soluble	Solid	300.0	46930
LCS 880-46930/2-A	Lab Control Sample	Soluble	Solid	300.0	46930
LCSD 880-46930/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46930

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-2-5-6'-20230902
Lab Sample ID: 880-24604-1
Date Collected: 02/09/23 10:50
Matrix: Solid
Date Received: 02/10/23 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	46084	02/13/23 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46087	02/13/23 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46295	02/14/23 11:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46292	02/14/23 10:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46070	02/12/23 09:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/12/23 16:17	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	46031	02/10/23 17:30	KS	EET MID
Soluble	Analysis	300.0		1			46049	02/11/23 03:52	CH	EET MID

Client Sample ID: SW-3-5-6'-20230902
Lab Sample ID: 880-24604-2
Date Collected: 02/09/23 12:00
Matrix: Solid
Date Received: 02/10/23 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	46084	02/13/23 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46087	02/13/23 12:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46295	02/14/23 11:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46292	02/14/23 10:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46070	02/12/23 09:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/12/23 16:38	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46031	02/10/23 17:30	KS	EET MID
Soluble	Analysis	300.0		1			46049	02/11/23 03:59	CH	EET MID

Client Sample ID: SW-4-5-6'-20230902
Lab Sample ID: 880-24604-3
Date Collected: 02/09/23 12:10
Matrix: Solid
Date Received: 02/10/23 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	46084	02/13/23 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46087	02/13/23 12:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46295	02/14/23 11:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46292	02/14/23 10:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46070	02/12/23 09:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/12/23 17:21	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46031	02/10/23 17:30	KS	EET MID
Soluble	Analysis	300.0		1			46049	02/11/23 04:05	CH	EET MID

Client Sample ID: B-5-5-6'-20230902
Lab Sample ID: 880-24604-4
Date Collected: 02/09/23 14:20
Matrix: Solid
Date Received: 02/10/23 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	46084	02/13/23 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46087	02/13/23 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46295	02/14/23 11:01	AJ	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: B-5-5-6'-20230902
Date Collected: 02/09/23 14:20
Date Received: 02/10/23 16:53

Lab Sample ID: 880-24604-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46292	02/14/23 10:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	46070	02/12/23 09:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/12/23 17:42	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46031	02/10/23 17:30	KS	EET MID
Soluble	Analysis	300.0		1			46049	02/11/23 04:11	CH	EET MID

Client Sample ID: B-3-5-6'-20230902
Date Collected: 02/09/23 14:30
Date Received: 02/10/23 16:53

Lab Sample ID: 880-24604-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	46084	02/13/23 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46087	02/13/23 13:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46295	02/14/23 11:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46292	02/14/23 10:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46070	02/12/23 09:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/12/23 18:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46031	02/10/23 19:09	KS	EET MID
Soluble	Analysis	300.0		1			46049	02/11/23 04:17	CH	EET MID

Client Sample ID: SW-6-5-0-11'-20231602
Date Collected: 02/16/23 10:20
Date Received: 02/17/23 13:25

Lab Sample ID: 880-24885-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	46605	02/17/23 14:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46568	02/18/23 01:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46748	02/20/23 14:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46793	02/20/23 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46595	02/17/23 17:15	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46617	02/18/23 12:39	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46601	02/17/23 13:45	KS	EET MID
Soluble	Analysis	300.0		1			46610	02/17/23 16:33	CH	EET MID

Client Sample ID: SW-7-5-6-11'-20231602
Date Collected: 02/16/23 10:30
Date Received: 02/17/23 13:25

Lab Sample ID: 880-24885-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	46605	02/17/23 14:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46568	02/18/23 01:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46748	02/20/23 14:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46793	02/20/23 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46595	02/17/23 17:15	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46617	02/18/23 13:01	AJ	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-7-5-6-11'-20231602
Date Collected: 02/16/23 10:30
Date Received: 02/17/23 13:25

Lab Sample ID: 880-24885-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	46601	02/17/23 13:45	KS	EET MID
Soluble	Analysis	300.0		1			46610	02/17/23 16:51	CH	EET MID

Client Sample ID: SW-8-5-6-11'-20231602
Date Collected: 02/16/23 10:40
Date Received: 02/17/23 13:25

Lab Sample ID: 880-24885-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	46605	02/17/23 14:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46568	02/18/23 02:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46748	02/20/23 14:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46793	02/20/23 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46595	02/17/23 17:15	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46617	02/18/23 13:22	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46601	02/17/23 13:45	KS	EET MID
Soluble	Analysis	300.0		1			46610	02/17/23 16:57	CH	EET MID

Client Sample ID: B-4-5-11'-20231602
Date Collected: 02/16/23 10:50
Date Received: 02/17/23 13:25

Lab Sample ID: 880-24885-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	46605	02/17/23 14:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46568	02/18/23 02:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46748	02/20/23 14:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46793	02/20/23 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46595	02/17/23 17:15	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46617	02/18/23 13:44	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46601	02/17/23 13:45	KS	EET MID
Soluble	Analysis	300.0		1			46610	02/17/23 17:16	CH	EET MID

Client Sample ID: B-6-5-11'-20231602
Date Collected: 02/16/23 11:00
Date Received: 02/17/23 13:25

Lab Sample ID: 880-24885-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	46605	02/17/23 14:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46568	02/18/23 02:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46748	02/20/23 14:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46793	02/20/23 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46595	02/17/23 17:15	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46617	02/18/23 14:06	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46601	02/17/23 13:45	KS	EET MID
Soluble	Analysis	300.0		1			46610	02/17/23 17:22	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-5-5-0-6'-20231602
Lab Sample ID: 880-24885-6
Date Collected: 02/16/23 15:15
Matrix: Solid
Date Received: 02/17/23 13:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	46605	02/17/23 14:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46568	02/18/23 03:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46748	02/20/23 14:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46793	02/20/23 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46595	02/17/23 17:15	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46617	02/18/23 14:28	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46601	02/17/23 13:45	KS	EET MID
Soluble	Analysis	300.0		1			46610	02/17/23 17:28	CH	EET MID

Client Sample ID: SW-5B-5-0-6'-20230221
Lab Sample ID: 880-25049-1
Date Collected: 02/21/23 16:00
Matrix: Solid
Date Received: 02/22/23 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	46948	02/22/23 14:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/23/23 01:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47060	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47024	02/23/23 12:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46938	02/22/23 10:31	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46917	02/22/23 12:17	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46930	02/22/23 13:00	KS	EET MID
Soluble	Analysis	300.0		1			46980	02/22/23 23:27	CH	EET MID

Client Sample ID: SW-6B-5-0-11'-20230221
Lab Sample ID: 880-25049-2
Date Collected: 02/21/23 12:00
Matrix: Solid
Date Received: 02/22/23 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	46948	02/22/23 14:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/23/23 02:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47060	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47024	02/23/23 11:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46937	02/22/23 10:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46917	02/22/23 13:22	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46930	02/22/23 13:00	KS	EET MID
Soluble	Analysis	300.0		1			46980	02/22/23 23:32	CH	EET MID

Client Sample ID: SW-7B-5-0-11'-20230221
Lab Sample ID: 880-25049-3
Date Collected: 02/21/23 12:10
Matrix: Solid
Date Received: 02/22/23 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	46948	02/22/23 14:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/23/23 02:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47060	02/23/23 12:26	AJ	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-7B-5-0-11'-20230221
Date Collected: 02/21/23 12:10
Date Received: 02/22/23 09:39

Lab Sample ID: 880-25049-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47024	02/23/23 11:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46937	02/22/23 10:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46917	02/22/23 13:44	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46930	02/22/23 13:00	KS	EET MID
Soluble	Analysis	300.0		1			46980	02/22/23 23:37	CH	EET MID

Client Sample ID: C-1--5-0-6' 20230131
Date Collected: 01/30/23 14:30
Date Received: 01/31/23 16:12

Lab Sample ID: 890-4002-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	45234	02/02/23 09:15	KS	EET MID
Soluble	Analysis	300.0		1			45416	02/03/23 16:47	CH	EET MID

Client Sample ID: TP-1-5-6'- 20230702
Date Collected: 02/07/23 14:30
Date Received: 02/07/23 16:33

Lab Sample ID: 890-4055-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	46300	02/14/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46358	02/15/23 11:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46435	02/15/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			46213	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45928	02/09/23 17:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/12/23 19:31	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45893	02/09/23 12:46	KS	EET MID
Soluble	Analysis	300.0		1			45906	02/09/23 15:05	CH	EET MID

Client Sample ID: TP-1-5-8'-20230702
Date Collected: 02/07/23 15:00
Date Received: 02/07/23 16:33

Lab Sample ID: 890-4055-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	46300	02/14/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46358	02/15/23 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46435	02/15/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			46213	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45928	02/09/23 17:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/12/23 19:53	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	45893	02/09/23 12:46	KS	EET MID
Soluble	Analysis	300.0		1			45906	02/09/23 15:19	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Client Sample ID: SW-1-5-0-4-20230702

Lab Sample ID: 890-4055-3
Matrix: Solid
Date Collected: 02/07/23 15:30
Date Received: 02/07/23 16:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	46300	02/14/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46358	02/15/23 12:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46435	02/15/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			46213	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45928	02/09/23 17:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/12/23 20:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	45893	02/09/23 12:46	KS	EET MID
Soluble	Analysis	300.0		1			45906	02/09/23 15:42	CH	EET MID

Client Sample ID: B-1-5-6'-20230802

Lab Sample ID: 890-4068-1
Matrix: Solid
Date Collected: 02/08/23 10:00
Date Received: 02/08/23 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	45966	02/10/23 10:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45954	02/10/23 23:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46229	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			46181	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46071	02/12/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/13/23 01:18	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45964	02/10/23 09:03	KS	EET MID
Soluble	Analysis	300.0		1			45984	02/10/23 14:32	CH	EET MID

Client Sample ID: B-2-5-6'-20230802

Lab Sample ID: 890-4068-2
Matrix: Solid
Date Collected: 02/08/23 10:20
Date Received: 02/08/23 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	45966	02/10/23 10:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45954	02/10/23 23:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46229	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			46181	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46071	02/12/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/13/23 01:39	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45964	02/10/23 09:03	KS	EET MID
Soluble	Analysis	300.0		1			45984	02/10/23 14:36	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw CTB

Job ID: 890-4068-1
SDG: 88001628

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-24604-1	SW-2-5-6'-20230902	Solid	02/09/23 10:50	02/10/23 16:53	
880-24604-2	SW-3-5-6'-20230902	Solid	02/09/23 12:00	02/10/23 16:53	
880-24604-3	SW-4-5-6'-20230902	Solid	02/09/23 12:10	02/10/23 16:53	
880-24604-4	B-5-5-6'-20230902	Solid	02/09/23 14:20	02/10/23 16:53	
880-24604-5	B-3-5-6'-20230902	Solid	02/09/23 14:30	02/10/23 16:53	
880-24885-1	SW-6-5-0-11'-20231602	Solid	02/16/23 10:20	02/17/23 13:25	
880-24885-2	SW-7-5-6-11'-20231602	Solid	02/16/23 10:30	02/17/23 13:25	
880-24885-3	SW-8-5-6-11'-20231602	Solid	02/16/23 10:40	02/17/23 13:25	
880-24885-4	B-4-5-11'-20231602	Solid	02/16/23 10:50	02/17/23 13:25	
880-24885-5	B-6-5-11'-20231602	Solid	02/16/23 11:00	02/17/23 13:25	
880-24885-6	SW-5-5-0-6'-20231602	Solid	02/16/23 15:15	02/17/23 13:25	
880-25049-1	SW-5B-5-0-6'-20230221	Solid	02/21/23 16:00	02/22/23 09:39	
880-25049-2	SW-6B-5-0-11'-20230221	Solid	02/21/23 12:00	02/22/23 09:39	
880-25049-3	SW-7B-5-0-11'-20230221	Solid	02/21/23 12:10	02/22/23 09:39	
890-4002-12	C-1--5-0-6' 20230131	Solid	01/30/23 14:30	01/31/23 16:12	
890-4055-1	TP-1-5-6'- 20230702	Solid	02/07/23 14:30	02/07/23 16:33	6
890-4055-2	TP-1-5-8'-20230702	Solid	02/07/23 15:00	02/07/23 16:33	8
890-4055-3	SW-1-5-0-4-20230702	Solid	02/07/23 15:30	02/07/23 16:33	4
890-4068-1	B-1-5-6'-20230802	Solid	02/08/23 10:00	02/08/23 16:01	
890-4068-2	B-2-5-6'-20230802	Solid	02/08/23 10:20	02/08/23 16:01	

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Daniel.McGee@Arcadis.com	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-5079-622.3
Client Contact: Justin Nixon	Phone: 432-999-2980	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: ~~Page 3 of 3~~ 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 24 hr Rush on all Analysis			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin.Nixon@arcadis.com, Scott.Ford@Arcadis.com, Daniel	WO #:			
Project Name: Chevron Old Indian Draw CTB	Project #: 88001628			
Site: Eddy County	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS / MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
B-1-S-6'-20230802	2-8-23	1000	C	Solid			X	X	X		1	
B-2-S-6'-20230802	2-8-23	1020	C	Solid			X	X	X		1	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
		DM	2-8-23	Solid								

890-4068 Chain of Custody

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 2-8-23 / 1600	Company: Arcadis	Received by:	Date/Time:	Company
Relinquished by: Amanda Stef	Date/Time: 2.8.23 1601	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4 4/4.2 IR-507 -0.2

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 890-4068-1
SDG Number: 88001628

Login Number: 4068
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 890-4068-1
SDG Number: 88001628

Login Number: 4068
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 02/10/23 11:50 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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	

Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
Houston
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Phone: 713 953 4800
Fax: 713 977 4620
www.arcadis.com

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

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

CONDITIONS

Action 215500

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 215500
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2216550789 OLD INDIAN DRAW CTB, thank you. This closure is approved.	10/2/2023