



Chevron U.S.A., Inc.

2023 Remediation Summary and Soil Closure Request Report

Old Indian Draw Unit 001

**Incident #'s NKMW1105550129 (2RP-611),
NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-
2104), and NAB1433953640 (2RP-2644)**

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Old Indian Draw Unit 001 Soil Closure Report_2.16.24_Final

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2023 Remediation Summary and Soil Closure Request Report

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 Unit #001 (Site).

2 Project Summary

The Site is located approximately 8-miles southeast of the City of Carlsbad in Unit Letter J, Section 18, Township 22 South, Range 28 East. Old Indian Draw Unit #001 Site is a restored former well pad and tank battery characterized with numerous active and inactive underground utilities that transect the Site as of October 31, 2023. 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 site location map is depicted on **Figure 1**.

Four open incident numbers are associated with the Site. While environmental records suggest limited remediation activities were conducted at the Site, the incidents were not closed prior to restoring the well pad and tank battery facility. The following Incident numbers associated with the Old Indian Draw Unit #001 Site are being assessed concurrently:

1. Incident No: NKMW1105550129 (2RP-611) – listed under Chesapeake Operating, Inc.
On February 17, 2011, an equipment failure caused a release of approximately 70 barrels (bbls) of produced water, of which 60 bbls of produced water were recovered. The Initial C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) on February 18, 2011, and assigned remediation permit number 2RP-611.
2. Incident No: NMLB1226438559 (2RP-1297) – listed under Chesapeake Operating, Inc.
On August 20, 2012, an equipment failure caused a release of approximately 300 bbls of produced water, of which 170 bbls of produced water were recovered. The Initial C-141 Form was submitted to the NMOCD on September 10, 2012, and assigned remediation permit number 2RP-1297.
3. Incident No: NJMW1334440905 (2RP-2104) – listed under Chesapeake Operating, Inc.
On December 2, 2013, an equipment failure caused a release of approximately 80 bbls of produced water, of which 60 bbls of produced water were recovered. The Initial C-141 Form was submitted to the NMOCD on December 6, 2013, and assigned remediation permit number 2RP-2104. This location is included in the November 2018 Ongoing Corrective Actions/Remediations Agreed Compliance Order-Releases (ACO) between Chevron and NMOCD.
4. Incident No: NAB1433953640 (2RP-2644) – listed under Chevron U.S.A. Inc.
On October 18, 2014, a release of approximately 13 bbls of produced water and oil was reported, of which 11 bbls of produced water and oil were recovered. The Initial C-141 Form was submitted to the NMOCD on December 3, 2014, and assigned remediation permit number 2RP-2644. This location is included in the November 2018 Ongoing Corrective Actions/Remediations ACO between Chevron and NMOCD.

The four Initial C-141 Forms for this Site are included in **Appendix A**.

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3 Soil and Groundwater Assessment Summary

On August 17-19, 2021, Larson & Associates, Inc. (Larson) conducted an initial assessment at the Site. During the initial assessment, soil samples were collected at depths ranging from 3 to 20 feet below ground surface (bgs) at 16 locations (S-1 through S-16) utilizing air rotary drilling methods. The collected soil samples were submitted to the laboratory for analysis of chloride; benzene, toluene, ethylbenzene, and xylenes (BTEX); and total petroleum hydrocarbons (total TPH).

Laboratory analytical results indicated BTEX and total TPH concentrations were below the applicable laboratory method detection limits (MDLs) for BTEX and total TPH constituents in each of the submitted soil samples with the exception of minor detections for TPH (C12-C28 range) at a depth of 1 foot bgs at S-2 (182 milligrams per kilogram (mg/kg)), total TPH at S-5 at 1 foot bgs (57.1 mg/kg), benzene (0.00515 mg/kg) and BTEX (0.0117 mg/kg) at S-7 at 1 foot bgs, and benzene (0.00437 mg/kg) and BTEX (0.00435 mg/kg and 0.0102 mg/kg) at S-13 at depths of 1 to 3 feet bgs. Vertical delineation in soil for BTEX and TPH constituents was achieved at all sampling locations. Analytical results indicated chloride concentrations ranged from 8.62 mg/kg in soil sample S-15 at 1-foot bgs to 13,600 mg/kg in soil sample S-8 at 10 feet bgs.

On March 8, 2022, Larson revisited the Site in an effort to further characterize chloride impacts. During the Site visit, an air rotary drill rig was utilized to install investigative soil borings proximate to 6 of the previously drilled locations characterized by soil samples that were above the NMOCD regulatory limit of 600 mg/kg for chloride (S-3, S-7, S-8, S-9, S-10, and S-12). The 6 borings were installed at depths ranging from 15 feet bgs to approximately 45 feet bgs. Soil borings S-7 and S-8 were installed in the center of the pad to approximately 45 feet bgs. Larson's assessment activities confirmed chloride impact to soil to depths of approximately 45 feet bgs in the areas characterized by soil borings S-7 and S-8, indicating potential groundwater impact from chloride. No detections for BTEX or TPH were reported in any soil samples collected from the 16 locations during this subsequent soil assessment.

Arcadis began additional soil assessment activities across the former pad area on January 23, 2023, utilizing a stainless-steel hand auger. During soil assessment activities, a resilient rock layer was encountered at depths ranging from approximately 1-foot to 2.5-feet bgs at all boring locations.

Arcadis collected 62 soil samples (G-1 through G-62) in an approximate grid pattern across the former pad area at depths ranging from approximately six inches bgs to 2 feet bgs in an effort to further characterize the horizontal extent of chloride impacts at the Site. The collected soil samples were field screened for evaluation of estimated concentrations of chloride. Select soil samples that field screened below applicable screening limits for chloride (600 mg/kg) were submitted for analytical confirmation to Eurofins/Xenco Laboratories in Midland, Texas for BTEX, total TPH and chloride analyses. The collection of soil samples from deeper intervals was precluded due to the presence of a resilient calcrete rock layer at all sample locations.

On February 13, 2023, Arcadis oversaw the installation of a temporary monitoring well at the Old Indian Draw Unit 001 Site. The temporary monitoring well was installed in the center of the pad approximately 10 feet northeast of the southern wellhead P&A marker at the Site. During the installation of the temporary monitoring well, soil samples were collected from select intervals for laboratory analysis of chloride, BTEX and total TPH. Laboratory analytical results from soil samples collected during the installation of the temporary monitoring well indicated chloride concentrations above applicable NMOCD screening criteria in soil extend to the groundwater bearing unit encountered at approximately 46 feet bgs. BTEX and total TPH concentrations were below the applicable laboratory MDLs in all soil samples analyzed for those constituents with the exception of a TPH Gasoline Range

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Organic (GRO C6-C10) detection at an estimated concentration of 31.1 mg/kg at a depth of approximately 5 feet bgs.

On February 13, 2023, the temporary monitoring well was developed utilizing Environmental Protection Agency (EPA) Standard Methods. Following development activities on the temporary monitoring well, a groundwater sample was collected and submitted to the laboratory for analysis of chloride, total dissolved solids (TDS), and BTEX concentrations. Laboratory analytical results indicated chloride and TDS concentrations were above the New Mexico Environment Department Water Quality Control Commission (NMWQCC) Groundwater Standards of 250 milligrams per liter (mg/L) for chloride and 1,000 mg/L for TDS. Chloride was reported at 10,400 mg/L and TDS was reported at 15,100 mg/L. BTEX constituents were not detected in groundwater above laboratory MDLs.

One additional test trench (S-1) was installed with an excavator down to approximately 2 feet bgs (the top of the calcrete rock layer) northeast of the pad area on February 22, 2023, to further horizontal delineation of chloride impact to soil. Two soil samples were collected from S-1 at depths of 1-foot bgs and 2 feet bgs and were reported with chloride concentrations of 73.1 mg/kg and 357 mg/kg, respectively.

Evaluation of soil data collected to date confirmed horizontal delineation of the release area was accomplished in conjunction with the initial Larson soil assessment activities conducted in 2021 and 2022. Groundwater impacts will be further evaluated and an Abatement Plan per NMAC 19.15.30 is anticipated to be submitted to NMOCD for the Site.

Analytical results from the soil assessments, groundwater analytical results from groundwater samples collected from the temporary monitoring well, and associated laboratory analytical reports are included in the approved Variance Request in **Appendix C**.

4 Closure Criteria for Soils Impacted by a Release

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

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

5 Remediation Activities Summary

5.1 Soil Removal

Soil remediation activities (excavation) were performed by Arcadis and eTECH Environmental and Safety (eTECH) from May 22 through July 13, 2023. PID readings, chloride field screening utilizing Hach® test strip results, and

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analytical results from the assessment activities were evaluated assuming the most stringent NMOCD closure criteria for soil prior to and during remediation activities to determine the horizontal and vertical extent of soil affected by the releases.

The release area covered an approximate 136,500 square foot area along the lease road and within the historical pad area. Excavation activities were conducted to a maximum depth of approximately 2 feet bgs within the release area due to encountering base rock at those depths. Repeated attempts to break through the resilient base rock layer utilizing an excavator equipped with a trenching bucket and “rock teeth” yielded limited results. As such, excavation activities were halted, and a Variance Request was submitted to NMOCD and BLM for approval.

5.2 Variance Request Submittal

A Variance Request was submitted to the NMOCD on April 18, 2023, requesting approval to cease further excavation activities within the release area and to subsequently line the excavated area prior to backfilling. The Variance Request was approved by NMOCD on July 14, 2023. The approved site remediation activities and associated stipulations are outlined in the Variance Request attached in **Appendix C**.

At this time, approximately 8,232 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. Copies of disposal manifests can be provided upon request.

5.3 Excavation Confirmation Sampling Activities

Following the initial termination of excavation activities, Arcadis personnel conducted excavation confirmation soil sampling activities on July 14 through August 4, 2023 for laboratory analysis to document BTEX, Total TPH, and chloride concentrations in soil within the sidewalls and base of the excavation area. These activities included collection of a total of 273 composite base samples (B-1 through B-273) and 8 composite sidewall samples (SW-1 through SW-8A). Five composite sidewall samples (SW-2, SW-3, SW-4, SW-7 and SW-8) were determined to have Total TPH concentrations greater than the applicable NMAC standards specified within 19.15.29. Additional soil was excavated from those areas and five additional composite sidewall samples (SW-2A, SW-3A, SW-4A, SW-7A and SW-8A) were collected for laboratory analyses.

All composite samples were collected at intervals to maintain an approximate 500 square foot sample space or less as approved in the attached variance found in **Appendix C**.

The soil confirmation soil samples were collected in four-ounce jars provided by Eurofins located in Midland, Texas, then placed on ice and shipped to Eurofins 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 3-1** through **Figure 3-9**. Laboratory analytical reports are included in **Appendix E**.

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5.4 Chloride

212 of the 273 composite confirmation soil samples collected within the base of excavated area were above the NMAC reclamation limit of 600 mg/kg following remediation activities. Chloride concentrations exceeding the NMAC reclamation limit remaining in-situ ranged from 610 mg/kg to 19,700 mg/kg. No sidewall samples exceeded the reclamation limit following excavation activities.

5.5 TPH

163 of the 273 composite confirmation soil samples collected within the base of excavated area were above the NMAC reclamation limit of 100 mg/kg following remediation activities. Total TPH concentrations exceeding the NMAC reclamation limit remaining in-situ ranged from 102 mg/kg to 14,900 mg/kg. No sidewall samples exceeded the reclamation limit following excavation activities.

5.6 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.

5.7 Soil Amendments and Liner Installation

Following excavation activities and approval of the Variance Request from NMOCD, a layer of gypsum was applied to the base of the excavation area to inhibit the downward migration of chloride remaining in-situ. A geosynthetic liner was installed above the gypsum layer and an additional layer of gypsum was installed atop the liner to prohibit potential upward migration of chloride remaining in-situ to further support revegetation of the remediated area as approved in the Variance Request.

Photographic documentation of all excavation activities is attached in the **Appendix D**.

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 laterally and excavated to the extent possible vertically down to the base rock layer, the lined 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. The excavated area within the affected pasture was topped with a topsoil similar to native surrounding pasture material and reseeded with a BLM-approved seed mixture on September 20, 2023.

7 Summary

Analytical results for remediation activities conducted in 2023 indicate that the horizontal and vertical extent of chloride, total 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. Impacted soil above the applicable

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NMAC Closure Criteria has been excavated from the release area horizontally and removed vertically to the base rock layer as stipulated in the approved Variance Request. Soil amendments and a geosynthetic liner were installed prior to backfilling the excavation area as stipulated in the approved Variance Request.

8 Soil Closure Request

Remediation activities were conducted in accordance with the NMOCD regulatory guidelines stipulated in NMAC 19.15.29 and an approved Variance Request. 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, Total TPH and chloride are below the NMOCD Closure Criteria in each of the submitted soil sidewall samples collected from the remediated area. Soil amendments (gypsum) and a geosynthetic liner were installed within the base of the excavation area as stipulated in the approved Variance Request.

Based on laboratory analytical results and field activities conducted to date, no additional soil assessment or soil remediation activities are recommended at this time for the Site. Arcadis requests closure associated with soil impact at the Site be granted to the Old Indian Draw Unit #001 Site for Incident ID number's NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644). The Final C-141 Form is included as **Appendix B**.

Tables

Table 1
2023 Soil Analytical Results
Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico

Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene 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 Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-001	2	07/14/2023	B-1-S-2'-20230714	In-Situ	<0.000394	<0.000467	<0.000579	<0.00103	0.000369J	<0.00103	<0.00103	<15.4	19.4J	<15.4	19.4J	754F1
B-002	2	07/14/2023	B-2-S-2'-20230714	In-Situ	<0.000401	<0.000475	<0.000589	<0.00105	<0.000359	<0.00105	<0.00105	<15.4	65.9	29.0J	94.9	314
B-003	2	07/14/2023	B-3-S-2'-20230714	In-Situ	<0.000408	<0.000484	<0.000599	<0.00107	<0.000365	<0.00107	<0.00107	<15.7	20.8J	<15.7	20.8J	696
B-004	2	07/14/2023	B-4-S-2'-20230714	In-Situ	<0.000395	<0.000468	<0.000580	<0.00104	<0.000353	<0.00104	<0.00104	<15.6	44.4J	16.4J	60.8	713
B-005	2	07/14/2023	B-5-S-2'-20230714	In-Situ	<0.000400	0.000533J	0.000649J	<0.00105	0.000575J	<0.00105	0.00176J	<15.8	204	<15.8	204	872
B-006	2	07/14/2023	B-6-S-2'-20230714	In-Situ	<0.000398	<0.000471	<0.000584	<0.00104	<0.000356	<0.00104	<0.00104	<15.3	830	<15.3	830	834
B-007	2	07/14/2023	B-7-S-2'-20230714	In-Situ	<0.000400	<0.000474	<0.000587	<0.00105	<0.000358	<0.00105	<0.00105	<15.5	106	43.5J	150	1400
B-008	2	07/14/2023	B-8-S-2'-20230714	In-Situ	<0.000392	<0.000464	<0.000575	<0.00103	0.000543J	<0.00103	<0.00103	<15.5	25.9J	<15.5	25.9J	755
B-009	2	07/14/2023	B-9-S-2'-20230714	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	<15.4	32.1J	<15.4	32.1J	3260
B-010	2	07/14/2023	B-10-S-2'-20230714	In-Situ	<0.000393	<0.000466	0.000605J	<0.00103	0.000444J	<0.00103	0.00105J	<15.2	155	<15.2	155	6780
B-011	2	07/14/2023	B-11-S-2'-20230714	In-Situ	<0.000397	0.000948J	<0.000582	<0.00104	0.000414J	<0.00104	0.00136J	<15.4	133	<15.4	133	2090F1
B-012	2	07/14/2023	B-12-S-2'-20230714	In-Situ	<0.000395	0.000638J	<0.000579	<0.00104	<0.000353	<0.00104	<0.00104	<15.1	82.5	<15.1	82.5	2910
B-013	2	07/14/2023	B-13-S-2'-20230714	In-Situ	<0.000389	0.000507J	0.000612J	<0.00102	<0.000347	<0.00102	0.00112J	<15.1	185	<15.1	185	912
B-014	2	07/14/2023	B-14-S-2'-20230714	In-Situ	<0.000386	0.000712J	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	<15.2	169	<15.2	169	1680
B-015	2	07/14/2023	B-15-S-2'-20230714	In-Situ	<0.000389	0.000503J	<0.000570	<0.00102	0.000369J	<0.00102	<0.00102	<15.3	243	<15.3	243	1140
B-016	2	07/14/2023	B-16-S-2'-20230714	In-Situ	<0.000393	0.000598J	<0.000576	<0.00103	0.000409J	<0.00103	<0.00103	<15.4	148	<15.4	148	767
B-017	2	07/14/2023	B-17-S-2'-20230714	In-Situ	<0.000395	<0.000467	0.000711J	<0.00104	0.000358J	<0.00104	0.00107J	<15.2	149	<15.2	149	412
B-018	2	07/14/2023	B-18-S-2'-20230714	In-Situ	<0.000390	<0.000462	<0.000573	<0.00102	0.000350J	<0.00102	<0.00102	<15.1	125	<15.1	125	533
B-019	2	07/14/2023	B-19-S-2'-20230714	In-Situ	<0.000391	<0.000463	0.000636J	<0.00103	0.000387J	<0.00103	<0.00103	<15.1	84.6	<15.1	84.6	92.0
B-020	2	07/14/2023	B-20-S-2'-20230714	In-Situ	<0.000391	<0.000463	0.000633J	<0.00103	<0.000350	<0.00103	<0.00103	<15.4	25.6J	<15.4	25.6J	185
B-021	2	07/14/2023	B-21-S-2'-20230714	In-Situ	0.000428J	0.00205	<0.000566	0.00112J	0.000458J	0.00158J	0.00406	<15.2	86.7	<15.2	86.7	465
B-022	2	07/14/2023	B-22-S-2'-20230714	In-Situ	<0.000394	0.00294	<0.000578	0.00151J	0.000443J	0.00195J	0.00489	<15.1	28.7J F1	<15.1	28.7J	282
B-023	2	07/14/2023	B-23-S-2'-20230714	In-Situ	<0.000391	0.00243	<0.000574	0.00128J	0.000475J	0.00176J	0.00419	<15.1	103	<15.1	103	571
B-024	2	07/14/2023	B-24-S-2'-20230714	In-Situ	<0.000392	0.00119J	<0.000576	<0.00103	<0.000350	<0.00103	0.00119J	<15.1	64.5	<15.1	64.5	2100
B-025	2	07/14/2023	B-25-S-2'-20230714	In-Situ	<0.000393	0.00208	<0.000577	<0.00103	0.000351J	<0.00103	0.00243J	<15.3	209	<15.3	209	1240
B-026	2	07/14/2023	B-26-S-2'-20230714	In-Situ	<0.000390	0.00109J	<0.000572	<0.00102	<0.000348	<0.00102	0.00109J	<15.3	269	<15.3	269	415
B-027	2	07/14/2023	B-27-S-2'-20230714	In-Situ	<0.000393	0.00180J	<0.000577	<0.00103	0.000369J	<0.00103	0.00217J	<15.4	157	<15.4	157	3700
B-028	2	07/14/2023	B-28-S-2'-20230714	In-Situ	0.000441J	0.00376	0.000763J	0.00216J	0.000763J	0.00292J	0.00789	<15.4	37.3J	<15.4	37.3J	2710
B-029	2	07/14/2023	B-29-S-2'-20230714	In-Situ	<0.000394	0.00314	<0.000579	0.00125J	0.000481J	0.00173J	0.00487	<15.3	364	<15.3	364	3690
B-030	2	07/17/2023	B-30-S-2'-20230717	In-Situ	0.000406J B	<0.000462	<0.000572	<0.00102	<0.000349	<0.00102	<0.00102	<15.3	85.7	<15.3	85.7	1090
B-031	2	07/17/2023	B-31-S-2'-20230717	In-Situ	<0.000395	<0.000468	<0.000580	<0.00104	<0.000353	<0.00104	<0.00104	<15.4	92.5	<15.4	92.5	610
B-031	2	07/20/2023	B-31-S-2'-20230720	In-Situ	0.000546J	0.00216	0.000629J	0.00169J	0.000616J	0.00231J	0.00564	39.4J	289*1	31.6J	360	997
B-032	2	07/17/2023	B-32-S-2'-20230717	In-Situ	0.000553J B	<0.000467	<0.000578	<0.00103	<0.000352	<0.00103	<0.00103	<15.4	113	<15.4	113	1090
B-032	2	07/20/2023	B-32-S-2'-20230720	In-Situ	0.000577J	0.00138J	0.000641J	0.00155J	0.000509J	0.00206J	0.00466	20.9J	573*1	52.1	646	957
B-033	2	07/17/2023	B-33-S-2'-20230717	In-Situ	<0.000397	<0.000471	<0.000583	<0.00104	<0.000355	<0.00104	<0.00104	<15.3	178	<15.3	178	2280
B-033	2	07/20/2023	B-33-S-2'-20230720	In-Situ	0.000498J	0.000862J	<0.000570	0.00137J	0.000496J	0.00187J	0.00323J	30.0J	91.6*1	<14.9	122	1450
B-034	2	07/17/2023	B-34-S-2'-20230717	In-Situ	<0.000389	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	<15.2	227	<15.2	227	1600
B-034	2	07/20/2023	B-34-S-2'-20230720	In-Situ	0.000427J	0.00147J	0.000577J	0.00156J	0.000554J	0.00211J	0.00459	27.6J	120*1	<15.0	148	631
B-035	2	07/17/2023	B-35-S-2'-20230717	In-Situ	<0.000508	<0.000602	<0.000746	<0.00133	<0.000454	<0.00133	<0.00133	<19.9	20.1J	<19.9	20.1J	544
B-035	2	07/20/2023	B-35S-2'-20230720	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	35.9J	85.3*1	<14.9	121	681
B-036	2	07/17/2023	B-36-S-2'-20230717	In-Situ	<0.000395	<0.000468	<0.000580	<0.00104	<0.000353	<0.00104	<0.00104	<15.6	141	<15.6	141	2380

Table 1
2023 Soil Analytical Results
Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico



Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene 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 Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-037	2	07/17/2023	B-37-S-2'-20230717	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	<15.3	249	<15.3	249	1740
B-038	2	07/17/2023	B-38-S-2'-20230717	In-Situ	<0.000435	<0.000515	<0.000638	<0.00114	<0.000389	<0.00114	<0.00114	<16.7	85.6	<16.7	85.6	954
B-039	2	07/17/2023	B-39-S-2'-20230717	In-Situ	0.000577J B	<0.000463	<0.000574	<0.00103	<0.000349	<0.00103	<0.00103	<15.1	187	<15.1	187	1940
B-040	2	07/17/2023	B-40-S-2'-20230717	In-Situ	0.000419J B	<0.000462	<0.000572	<0.00102	<0.000348	<0.00102	<0.00102	<15.3	266	<15.3	266	1170
B-041	2	07/17/2023	B-41S-2'-20230717	In-Situ	<0.000387	<0.000458	<0.000568	<0.00102	<0.000346	<0.00102	<0.00102	<15.1	170	<15.1	170	1330
B-042	2	07/17/2023	B-42-S-2'-20230717	In-Situ	0.000457J B	<0.000467	<0.000579	<0.00103	<0.000352	<0.00103	<0.00103	<15.5	91.0	<15.5	91.0	2690
B-043	2	07/17/2023	B-43-S-2'-20230717	In-Situ	0.000577J B	<0.000597	<0.000739	<0.00132	<0.000450	<0.00132	<0.00132	36.7J B	23.8J B	<19.9	60.5J	355
B-044	2	07/17/2023	B-44-S-2'-20230717	In-Situ	0.000403J B	<0.000459	<0.000568	<0.00102	<0.000346	<0.00102	<0.00102	25.9J B	60.9B	<15.3	86.8	538
B-045	2	07/17/2023	B-45-S-2'-20230717	In-Situ	0.000402J B	<0.000467	<0.000579	<0.00103	<0.000352	<0.00103	<0.00103	29.2J B	111B	<15.3	140	1400
B-046	2	07/17/2023	B-46-S-2'-20230717	In-Situ	0.000707J B	<0.000613	<0.000760	<0.00136	<0.000463	<0.00136	<0.00136	41.3J B	41.0J B	<20.0	82.3	407
B-047	2	07/17/2023	B-47-S-2'-20230717	In-Situ	0.000430J B	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	19.1J B	183B	<15.3	202	984
B-048	2	07/17/2023	B-48-S-2'-20230717	In-Situ	0.000397J B	<0.000463	<0.000573	<0.00103	<0.000349	<0.00103	<0.00103	25.6J B	191B	<15.3	217	1450
B-049	2	07/17/2023	B-49-S-2'-20230717	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	<15.4	174B	<15.4	174	2850
B-050	2	07/17/2023	B-50-S-2'-20230717	In-Situ	<0.000518	0.000779J	<0.000760	<0.00136	0.000833J	<0.00136	0.00161J	20.2J B	28.0J B	<20.2	48.2J	478F1
B-051	2	07/17/2023	B-51-S-2'-20230717	In-Situ	<0.000398	0.000573J	<0.000583	<0.00104	<0.000355	<0.00104	<0.00104	17.1J B	446B	<15.3	463	322
B-052	2	07/17/2023	B-52-S-2'-20230717	In-Situ	<0.000393	0.000710J	<0.000577	<0.00103	0.000498J	<0.00103	0.00121J	<15.4	197B	<15.4	197	1330
B-053	2	07/17/2023	B-53-S-2'-20230717	In-Situ	<0.000393	0.000840J	0.000577J	<0.00103	<0.000351	<0.00103	0.00142J	<15.4	91.1B	<15.4	91.1	1020
B-054	2	07/17/2023	B-54-S-2'-20230717	In-Situ	<0.000400	<0.000473	<0.000586	<0.00105	<0.000357	<0.00105	<0.00105	46.1J B	82.1B	<15.3	128	1160
B-055	2	07/17/2023	B-55-S-2'-20230717	In-Situ	<0.000390	0.000742J	<0.000572	<0.00102	<0.000348	<0.00102	<0.00102	21.5J B	153B	<15.1	175	1540
B-056	2	07/17/2023	B-56-S-2'-20230717	In-Situ	<0.000385	0.000963J	<0.000565	<0.00101	0.000426J	<0.00101	0.00139J	44.3J B	210B	<15.1	254	698
B-057	2	07/17/2023	B-57-S-2'-20230717	In-Situ	<0.000488	0.000698J	<0.000716	<0.00128	<0.000436	<0.00128	<0.00128	26.1J B	43.4J B	<18.7	69.5	243
B-058	2	07/17/2023	B-58-S-2'-20230717	In-Situ	0.0766J	0.0952J	<0.0615	<0.110	<0.0374	<0.110	0.172J	1890J B	13000B	<1640	14900	58400
B-059	2	07/17/2023	B-59-S-2'-20230717	In-Situ	<0.000391	<0.000463	<0.000574	<0.00103	<0.000349	<0.00103	<0.00103	20.1J B	68.3B	<15.3	88.4	504
B-060	2	07/17/2023	B-60-S-2'-20230717	In-Situ	<0.000390	0.000866J	<0.000572	<0.00102	<0.000348	<0.00102	<0.00102	20.2J B	47.3J B	<15.3	67.5	764F1
B-061	2	07/17/2023	B-61-S-2'-20230717	In-Situ	0.000413J	0.000796J	<0.000575	<0.00103	0.000409J	<0.00103	0.00162J	19.0J B	91.2B	<15.3	110	636
B-062	2	07/17/2023	B-62-S-2'-20230717	In-Situ	<0.000388	0.00104J	<0.000569	<0.00102	<0.000346	<0.00102	0.00104J	25.3J B	125B	<15.2	150	1840
B-063	2	07/17/2023	B-63-S-2'-20230717	In-Situ	<0.000387	<0.000459	<0.000568	<0.00102	<0.000346	<0.00102	<0.00102	25.8J	322	44.0J	392	1160
B-064	2	07/17/2023	B-64-S-2'-20230717	In-Situ	<0.000395	0.000722J	<0.000580	<0.00104	<0.000353	<0.00104	<0.00104	25.5J	352	46.3J	424	1940
B-065	2	07/17/2023	B-65-S-2'-20230717	In-Situ	<0.000393	0.000895J	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	<15.3	177	<15.3	177	1500
B-066	2	07/17/2023	B-66-S-2'-20230717	In-Situ	<0.000391	<0.000463	<0.000574	<0.00103	<0.000350	<0.00103	<0.00103	41.2J	253	28.8J	323	2350
B-067	2	07/17/2023	B-67-S-2'-20230717	In-Situ	0.000985J	0.00344	0.000890J	<0.00104	0.000605J	<0.00104	0.00592	<15.3	137	<15.3	137	786
B-068	2	07/17/2023	B-68-S-2'-20230717	In-Situ	0.00105J	0.00163J	<0.000571	<0.00102	<0.000348	<0.00102	0.00268J	44.4J	359	40.5J	444	549
B-069	2	07/17/2023	B-69-S-2'-20230717	In-Situ	0.00110J	0.00104J	<0.000577	<0.00103	0.000486J	<0.00103	0.00263J	26.9J F1 F2	81.9F1 F2	<15.2	109	1120
B-070	2	07/17/2023	B-70-S-2'-20230717	In-Situ	<0.000438	<0.000519	<0.000643	<0.00115	<0.000391	<0.00115	<0.00115	33.0J	156	<17.2	189	2420
B-071	2	07/17/2023	B-71-S-2'-20230717	In-Situ	<0.000392	<0.000464	<0.000575	<0.00103	<0.000350	<0.00103	<0.00103	<15.2	167	20.3J	187	630
B-072	2	07/17/2023	B-72-S-2'-20230717	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	43.1J	204	21.9J	269	906
B-073	2	07/17/2023	B--73S-2'-20230717	In-Situ	<0.000390	<0.000461	<0.000572	<0.00102	<0.000348	<0.00102	<0.00102	<15.4	349	37.8J	387	1040
B-074	2	07/17/2023	B-74-S-2'-20230717	In-Situ	<0.000396	<0.000470	<0.000582	<0.00104	<0.000354	<0.00104	<0.00104	<15.2	63.5	<15.2	63.5	989
B-075	2	07/17/2023	B-75-S-2'-20230717	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	<15.2	52.4	<15.2	52.4	2140
B-076	2	07/19/2023	B-76-S-2'-20230719	In-Situ	<0.000381	<0.000451	0.000648J B	<0.00100	<0.000341	<0.00100	<0.00100	42.6J B	26.6J	<15.2	69.2	179
B-077	2	07/19/2023	B-77-S-2'-20230719	In-Situ	<0.000388	<0.000460	0.000671J B	<0.00102	<0.000347	<0.00102	<0.00102	<14.9	30.1J	<14.9	30.1J	1120

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2023 Soil Analytical Results
Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico

Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene 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 Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-078	2	07/19/2023	B-78-S-2'-20230719	In-Situ	<0.000387	<0.000458	0.000655J B	<0.00101	<0.000345	<0.00101	<0.00101	19.0J B	35.9J	<14.9	54.9	1270
B-079	2	07/19/2023	B-79-S-2'-20230719	In-Situ	<0.000386	<0.000457	0.000692J B	<0.00101	<0.000345	<0.00101	<0.00101	34.9J B	30.0J	<15.1	64.9	1360
B-080	2	07/19/2023	B-80-S-2'-20230719	In-Situ	<0.000383	<0.000453	0.000743J B	<0.00100	<0.000342	<0.00100	<0.00100	17.1J B	65.0	<15.1	82.1	2160
B-081	2	07/19/2023	B-81-S-2'-20230719	In-Situ	<0.000381	<0.000451	0.000659J B	<0.00100	<0.000341	<0.00100	<0.00100	19.8J B	33.8J	<14.9	53.6	764
B-082	2	07/19/2023	B-82-S-2'-20230719	In-Situ	<0.000383	<0.000454	0.000719J B	<0.00101	<0.000343	<0.00101	<0.00101	36.6J B	3030	209	3280	3000
B-083	2	07/19/2023	B-83-S-2'-20230719	In-Situ	<0.000385	<0.000456	0.000667J B	<0.00101	<0.000344	<0.00101	<0.00101	26.4J B	144	<15.1	170	421
B-084	2	07/19/2023	B-84-S-2'-20230719	In-Situ	<0.000382	<0.000452	0.000643J B	<0.00100	<0.000341	<0.00100	<0.00100	33.2J B	38.0J	<15.1	71.2	134
B-085	2	07/19/2023	B-85-S-2'-20230719	In-Situ	<0.000387	<0.000459	0.000648J B	<0.00102	<0.000346	<0.00102	<0.00102	44.5J B	29.0J	<15.2	73.5	92.4
B-086	2	07/19/2023	B-86-S-2'-20230719	In-Situ	<0.000389	<0.000461	0.000689J B	<0.00102	<0.000347	<0.00102	<0.00102	40.2J B	1870	122	2030	690F1
B-087	2	07/19/2023	B-87-S-2'-20230719	In-Situ	<0.000388	<0.000460	0.000655J B	<0.00102	<0.000347	<0.00102	<0.00102	36.0J B	41.2J	<14.9	77.2	93.8
B-088	2	07/19/2023	B-88-S-2'-20230719	In-Situ	<0.000386	<0.000457	0.000794J B	<0.00101	<0.000345	<0.00101	<0.00101	30.2J	22.8J B	<15.0	53.0	425
B-089	2	07/19/2023	B-89-S-2'-20230719	In-Situ	<0.000384	<0.000455	0.000704J B	<0.00101	<0.000343	<0.00101	<0.00101	19.6J	19.3J B	<14.9	38.9J	132
B-090	2	07/19/2023	B-90-S-2'-20230719	In-Situ	<0.000385	<0.000456	0.000670J B	<0.00101	<0.000344	<0.00101	<0.00101	31.9J	23.5J B	<14.9	55.4	969
B-091	2	07/19/2023	B-91-S-2'-20230719	In-Situ	<0.000381	<0.000451	0.000652J B	<0.00100	<0.000341	<0.00100	<0.00100	32.3J	22.2J B	<15.1	54.5	302
B-092	2	07/19/2023	B-92-S-2'-20230719	In-Situ	<0.000387	<0.000458	0.000661J B	<0.00101	<0.000345	<0.00101	<0.00101	21.9J	19.1J B	<15.1	41.0J	1250
B-093	2	07/19/2023	B-93-S-2'-20230719	In-Situ	<0.000388	<0.000460	0.000767J B	<0.00102	<0.000347	<0.00102	<0.00102	32.6J	20.8J B	<15.2	53.4	5930
B-094	2	07/19/2023	B-94-S-2'-20230719	In-Situ	<0.000383	<0.000453	0.000648J B	<0.00100	<0.000342	<0.00100	<0.00100	32.8J	24.1J B	<14.9	56.9	10300
B-095	2	07/19/2023	B-95-S-2'-20230719	In-Situ	<0.000381	<0.000451	0.000667J B	<0.00100	<0.000341	<0.00100	<0.00100	32.5J	23.6J B	<15.0	56.1	6360
B-096	2	07/19/2023	B-96-S-2'-20230719	In-Situ	<0.000387	<0.000459	<0.000568	<0.00102	<0.000346	<0.00102	<0.00102	31.3J	79.6B	<15.1	111	2140F1
B-097	2	07/19/2023	B-97-S-2'-20230719	In-Situ	<0.000382	<0.000452	<0.000561	<0.00100	<0.000341	<0.00100	<0.00100	30.5J	205B	<14.9	236	3140
B-098	2	07/20/2023	B-98-S-2'-20230720	In-Situ	<0.000383	0.000512J	<0.000563	<0.00101	<0.000343	<0.00101	<0.00101	23.4J *1	22.8J	<15.1	46.2J	370F1
B-099	2	07/20/2023	B-99-S-2'-20230720	In-Situ	<0.000388	0.000599J	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	26.3J *1	97.4	<15.0	124	402
B-100	2	07/20/2023	B-100-S-2'-20230720	In-Situ	<0.000386	0.000618J	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	<14.9	92.9	15.0J	108	2000
B-101	2	07/20/2023	B-101-S-2'-20230720	In-Situ	<0.000383	<0.000453	<0.000562	<0.00100	<0.000342	<0.00100	<0.00100	37.2J *1	121	17.0J	175	19700
B-102	2	07/20/2023	B-102-S-2'-20230720	In-Situ	<0.000382	0.000905J	<0.000561	<0.00100	<0.000341	<0.00100	<0.00100	20.0J *1	123	19.4J	162	12000
B-103	2	07/20/2023	B-103-S-2'-20230720	In-Situ	<0.000381	0.000484J	<0.000559	<0.00100	<0.000341	<0.00100	<0.00100	49.8J *1	52.9	<15.1	103	8190
B-104	2	07/20/2023	B-104-S-2'-20230720	In-Situ	<0.000385	0.000540J	0.000586J	<0.00101	0.000490J	<0.00101	0.00162J	31.3J *1	29.2J	<15.1	60.5	2420
B-105	2	07/20/2023	B-105-S-2'-20230720	In-Situ	0.000411J	0.000891J	<0.000567	<0.00101	<0.000345	<0.00101	0.00130J	18.7J *1	240	51.6	310	4380
B-106	2	07/20/2023	B-106-S-2'-20230720	In-Situ	0.000511J	0.00143J	<0.000570	<0.00102	0.000853J	<0.00102	0.00279J	47.3J *1	721	182	950	2790
B-107	2	07/20/2023	B-107-S-2'-20230720	In-Situ	<0.000388	0.000854J	<0.000570	<0.00102	0.000471J	<0.00102	0.00133J	27.7J *1	386	108	522	947
B-108	2	07/20/2023	B-108-S-2'-20230720	In-Situ	0.000568J	0.00154J	<0.000566	0.00124J	0.000760J	0.00200J	0.00411	35.3J *1	775	151	961	5730
B-109	2	07/20/2023	B-109-S-2'-20230720	In-Situ	0.000438J	0.00134J	<0.000563	0.00105J	0.000616J	0.00167J	0.00344J	37.4J *1	112	20.7J	170	4980
B-110	2	07/20/2023	B-110-S-2'-20230720	In-Situ	<0.000383	0.000581J	0.000574J	<0.00100	<0.000342	<0.00100	0.00116J	36.9J *1	147	25.0J	209	6730
B-111	2	07/20/2023	B-111-S-2'-20230720	In-Situ	<0.000384	0.00102J	<0.000564	<0.00101	0.000368J	<0.00101	0.00139J	27.4J *1	128	19.6J	175	7470
B-112	2	07/20/2023	B-112-S-2'-20230720	In-Situ	<0.000387	0.000699J	<0.000568	<0.00102	<0.000346	<0.00102	<0.00102	35.6J B	24.3J	<14.9	59.9	465
B-113	2	07/20/2023	B-113-S-2'-20230720	In-Situ	<0.000386	0.000556J	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	31.8J B	19.4J	<15.0	51.2	205
B-114	2	07/20/2023	B-114-S-2'-20230720	In-Situ	0.000608J	0.00117J	<0.000563	0.00114J	0.000906J	0.00205J	0.00382J	31.0J B	26.0J	<15.0	57.0	14100
B-115	2	07/20/2023	B-115-S-2'-20230720	In-Situ	<0.000381	0.00117J	<0.000559	0.00108J	0.000676J	0.00176J	0.00293J	33.1J B	46.5J	<15.1	79.6	12600
B-116	2	07/20/2023	B-116-S-2'-20230720	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	0.000489J	<0.00102	<0.00102	43.8J	37.1J *1	<15.1	80.9	5250
B-117	2	07/20/2023	B-117-S-2'-20230720	In-Situ	<0.000387	0.000745J	<0.000567	<0.00101	0.000474J	<0.00101	0.00122J	48.4J	27.2J *1	<14.9	75.6	403
B-118	2	07/20/2023	B-118-S-2'-20230720	In-Situ	<0.000383	<0.000454	<0.000563	<0.00101	<0.000343	<0.00101	<0.00101	30.0J	340*1	33.1J	403	3450

Table 1
2023 Soil Analytical Results
Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico



Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene 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 Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-119	2	07/20/2023	B-119-S-2'-20230720	In-Situ	<0.000381	<0.000451	<0.000559	<0.00100	<0.000341	<0.00100	<0.00100	30.3J	356*1	36.7J	423	3770
B-120	2	07/20/2023	B-120-S-2'-20230720	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.000345	<0.00101	<0.00101	25.7J	310*1	29.1J	365	13000
B-121	2	07/20/2023	B-121-S-2'-20230720	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	37.3J	180*1	18.6J	236	3630
B-122	2	07/20/2023	B-122-S-2'-20230720	In-Situ	<0.000383	<0.000453	<0.000562	0.00103J	0.000413J	0.00144J	0.00144J	41.9J	265*1	27.6J	335	1960
B-123	2	07/20/2023	B-123-S-2'-20230720	In-Situ	<0.000382	<0.000452	<0.000561	<0.00100	<0.000341	<0.00100	<0.00100	39.2J	288*1	28.2J	355	3540
B-124	2	07/20/2023	B-124-S-2'-20230720	In-Situ	<0.000389	<0.000461	<0.000571	<0.00102	<0.000347	<0.00102	<0.00102	47.4J	134*1	<14.9	181	3160
B-125	2	07/20/2023	B-125-S-2'-20230720	In-Situ	0.000444J	<0.000455	<0.000564	<0.00101	<0.000343	<0.00101	<0.00101	38.0J	326*1	43.5J	408	1720
B-126	2	07/20/2023	B-126-S-2'-20230720	In-Situ	<0.000382	<0.000452	<0.000561	<0.00100	0.000413J	<0.00100	<0.00100	27.8J	635*1	82.2	745	1670
B-127	2	07/20/2023	B-127-S-2'-20230720	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	0.000381J	<0.00102	<0.00102	42.9J	120*1	<15.1	163	1590
B-128	2	07/20/2023	B-128-S-2'-20230720	In-Situ	<0.000386	0.000497J	<0.000566	0.00114J	0.000463J	0.00160J	0.00210J	23.7J	207*1	16.0J	247	724F1
B-129	2	07/20/2023	B-129-S-2'-20230720	In-Situ	<0.000384	<0.000455	<0.000564	<0.00101	<0.000343	<0.00101	<0.00101	33.1J	278*1	28.1J	339	1470
B-130	2	07/20/2023	B-130-S-2'-20230720	In-Situ	0.000425J	<0.000456	<0.000565	<0.00101	<0.000344	<0.00101	<0.00101	29.4J	125*1	<15.1	154	1880
B-136	2	07/21/2023	B-136-S-2'-20230721	In-Situ	<0.000391	<0.000463	<0.000574	<0.00103	<0.000350	<0.00103	<0.00103	30.5J	194	<15.2	225	4320
B-137	2	07/21/2023	B-137-S-2'-20230721	In-Situ	<0.000391	<0.000463	<0.000573	<0.00102	<0.000349	<0.00102	<0.00102	22.3J	111	<15.0	133	4450
B-138	2	07/21/2023	B-138-S-2'-20230721	In-Situ	<0.000392	<0.000464	<0.000575	<0.00103	<0.000350	<0.00103	<0.00103	26.7J	123	<15.1	150	3920
B-139	2	07/21/2023	B-139-S-2'-20230721	In-Situ	<0.000391	<0.000463	<0.000574	<0.00103	<0.000350	<0.00103	<0.00103	26.1J	96.2	<15.2	122	1590
B-140	2	07/21/2023	B-140-S-2'-20230721	In-Situ	<0.000387	<0.000458	<0.000568	<0.00101	<0.000346	<0.00101	<0.00101	28.4J	132	<15.1	160	1870
B-141	2	07/21/2023	B-141-S-2'-20230721	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	45.4J	131	<15.3	176	2660
B-142	2	07/21/2023	B-142-S-2'-20230721	In-Situ	<0.000393	0.00143J	<0.000576	<0.00103	<0.000351	<0.00103	0.00143J	32.1J	129	16.3J	177	1770
B-143	2	07/21/2023	B-143-S-2'-20230721	In-Situ	<0.000374	<0.000443	<0.000549	<0.000982	<0.000335	<0.000982	<0.000982	37.7J	80.9	<14.8	119	986
B-144	2	07/21/2023	B-144-S-2'-20230721	In-Situ	<0.000420	<0.000497	<0.000616	<0.00110	<0.000375	<0.00110	<0.00110	41.3J	171	17.3J	230	2220
B-145	2	07/21/2023	B-145-S-2'-20230721	In-Situ	<0.000389	<0.000461	<0.000572	<0.00102	<0.000348	<0.00102	<0.00102	19.0J	408	45.8J	473	1700
B-146	2	07/21/2023	B-146-S-2'-20230721	In-Situ	<0.000389	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	36.6J	216	20.1J	273	2760
B-147	2	07/21/2023	B-147-S-2'-20230721	In-Situ	<0.000389	<0.000461	<0.000571	<0.00102	<0.000348	<0.00102	<0.00102	32.0J	113	16.0J	161	5050
B-148	2	07/21/2023	B-148-S-2'-20230721	In-Situ	<0.000389	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	33.9J	284	30.0J	348	2510
B-149	2	07/21/2023	B-149-S-2'-20230721	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	40.3J	186	<15.3	226	2560
B-150	2	07/21/2023	B-150-S-2'-20230721	In-Situ	<0.000392	0.00123J	<0.000575	<0.00103	<0.000350	<0.00103	0.00123J	22.5J	890	<15.4	913	2170
B-151	2	07/21/2023	B-151-S-2'-20230721	In-Situ	<0.000392	<0.000464	<0.000575	<0.00103	<0.000350	<0.00103	<0.00103	22.5J	225	22.2J	270	1950
B-152	2	07/21/2023	B-152-S-2'-20230721	In-Situ	<0.000394	<0.000467	<0.000578	<0.00103	<0.000352	<0.00103	<0.00103	20.5J	95.4	<15.1	116	3470
B-153	2	07/21/2023	B-153-S-2'-20230721	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.000345	<0.00101	<0.00101	28.7J	175	<15.0	204	2870
B-154	2	07/21/2023	B-154-S-2'-20230721	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	38.1J	123	<15.3	161	3650
B-155	2	07/21/2023	B-155-S-2'-20230721	In-Situ	<0.000389	0.00111J	<0.000572	<0.00102	<0.000348	<0.00102	0.00111J	32.1J	544	75.6	652	1340
B-156	2	07/21/2023	B-156-S-2'-20230721	In-Situ	<0.000385	<0.000456	<0.000565	<0.00101	<0.000344	<0.00101	<0.00101	32.4J	1880	213	2130	1310
B-157	2	07/21/2023	B-157-S-2'-20230721	In-Situ	<0.000392	<0.000464	<0.000575	<0.00103	<0.000350	<0.00103	<0.00103	47.0J	300	37.9J	385	5150
B-158	2	07/21/2023	B-158-S-2'-20230721	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	35.3J	458	53.5	547	3170
B-159	2	07/21/2023	B-159-S-2'-20230721	In-Situ	<0.000392	<0.000465	<0.000576	<0.00103	<0.000350	<0.00103	<0.00103	36.9J	194	18.9J	250	1800
B-160	2	07/21/2023	B-160-S-2'-20230721	In-Situ	<0.000388	<0.000459	<0.000569	<0.00102	<0.000347	<0.00102	<0.00102	40.7J	113	<15.2	154	3060
B-161	2	07/21/2023	B-161-S-2'-20230721	In-Situ	<0.000394	<0.000466	<0.000578	<0.00103	<0.000352	<0.00103	<0.00103	25.4J B	51.5J	<15.5	76.9	7470
B-162	2	07/21/2023	B-162-S-2'-20230721	In-Situ	<0.000392	<0.000464	<0.000575	<0.00103	<0.000350	<0.00103	<0.00103	46.1J B	51.8	<15.4	97.9	10200
B-163	2	07/21/2023	B-163-S-2'-20230721	In-Situ	<0.000391	<0.000463	<0.000573	<0.00102	<0.000349	<0.00102	<0.00102	47.5J B	102	<15.4	150	7890
B-164	2	07/21/2023	B-164-S-2'-20230721	In-Situ	0.000415J F1	<0.000467	<0.000579	<0.00103	<0.000352	<0.00103	<0.00103	18.8J B	153	17.0J	189	9910

Table 1
2023 Soil Analytical Results
Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico



Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene 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 Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-165	2	07/21/2023	B-165-S-2'-20230721	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000352	<0.00103	<0.00103	28.9J B	169	22.6J	221	3550
B-166	2	07/21/2023	B-166-S-2'-20230721	In-Situ	<0.000390	<0.000462	<0.000572	<0.00102	<0.000348	<0.00102	<0.00102	20.6J B	105	<15.1	126	2320
B-167	2	07/24/2023	B-167-S-2'-20230724	In-Situ	<0.000386	0.000790J	<0.000566	<0.00101	0.000448J	<0.00101	0.00124J	32.2J	58.1	<15.1	90.3	3650F1
B-168	2	07/24/2023	B-168-S-2'-20230724	In-Situ	<0.000387	<0.000459	<0.000568	<0.00102	0.000545J	<0.00102	<0.00102	15.3J	323	55.8	394	1360
B-169	2	07/24/2023	B-169-S-2'-20230724	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	0.000458J	<0.00102	<0.00102	<15.1	<15.1	<15.1	<15.1	378
B-170	2	07/24/2023	B-170-S-2'-20230724	In-Situ	<0.000383	<0.000454	<0.000563	<0.00101	0.000388J	<0.00101	<0.00101	15.5J	45.1J	<15.0	60.6	52.4
B-171	2	07/24/2023	B-171-S-2'-20230724	In-Situ	<0.000381	<0.000451	<0.000559	<0.00100	<0.000341	<0.00100	<0.00100	46.2J	143	20.6J	210	5270
B-172	2	07/24/2023	B-172-S-2'-20230724	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.000345	<0.00101	<0.00101	24.6J	85.1	<15.1	110	2450
B-173	2	07/24/2023	B-173-S-2'-20230724	In-Situ	<0.000384	<0.000455	<0.000564	<0.00101	0.000360J	<0.00101	<0.00101	27.4J	80.2	<15.1	108	1510
B-174	2	07/24/2023	B-174-S-2'-20230724	In-Situ	<0.000385	<0.000456	<0.000565	<0.00101	<0.000344	<0.00101	<0.00101	24.9J	<15.1	<15.1	24.9J	1750
B-175	2	07/24/2023	B-175-S-2'-20230724	In-Situ	<0.000383	<0.000453	<0.000562	<0.00100	0.000412J	<0.00100	<0.00100	<14.9	<14.9	<14.9	<14.9	1910
B-176	2	07/24/2023	B-176-S-2'-20230724	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	0.000358J	<0.00102	<0.00102	25.2J	46.0J	<14.9	71.2	1910
B-177	2	07/24/2023	B-177-S-2'-20230724	In-Situ	<0.000389	<0.000461	<0.000571	<0.00102	<0.000347	<0.00102	<0.00102	15.5J	102	16.1J	134	1810
B-178	2	07/24/2023	B-178-S-2'-20230724	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	32.1J	<15.0	<15.0	32.1J	3050
B-179	2	07/24/2023	B-179-S-2'-20230724	In-Situ	<0.000383	<0.000454	<0.000563	<0.00101	0.000717J	<0.00101	<0.00101	39.3J	98.7	215	353	2470
B-180	2	07/24/2023	B-180-S-2'-20230724	In-Situ	0.000404J	<0.000460	<0.000570	<0.00102	0.000479J	<0.00102	<0.00102	22.5J	<15.0	<15.0	22.5J	1940
B-181	2	07/24/2023	B-181-S-2'-20230724	In-Situ	<0.000389	<0.000461	<0.000571	<0.00102	0.000631J	<0.00102	<0.00102	25.7J	47.6J	<15.0	73.3	1110
B-182	2	07/24/2023	B-182-S-2'-20230724	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	0.000435J	<0.00101	<0.00101	30.7J	75.9	<15.1	107	1260
B-183	2	07/24/2023	B-183-S-2'-20230724	In-Situ	<0.000385	<0.000456	0.000985J	0.00192J	0.000972J	0.00289J	0.00388J	30.6J	50.0J	<15.0	80.6	253
B-184	2	07/24/2023	B-184-S-2'-20230724	In-Situ	<0.000381	<0.000451	<0.000559	<0.00100	<0.000341	<0.00100	<0.00100	22.8J	55.2	<15.1	78.0	412
B-185	2	07/24/2023	B-185-S-2'-20230724	In-Situ	<0.000383	<0.000453	<0.000562	<0.00100	0.000358J	<0.00100	<0.00100	28.5J	75.0	<15.1	104	946
B-186	2	07/24/2023	B-186-S-2'-20230724	In-Situ	<0.000382	<0.000452	<0.000561	<0.00100	<0.000341	<0.00100	<0.00100	24.1J	132	20.3J	176	2150
B-187	2	07/24/2023	B-187-S-2'-20230724	In-Situ	<0.000388	<0.000460	0.000711J B	<0.00102	0.000426J	<0.00102	0.00114J	37.1J B	136	16.6J	190	1920
B-188	2	07/24/2023	B-188-S-2'-20230724	In-Situ	<0.000388	<0.000460	0.000677J B	<0.00102	<0.000347	<0.00102	<0.00102	33.6J B	<14.9	<14.9	33.6J	1900
B-189	2	07/24/2023	B-189-S-2'-20230724	In-Situ	<0.000384	<0.000455	0.000647J B	<0.00101	<0.000343	<0.00101	<0.00101	35.1J B	221	25.6J	282	3930
B-190	2	07/24/2023	B-190-S-2'-20230724	In-Situ	<0.000381	<0.000451	0.000640J B	<0.00100	<0.000341	<0.00100	<0.00100	25.0J B	<15.1	15.2J	40.2J	3250
B-191	2	07/24/2023	B-191-S-2'-20230724	In-Situ	<0.000383	<0.000453	0.000669J B	<0.00100	<0.000342	<0.00100	<0.00100	25.2J B	<15.0	<15.0	25.2J	513
B-192	2	07/24/2023	B-192-S-2'-20230724	In-Situ	<0.000383	0.000539J	0.000655J B	<0.00101	<0.000343	<0.00101	0.00119J	46.3J B	52.9	<15.0	99.2	821F1
B-193	2	07/24/2023	B-193-S-2'-20230724	In-Situ	<0.000387	<0.000459	0.000651J B	<0.00102	<0.000346	<0.00102	<0.00102	23.8J B	42.9J	<15.1	66.7	92.2
B-194	2	07/24/2023	B-194-S-2'-20230724	In-Situ	<0.000386	<0.000457	0.000951J B	<0.00101	<0.000345	<0.00101	<0.00101	<15.1	46.2J	<15.1	46.2J	2280
B-195	2	07/24/2023	B-195-S-2'-20230724	In-Situ	<0.000384	<0.000455	0.000659J B	<0.00101	<0.000343	<0.00101	<0.00101	47.3J B	57.7	<15.0	105	3170
B-196	2	07/24/2023	B-196-S-2'-20230724	In-Situ	<0.000388	<0.000460	0.000711J B	<0.00102	<0.000347	<0.00102	<0.00102	25.7J B	47.9J	<14.9	73.6	5290
B-197	2	07/24/2023	B-197-S-2'-20230724	In-Situ	<0.000381	<0.000451	0.000725J B	<0.00100	<0.000341	<0.00100	<0.00100	17.2J B	55.3	<14.9	72.5	2700
B-198	2	07/24/2023	B-198-S-2'-20230724	In-Situ	<0.000382	0.000460J	0.000639J B	<0.00100	<0.000341	<0.00100	0.00110J	28.8J B	49.6	<14.9	78.4	715
B-199	2	07/24/2023	B-199-S-2'-20230724	In-Situ	<0.000383	0.000526J	0.000684J B	<0.00101	<0.000343	<0.00101	0.00121J	30.2J B	48.1J	<15.0	78.3	336
B-200	2	07/24/2023	B-200-S-2'-20230724	In-Situ	<0.000383	<0.000453	0.000708J B	<0.00100	<0.000342	<0.00100	<0.00100	45.7J B	63.5	<15.1	109	1040
B-201	2	07/24/2023	B-201-S-2'-20230724	In-Situ	<0.000384	0.000612J	0.000673J B	<0.00101	<0.000343	<0.00101	0.00129J	43.2J B	<15.1	<15.1	43.2J	802
B-202	2	07/25/2023	B-202-S-2'-20230725	In-Situ	<0.000383	0.000783J F1	0.000975J B F1	<0.00100	<0.000342	<0.00100	0.00176J	27.9J	33.6J	<14.9	61.5	790
B-203	2	07/25/2023	B-203-S-2'-20230725	In-Situ	<0.000381	0.000869J	0.000842J B	<0.00100	<0.000341	<0.00100	0.00171J	41.1J	29.3J	<14.9	70.4	5730
B-204	2	07/25/2023	B-204-S-2'-20230725	In-Situ	<0.000387	<0.000459	0.000676J B	<0.00102	<0.000346	<0.00102	<0.00102	35.8J	448	34.5J	518	3230
B-205	2	07/25/2023	B-205-S-2'-20230725	In-Situ	<0.000388	0.000466J	0.000654J B	<0.00102	<0.000347	<0.00102	0.00112J	35.0J	70.4	<15.0	105	2870

Table 1
2023 Soil Analytical Results
Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico



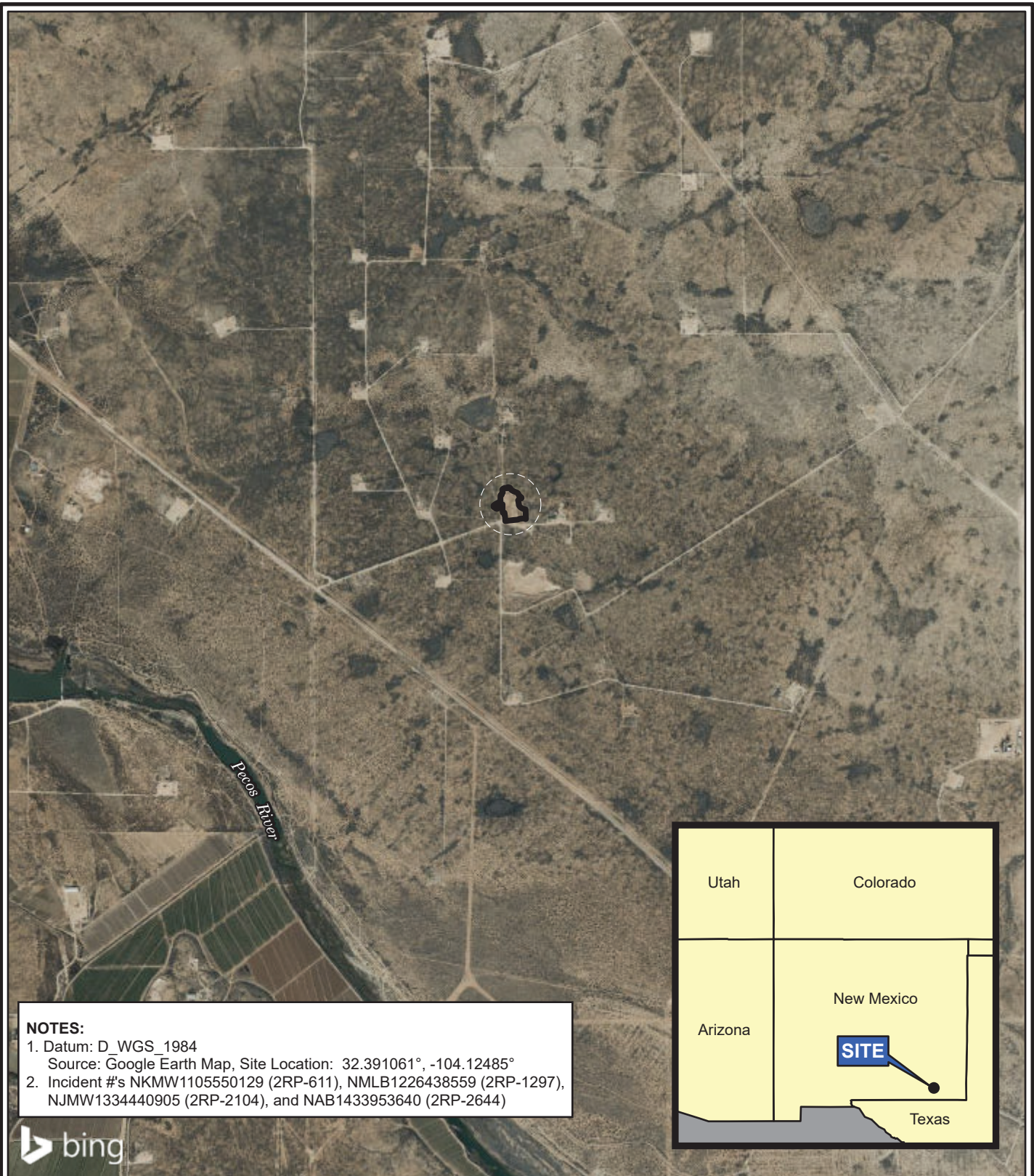
Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene mg/kg	Xylenes, Total mg/kg	Total BTEX mg/kg	Gasoline Range Organics (GRO)-C6-C10 mg/kg	Diesel Range Organics (Over C10-C28) mg/kg	Oil Range Organics (Over C28-C36) mg/kg	Total TPH mg/kg	Chloride, Dissolved mg/kg
NMAC Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-206	2	07/25/2023	B-206-S-2'-20230725	In-Situ	<0.000386	<0.000457	0.000669J B	<0.00101	<0.000345	<0.00101	<0.00101	18.8J	76.8	<15.0	95.6	1210
B-207	2	07/25/2023	B-207-S-2'-20230725	In-Situ	0.000403J	<0.000458	0.000658J B	<0.00101	<0.000345	<0.00101	0.00106J	22.9J	141	<15.0	164	731F1
B-208	2	07/25/2023	B-208-S-2'-20230725	In-Situ	<0.000389	0.000721J	0.000662J B	<0.00102	<0.000347	<0.00102	0.00138J	18.3J	69.9	<15.1	88.2	379
B-209	2	07/25/2023	B-209-S-2'-20230725	In-Situ	<0.000383	<0.000454	0.000708J B	<0.00101	<0.000343	<0.00101	<0.00101	18.6J	37.3J	<15.1	55.9	2930
B-210	2	07/25/2023	B-210-S-2'-20230725	In-Situ	<0.000384	<0.000455	0.000671J B	<0.00101	<0.000343	<0.00101	<0.00101	19.9J	155	<14.9	175	1260
B-211	2	07/25/2023	B-211-S-2'-20230725	In-Situ	<0.000389	0.000823J	0.000667J B	<0.00102	<0.000347	<0.00102	0.00149J	<15.0	170	<15.0	170	1230
B-212	2	07/25/2023	B-212-S-2'-20230725	In-Situ	<0.000385	<0.000456	0.000661J B	<0.00101	<0.000344	<0.00101	<0.00101	18.0J	77.1	<15.0	95.1	668
B-213	2	07/25/2023	B-213-S-2'-20230725	In-Situ	<0.000388	<0.000460	0.000652J B	<0.00102	<0.000347	<0.00102	<0.00102	46.0J	68.0	<15.1	114	642
B-214	2	07/25/2023	B-214-S-2'-20230725	In-Situ	<0.000383	<0.000454	0.000683J B	<0.00101	0.000401J	<0.00101	0.00108J	25.8J	52.5	<15.1	78.3	1010
B-215	2	07/25/2023	B-215-S-2'-20230725	In-Situ	<0.000382	0.000575J	0.000698J B	<0.00100	<0.000341	<0.00100	0.00127J	22.0J	72.5	<15.1	94.5	1030
B-216	2	07/25/2023	B-216-S-2'-20230725	In-Situ	<0.000387	<0.000459	0.000655J B	<0.00102	<0.000346	<0.00102	<0.00102	26.1J	337	<15.1	363	303
B-217	2	07/25/2023	B-217-S-2'-20230725	In-Situ	<0.000388	0.000550J	0.000749J B	<0.00102	<0.000347	<0.00102	0.00130J	40.5J	45.4J	<14.9	85.9	3500F1
B-218	2	07/25/2023	B-218-S-2'-20230725	In-Situ	<0.000381	<0.000451	0.000654J B	<0.00100	<0.000341	<0.00100	<0.00100	16.6J	53.6	<14.9	70.2	3040
B-219	2	07/25/2023	B-219-S-2'-20230725	In-Situ	<0.000382	<0.000452	0.000644J B	<0.00100	<0.000341	<0.00100	<0.00100	33.3J	66.9	<15.0	100	3780
B-220	2	07/25/2023	B-220-S-2'-20230725	In-Situ	<0.000383	<0.000453	0.000672J B	<0.00100	<0.000342	<0.00100	<0.00100	22.7J	75.1	<15.1	97.8	1940
B-221	2	07/25/2023	B-221-S-2'-20230725	In-Situ	<0.000384	<0.000455	0.000653J B	<0.00101	<0.000343	<0.00101	<0.00101	22.1J	87.5	<15.0	110	792
B-222	2	07/25/2023	B-222-S-2'-20230725	In-Situ	<0.000383	<0.000453	0.000767J B	<0.00100	<0.000342	<0.00100	<0.00100	18.1J	100	<15.0	118	670
B-223	2	07/25/2023	B-223-S-2'-20230725	In-Situ	<0.000383	<0.000454	0.000643J B	<0.00101	<0.000343	<0.00101	<0.00101	18.9J	65.6	<15.1	84.5	219
B-224	2	07/25/2023	B-224-S-2'-20230725	In-Situ	<0.000381	<0.000451	0.000656J B	<0.00100	<0.000341	<0.00100	<0.00100	19.0J	181	<14.9	200	524
B-225	2	07/25/2023	B-225-S-2'-20230725	In-Situ	<0.000383	<0.000454	0.000672J B	<0.00101	<0.000343	<0.00101	<0.00101	46.0J	252	<14.9	298	1050
B-226	2	07/25/2023	B-226-S-2'-20230725	In-Situ	<0.000384	<0.000455	0.000696J B	<0.00101	<0.000343	<0.00101	<0.00101	18.0J	203	<14.9	221	588
B-227	2	07/25/2023	B-227-S-2'-20230725	In-Situ	0.000439J	<0.000455	<0.000564	<0.00101	0.000432J F1	<0.00101	<0.00101	18.3J	85.7	<15.0	104	234
B-228	2	07/25/2023	B-228-S-2'-20230725	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	29.5J	74.0	<15.1	104	210
B-229	2	07/25/2023	B-229-S-2'-20230725	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	41.5J	45.7J	<15.1	87.2	913
B-230	2	07/25/2023	B-230-S-2'-20230725	In-Situ	<0.000383	<0.000454	<0.000563	<0.00101	<0.000343	<0.00101	<0.00101	27.3J	35.5J	<15.0	62.8	737
B-231	2	07/25/2023	B-231-S-2'-20230725	In-Situ	<0.000384	<0.000455	<0.000564	<0.00101	<0.000343	<0.00101	<0.00101	39.8J	28.1J	<14.9	67.9	1160
B-232	2	07/25/2023	B-232-S-2'-20230725	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	20.7J	38.2J	<15.0	58.9	386
B-233	2	07/25/2023	B-233-S-2'-20230725	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	26.2J	<15.1	<15.1	26.2J	874
B-234	2	07/26/2023	B-234-S-2-20230726	In-Situ	<0.000383	0.00709	0.000965J	0.00220J	0.000827J	0.00303J	0.0111	17.5J	112	<14.9	130	123
B-235	2	07/26/2023	B-235-S-2-20230726	In-Situ	0.000498J	<0.000452	<0.000561	0.00129J	0.000483J	0.00177J	0.00227J	38.1J	320	<15.1	358	1350
B-236	2	07/26/2023	B-236-S-2-20230726	In-Situ	0.000515J	<0.000456	<0.000565	0.00160J	0.000552J	0.00215J	0.00267J	34.0J	190	<14.9	224	784
B-237	2	07/26/2023	B-237-S-2-20230726	In-Situ	0.000535J	<0.000460	0.000705J	0.00208J	0.000744J	0.00282J	0.00406	<15.0	61.5	<15.0	61.5	294
B-238	2	07/26/2023	B-238-S-2-20230726	In-Situ	0.000431J	<0.000459	<0.000568	0.00117J	0.000420J	0.00159J	0.00202J	32.8J	190	<15.0	223	1610
B-239	2	07/26/2023	B-239-S-2-20230726	In-Situ	0.000546J	<0.000455	<0.000564	0.00174J	0.000574J	0.00231J	0.00286J	24.0J	215	<15.0	239	2200
B-240	2	07/26/2023	B-240-S-2-20230726	In-Situ	0.000629J	<0.000460	0.000686J	0.00187J	0.000672J	0.00254J	0.00386J	38.7J	301	<15.1	340	1570
B-241	2	07/26/2023	B-241-S-2-20230726	In-Situ	0.000698J	<0.000457	0.000876J	0.00242J	0.000800J	0.00322J	0.00479	20.9J	25.1J	<15.1	46.0J	560
B-242	2	07/26/2023	B-242-S-2-20230726	In-Situ	0.000749J	<0.000454	0.00101J	0.00252J	0.000892J	0.00341J	0.00517	21.3J	25.9J	<15.0	47.2J	418
B-243	2	07/26/2023	B-243-S-2-20230726	In-Situ	0.000688J	<0.000456	0.000756J	0.00185J	0.000674J	0.00252J	0.00397J	21.3J	32.4J	<14.9	53.7	575
B-244	2	07/26/2023	B-244-S-2-20230726	In-Situ	0.000849J	<0.000461	0.00115J	0.00298J	0.00116J	0.00414	0.00614	17.4J	73.1	<14.9	90.5	1650F1
B-245	2	07/26/2023	B-245-S-2-20230726	In-Situ	0.000558J	<0.000451	0.000758J	0.00195J	0.000737J	0.00269J	0.00400	34.9J	26.9J	<15.0	61.8	2280
B-246	2	07/26/2023	B-246-S-2-20230726	In-Situ	<0.000384	<0.000455	0.000838J	0.00219J	0.000859J	0.00305J	0.00389J	33.7J	53.0	<15.0	86.7	807

Table 1
2023 Soil Analytical Results
Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico

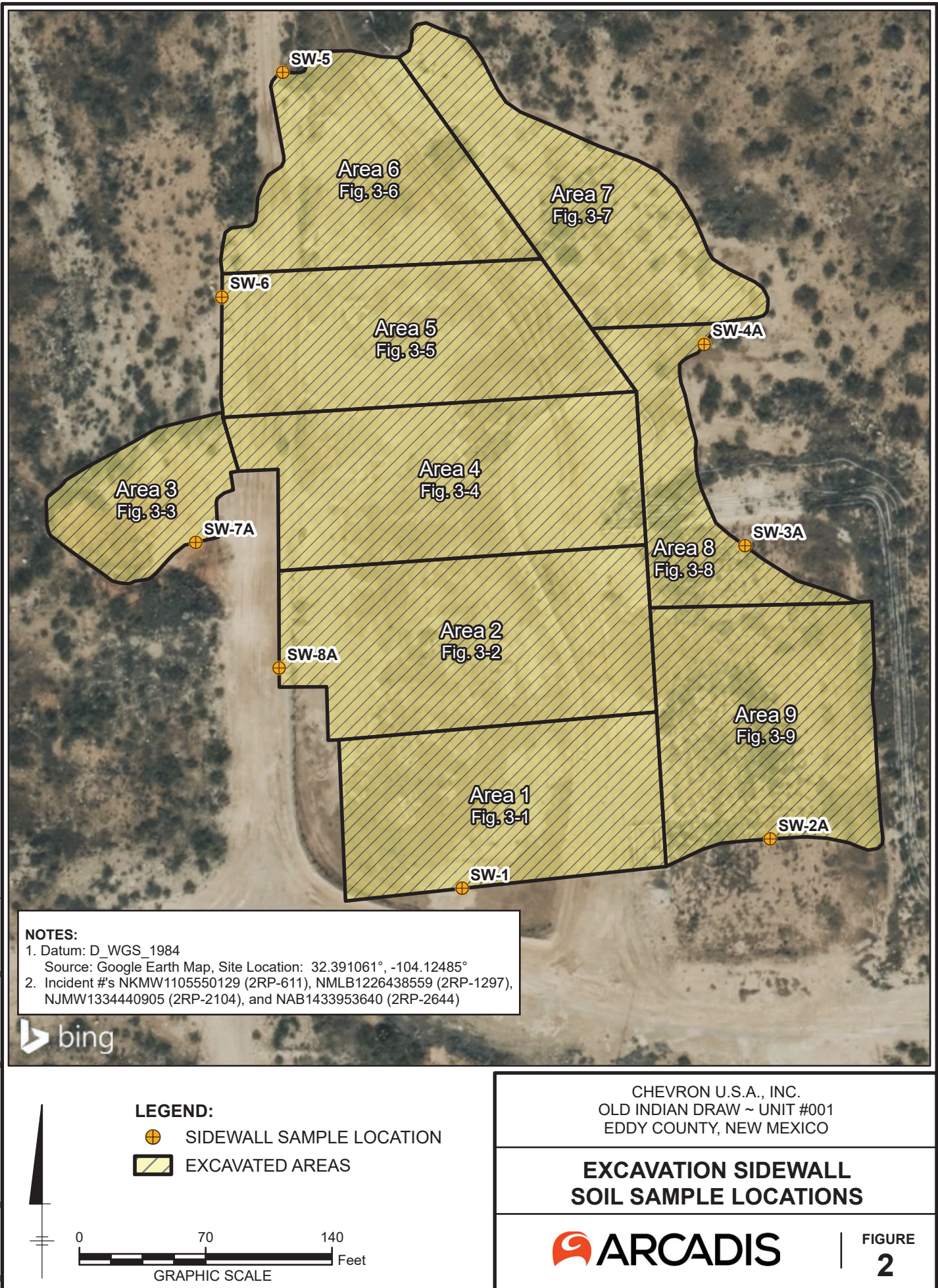
Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene mg/kg	Xylenes, Total mg/kg	Total BTEX mg/kg	Gasoline Range Organics (GRO)-C6-C10 mg/kg	Diesel Range Organics (Over C10-C28) mg/kg	Oil Range Organics (Over C28-C36) mg/kg	Total TPH mg/kg	Chloride, Dissolved mg/kg
NMAC Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-247	2	07/26/2023	B-247-S-2-20230726	In-Situ	<0.000387	<0.000458	0.000705J	0.00220J	0.000759J	0.00296J	0.00366J	<15.1	18.8J F1	<15.1	18.8J	391
B-248	2	07/26/2023	B-248-S-2-20230726	In-Situ	0.000388J	<0.000457	<0.000566	0.00166J	0.000526J	0.00219J	0.00257J	26.5J	16.1J	<15.1	42.6J	275
B-249	2	07/26/2023	B-249-S-2-20230726	In-Situ	<0.000383	<0.000453	0.00102J	0.00258J	0.000933J	0.00351J	0.00453	24.1J	18.2J	<15.1	42.3J	269
B-250	2	07/26/2023	B-250-S-2-20230726	In-Situ	0.000569J	0.0119	0.00140J	0.00393J	0.00131J	0.00524	0.0191	20.3J	20.6J	<15.2	40.9J	1390
B-251	2	07/26/2023	B-251-S-2-20230726	In-Situ	0.000707J	<0.000460	0.000903J	0.00262J	0.000941J	0.00356J	0.00517	40.1J	129	<14.9	169	879
B-252	2	07/26/2023	B-252-S-2-20230726	In-Situ	0.000843J	0.00762	0.00154J	0.00373J	0.00133J	0.00506	0.0151	<14.9	155	<14.9	155	212
B-253	2	07/26/2023	B-253-S-2-20230726	In-Situ	0.000609J	<0.000454	0.000765J	0.00193J	0.000661J	0.00259J	0.00397J	30.7J	151	<14.9	182	381
B-254	2	08/15/2023	B-254-S-2'-20230815	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	0.000525J	<0.00102	<0.00102	37.0J	97.7	<14.9	135	667F1
B-255	2	07/26/2023	B-255-S-2-20230726	In-Situ	<0.000389	<0.000461	0.000734J B	0.00266J	<0.000347	0.00266J	0.00339J	17.3J	44.7J	<15.1	62.0	871
B-256	2	07/26/2023	B-256-S-2-20230726	In-Situ	<0.000381	<0.000451	0.000641J B	0.00108J	<0.000341	0.00108J	0.00172J	18.2J	63.2	<15.1	81.4	2090
B-257	2	07/26/2023	B-257-S-2-20230726	In-Situ	<0.000387	<0.000459	0.000664J B	0.00247J	<0.000346	0.00247J	0.00313J	15.7J	50.0J	<15.2	65.7	245
B-258	2	07/26/2023	B-258-S-2-20230726	In-Situ	<0.000383	<0.000453	0.000656J B	<0.00100	<0.000342	<0.00100	<0.00100	28.4J	17.0J	<14.9	45.4J	144
B-259	2	07/26/2023	B-259-S-2-20230726	In-Situ	<0.000384	<0.000455	0.000701J B	<0.00101	<0.000343	<0.00101	<0.00101	36.8J	20.0J	<15.0	56.8	146
B-260	2	07/27/2023	B-260-S-2-20230727	In-Situ	<0.000383	<0.000454	0.000683J B	<0.00101	<0.000343	<0.00101	<0.00101	27.9J	391	<15.0	419	900
B-261	2	07/27/2023	B-261-S-2-20230727	In-Situ	<0.000386	<0.000457	0.000671J B	<0.00101	<0.000345	<0.00101	<0.00101	33.6J	47.6J	<15.1	81.2	1670
B-262	2	07/27/2023	B-262-S-2-20230727	In-Situ	<0.000388	<0.000460	0.000660J B	<0.00102	<0.000347	<0.00102	<0.00102	34.4J	157	<15.1	191	1240
B-263	2	07/27/2023	B-263-S-2-20230727	In-Situ	<0.000387	<0.000458	0.000655J B	<0.00101	<0.000345	<0.00101	<0.00101	23.1J	28.3J	<14.9	51.4	2140
B-264	2	07/27/2023	B-264-S-2-20230727	In-Situ	<0.000383	<0.000454	0.000650J B	<0.00101	<0.000343	<0.00101	<0.00101	34.8J	121	<14.9	156	2430
B-265	2	07/27/2023	B-265-S-2-20230727	In-Situ	<0.000388	<0.000460	0.000667J B	<0.00102	<0.000347	<0.00102	<0.00102	63.6	31.9J	<14.9	95.5	599F1
B-266	2	07/27/2023	B-266-S-2-20230727	In-Situ	<0.000387	<0.000459	0.000657J B	<0.00102	<0.000346	<0.00102	<0.00102	36.8J	30.5J	<15.0	67.3	1260
B-267	2	07/27/2023	B-267-S-2-20230727	In-Situ	<0.000386	<0.000457	0.000752J B	<0.00101	<0.000345	<0.00101	<0.00101	32.2J	145	<15.1	177	1910
B-268	2	07/27/2023	B-268-S-2-20230727	In-Situ	<0.000383	<0.000454	0.000681J B	<0.00101	<0.000343	<0.00101	<0.00101	32.2J	104	15.1J	151	1600
B-269	2	07/27/2023	B-269-S-2-20230727	In-Situ	<0.000381	<0.000451	0.000673J B	<0.00100	<0.000341	<0.00100	<0.00100	28.3J	72.7	<14.9	101	748
B-270	2	07/27/2023	B-270-S-2-20230727	In-Situ	<0.000389	<0.000461	0.000666J B	<0.00102	<0.000347	<0.00102	<0.00102	28.0J	<15.1	<15.1	28.0J	1270
B-271	2	07/27/2023	B-271-S-2-20230727	In-Situ	<0.000388	<0.000460	0.000669J B	<0.00102	<0.000347	<0.00102	<0.00102	27.1J	67.6	26.9J	122	414
B-272	2	07/27/2023	B-722-S-2-20230727	In-Situ	<0.000384	<0.000455	0.000646J B	<0.00101	<0.000343	<0.00101	<0.00101	32.4J	451	68.7	552	1650
B-273	2	07/27/2023	B-723-S-2-20230727	In-Situ	<0.000383	<0.000453	0.000752J B	<0.00100	<0.000342	<0.00100	<0.00100	23.5J	117	15.9J	156	661
SW-1	2	07/13/2023	SW-1-S-2'-20230713	In-Situ	<0.000409	<0.000484	<0.000600	<0.00107	0.000373J	<0.00107	<0.00107	47.3J	39.9J B	<15.9	87.2	47.6
SW-2A	2	08/04/2023	SW-2A-S-2'-20230804	In-Situ	<0.000385	0.00193J	<0.000565	0.00114J *+	0.000857J *+	0.00200J *+	0.00393J	19.0J	27.4J	<15.0	46.4J	225
SW-2	2	07/13/2023	SW-2-S-2'-20230713	Removed	<0.000401	<0.000475	<0.000588	<0.00105	<0.000358	<0.00105	<0.00105	31.4J	70.5B	<15.8	102	466
SW-3A	2	08/04/2023	SW-3A-S-2'-20230804	In-Situ	<0.000383	0.00242	<0.000563	<0.00101	0.000450J *+	<0.00101	0.00287J	16.4J	40.9J	<14.9	57.3	186
SW-3	2	07/13/2023	SW-3-S-2'-20230713	Removed	0.000465J	0.000475J	<0.000570	<0.00102	0.000349J	<0.00102	0.00129J	37.7J	181B	<15.3	219	175
SW-4A	2	08/04/2023	SW-4A-S-2'-20230804	In-Situ	<0.000388	0.00129J	<0.000570	<0.00102	<0.000347	<0.00102	0.00129J	46.1J	37.3J	<15.1	83.4	88.6
SW-4	2	07/13/2023	SW-4-S-2'-20230713	Removed	<0.000392	<0.000465	<0.000576	0.00120J	0.000434J	0.00163J	0.00163J	42.7J	97.7B	<15.1	140	236
SW-5	2	07/13/2023	SW-5-S-2'-20230713	In-Situ	<0.000396	<0.000469	<0.000581	<0.00104	<0.000354	<0.00104	<0.00104	36.3J	32.1J B	<15.2	68.4	135
SW-6	2	07/13/2023	SW-6-S-2'-20230713	In-Situ	<0.000386	<0.000457	<0.000567	<0.00101	<0.000345	<0.00101	<0.00101	39.2J	22.9J B	<15.2	62.1	333
SW-7A	2	08/04/2023	SW-7A-S-2'-20230804	In-Situ	<0.000382	<0.000452	<0.000561	<0.00100	<0.000341	<0.00100	<0.00100	16.9J	<15.1	<15.1	16.9J	62.7
SW-7	2	07/13/2023	SW-7-S-2'-20230713	Removed	<0.000394	<0.000467	<0.000579	<0.00103	<0.000352	<0.00103	<0.00103	21.0J	81.3B	<15.3	102	424
SW-8A	2	08/04/2023	SW-8A-S-2'-20230804	In-Situ	0.000853J *+	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	44.1J B	50.3	<15.1	94.4	429
SW-8	2	07/13/2023	SW-8-S-2'-20230713	Removed	<0.000394	<0.000467	<0.000578	<0.00103	<0.000352	<0.00103	<0.00103	26.5J	128B	<15.2	155	262

Figures

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
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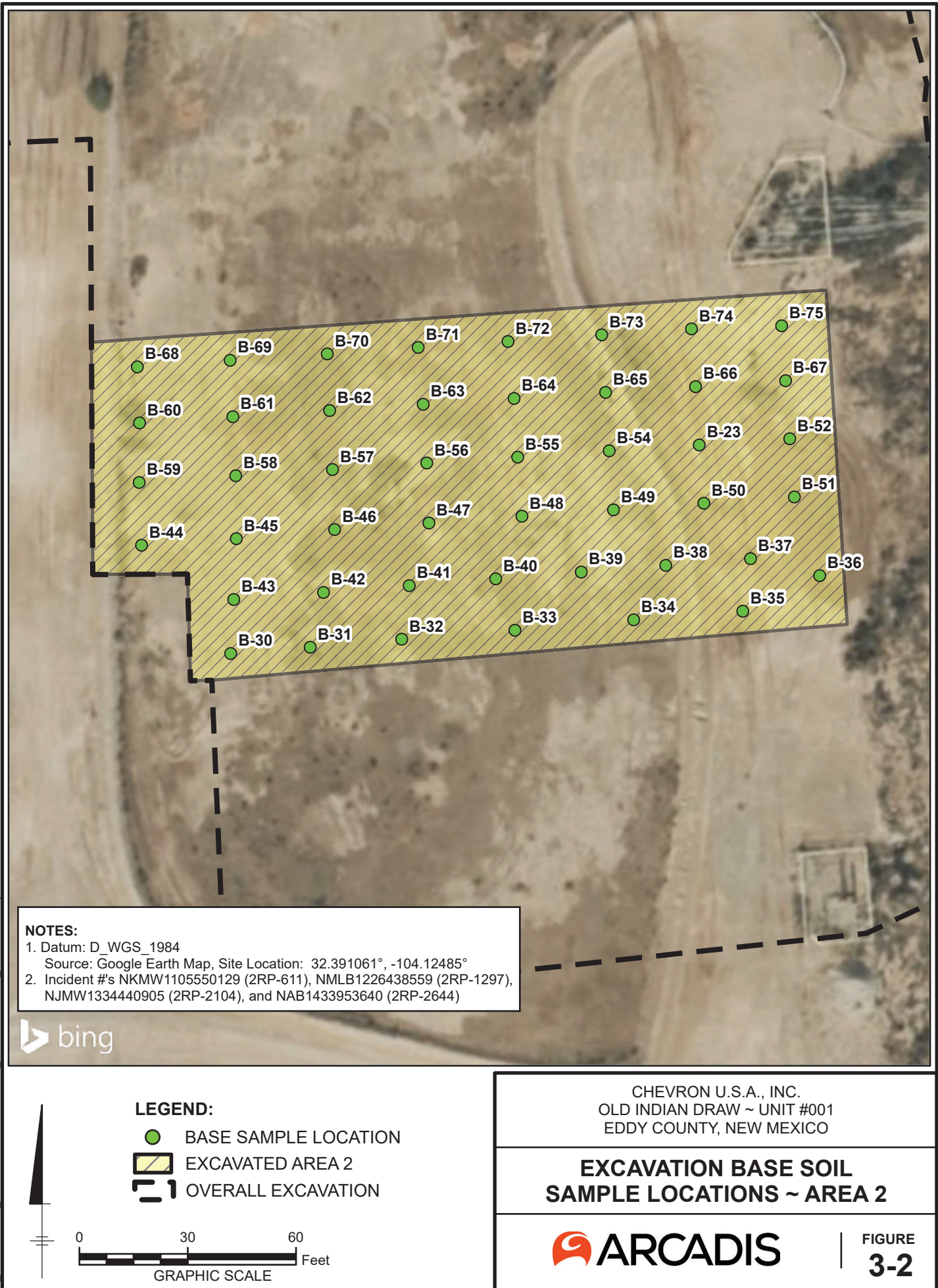
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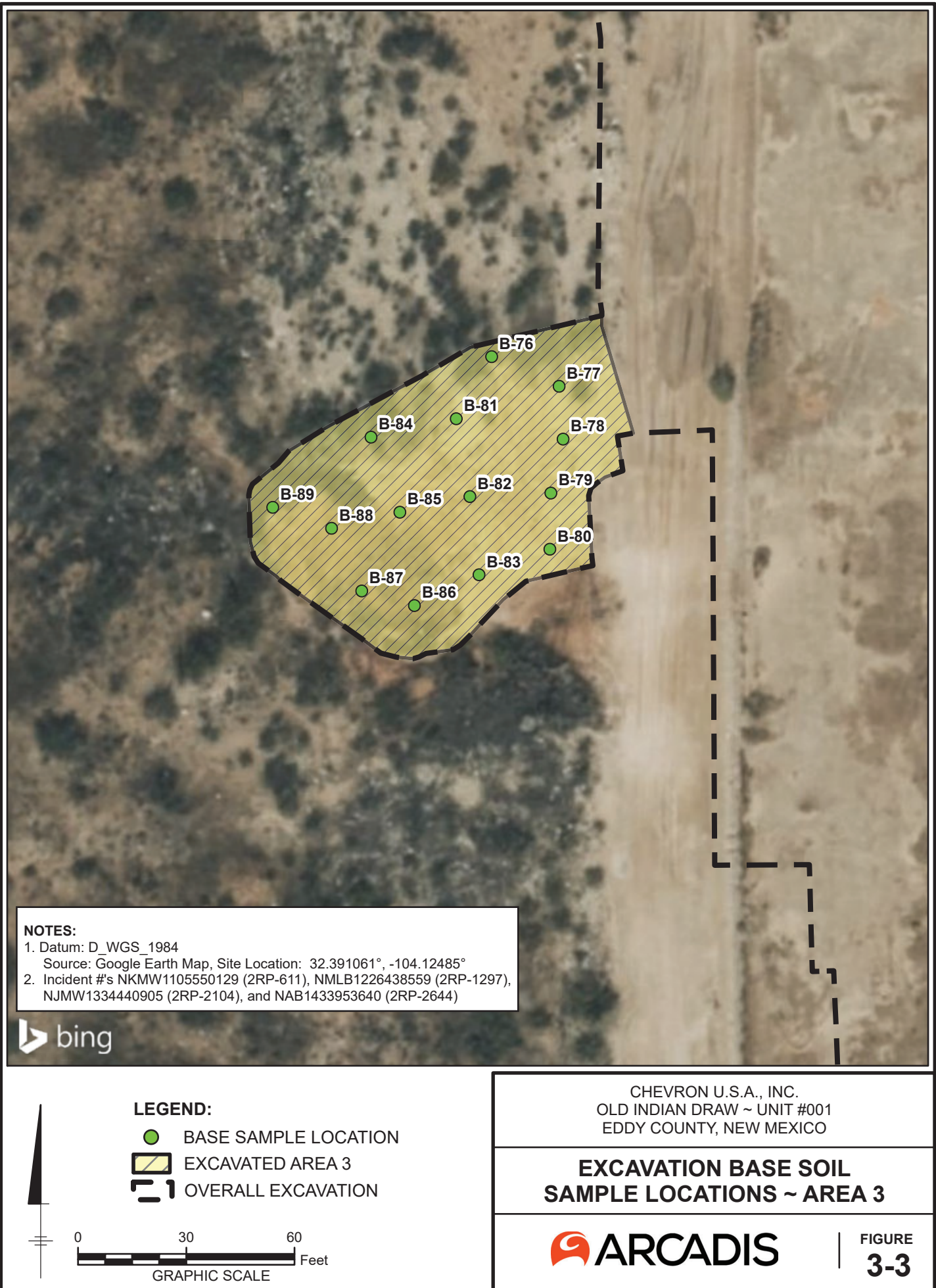
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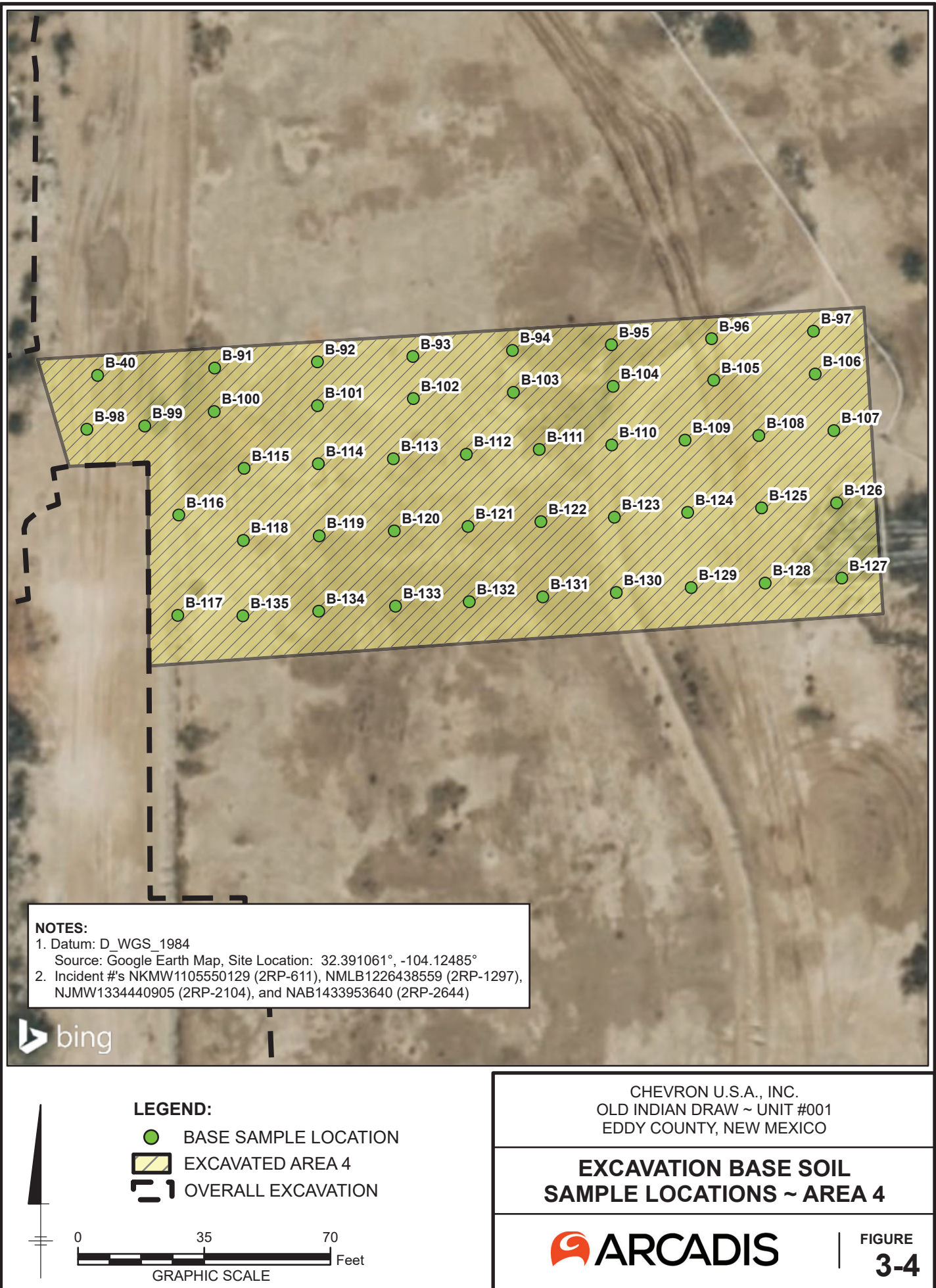
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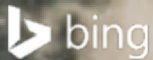
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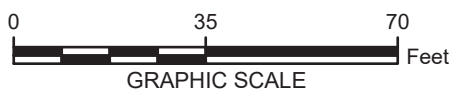
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**NOTES:**

1. Datum: D_WGS_1984
Source: Google Earth Map, Site Location: 32.391061°, -104.12485°
2. Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

**LEGEND:**

- BASE SAMPLE LOCATION
- EXCAVATED AREA 5
- OVERALL EXCAVATION



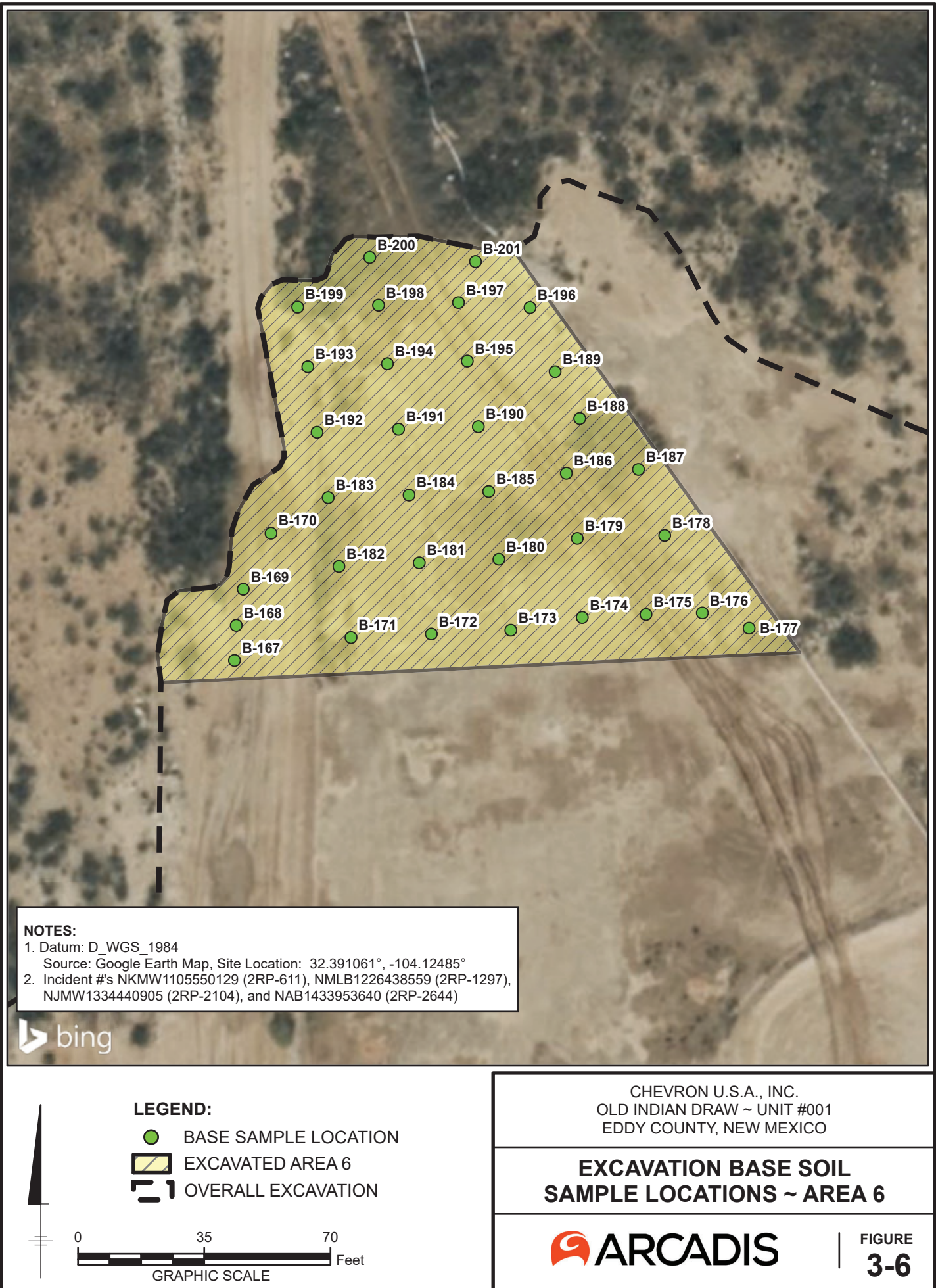
CHEVRON U.S.A., INC.
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

**EXCAVATION BASE SOIL
SAMPLE LOCATIONS ~ AREA 5**

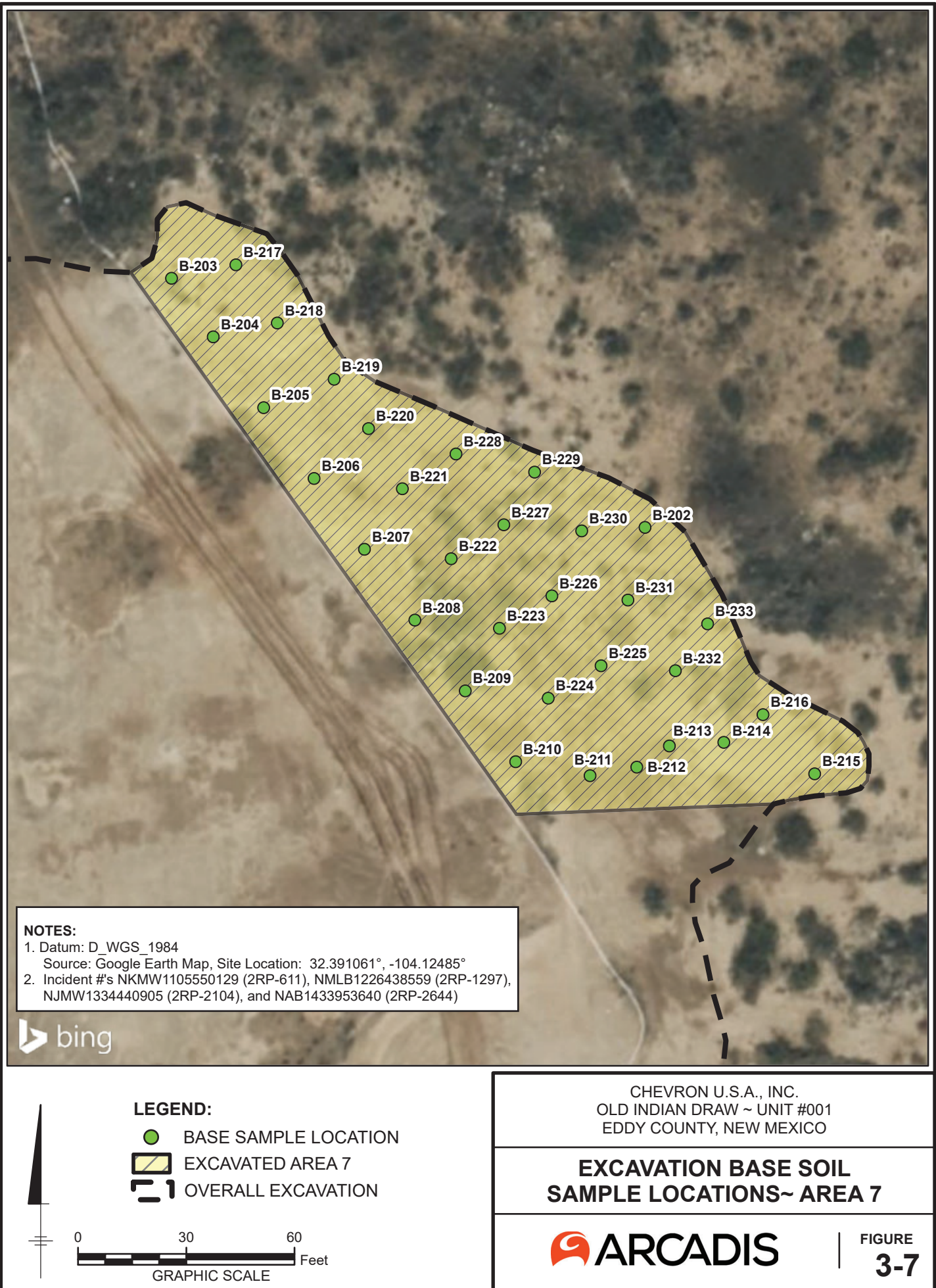


FIGURE
3-5

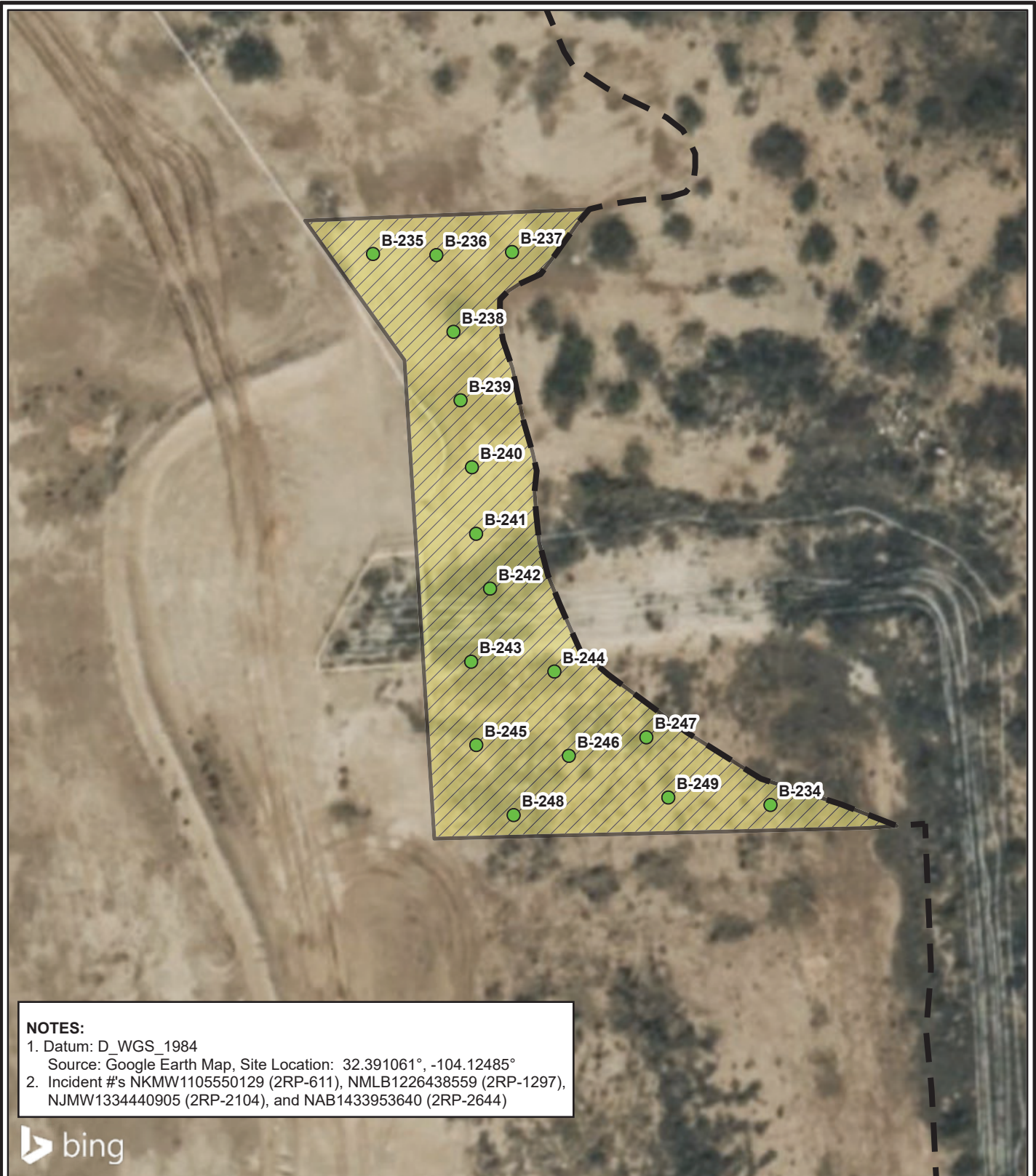
City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
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City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
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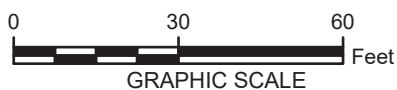


City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
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LEGEND:

- BASE SAMPLE LOCATION
- EXCAVATED AREA 8
- OVERALL EXCAVATION



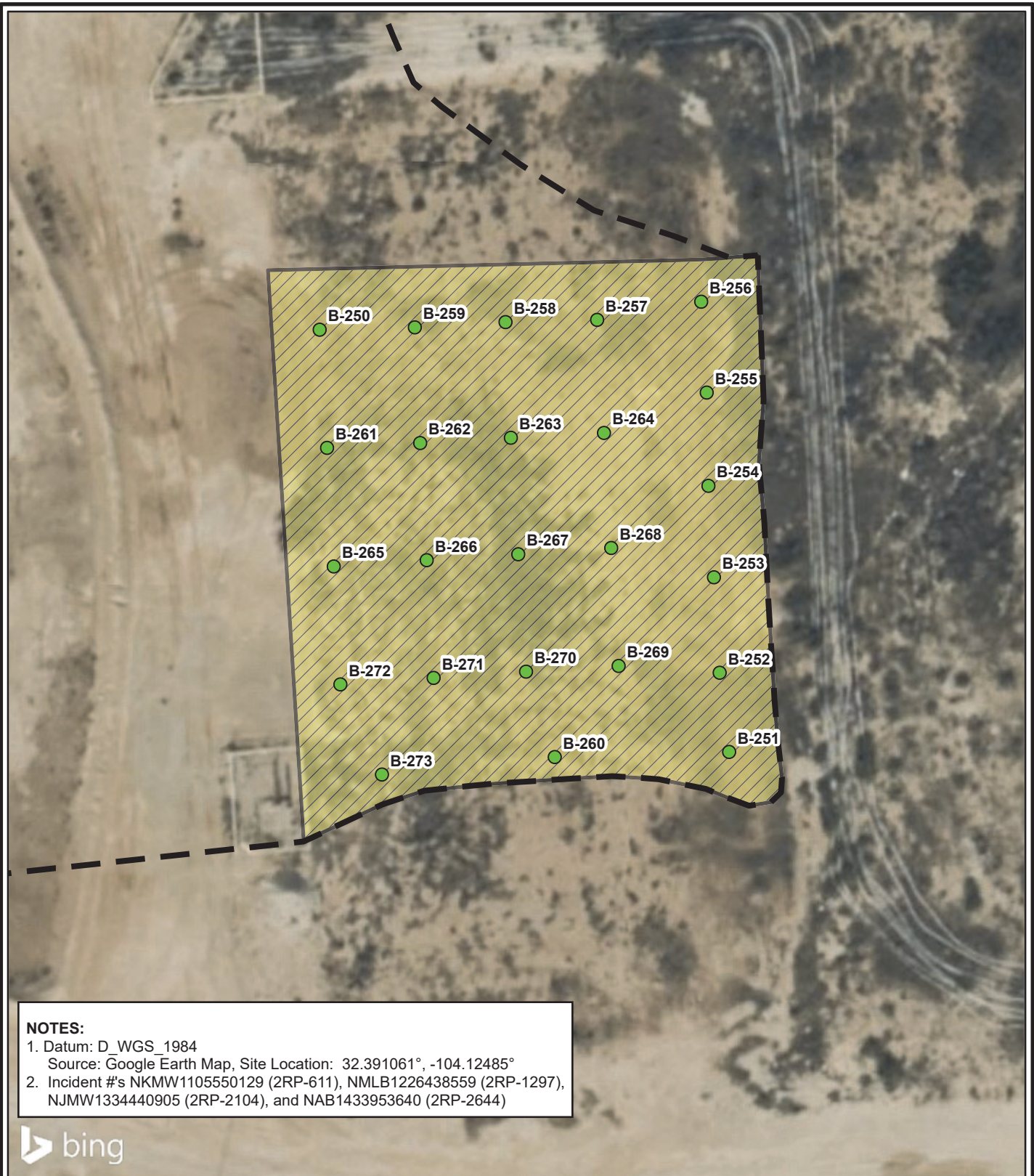
CHEVRON U.S.A., INC.
 OLD INDIAN DRAW ~ UNIT #001
 EDDY COUNTY, NEW MEXICO

**EXCAVATION BASE SOIL
 SAMPLE LOCATIONS~ AREA 8**



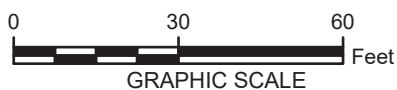
FIGURE
3-8

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
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LEGEND:

- BASE SAMPLE LOCATION
- EXCAVATED AREA 9
- OVERALL EXCAVATION



CHEVRON U.S.A., INC.
 OLD INDIAN DRAW ~ UNIT #001
 EDDY COUNTY, NEW MEXICO

**EXCAVATION BASE SOIL
 SAMPLE LOCATIONS~ AREA 9**



FIGURE
3-9

Appendix A

**Initial C-141 Form Incident #'s NKMW1105550129 (2RP-611),
NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104),
and NAB1433953640 (2RP-2644)**

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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

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FEB 18 2011

NMOCD ARTESIA

Form C-141
Revised October 10, 2003

Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

30-015-20918

Release Notification and Corrective Action

KMW 1105550129

147179 OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	CHESAPEAKE OPERATING, INC.	Contact	BRADLEY BLEVINS
Address	P. O. BOX 190 HOBBS, NM 88241	Telephone No.	575-391-1462
Facility Name	Old Indian Draw Unit 1	Facility Type	Tank Battery
Surface Owner	Mineral Owner	Lease No.	

LOCATION OF RELEASE API #30-015-20918

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22S	28E	1980	SOUTH	1980	EAST	EDDY

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	70 BBLS	Volume Recovered	60 BBLS
Source of Release	Tank valve corroded and broke	Date and Hour of Occurrence	2/17/11 9:00 a.m.	Date and Hour of Discovery	2/17/11 10:00 A.M.
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Mike Bratcher		
By Whom?	Bradley Blevins	Date and Hour	2/17/11 3:05 PM		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

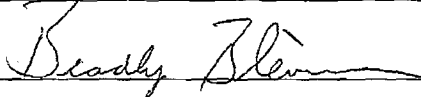
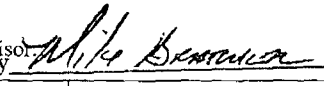
Describe Cause of Problem and Remedial Action Taken.*

Valve to water tank corroded and broke releasing 70 BBLS of produced water into the containment area and onto the location. Vacuum trucks were used to recover free fluids.

Describe Area Affected and Cleanup Action Taken.*

10 BBLS of produced water were lost. Upon completion of delineation and remediation activities a final C-141 and lab data will be furnished to the OCD.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins	Approved by District Supervisor  Signed By	
Title: HSE Specialist	Approval Date: 3/3/11	Expiration Date:
E-mail Address: Bradley.blevins@chk.com	Conditions of Approval:	Attached ☐
Date: 2/18/11 Phone: 575-391-1462	Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: 4/3/11	

* Attach Additional Sheets If Necessary

2RP-611

Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]
Sent: Friday, February 18, 2011 5:19 PM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey
Subject: Chesapeake-Old Indian Draw Unit No. 1
Attachments: Initial C-141-Old Indian Draw Unit #1.pdf

Mike,

Please find attached the initial C-141 for the above referenced well site release.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland Blvd.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-mail: cbrunson@bbcinternational.com
Web: www.bbcinternational.com

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Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]
Sent: Friday, February 18, 2011 5:28 PM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey; James A. Amos; Terry Gregston
Subject: Chesapeake-Old Indian Draw Unit No. 1
Attachments: Initial C-141-Old Indian Draw Unit #1.pdf

Mike,

Please find attached the initial C-141 for the above referenced well site release.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland Blvd.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-mail: cbrunson@bbcinternational.com
Web: www.bbcinternational.com

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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

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SEP 10 2012

NMOCD ARTESIA

Form C-141
Revised October 10, 2003

Station 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

NMLB 1226438559

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Chesapeake Energy	147179	Contact: Bradley Blevins
Address: 5014 Carlsbad Highway		Telephone No.: (575) 391-1462 ext. 86424
Facility Name: Old Indian Draw Unit Battery		Facility Type: Tank Battery

Surface Owner: Federal Government	Mineral Owner: Federal Government	Lease No.: NM-0415688-A
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LOCATION OF RELEASE

30-015-20918

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22 S	28 E					Eddy

Latitude: N 32° 23' 26.01" Longitude: W 104° 07' 28.58"

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: ~300 bbls	Volume Recovered: ~170 bbls
Source of Release: Nipple on produced water line	Date and Hour of Occurrence: August 30, 2012 @ ~08:30 hrs	Date and Hour of Discovery: August 30, 2012 @ ~08:30 hrs
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher, NMOCD; James Amos BLM	
By Whom? Bradley Blevins	Date and Hour: August 30, 2012 @ ~08:30 hrs	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse: Not Applicable	
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
Depth to Groundwater: ~50 feet		
Describe Cause of Problem and Remedial Action Taken.* A one-inch nipple ruptured releasing approximately 300 bbls of produced water. Approximately 170 bbls were recovered via vacuum truck. An Emergency Response Team arrived at the release area and began continuous abatement of the impacted area.		
Describe Area Affected and Cleanup Action Taken.* Approximately 12,730 square feet of area was affected by the release of produced water. Visibly stained soil was excavated and hauled away for disposal at a state approved facility. Soil samples were collected and submitted to Cardinal Laboratories for testing. Upon receiving acceptable results and NMOCD approval, the affected area will be backfilled, and returned to proper conditions.		

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

Signature: <i>Bradley Blevins</i>	OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins	Approved by District Supervisor: Signed By <i>Mike Bratcher</i>	
Title: EH & S Field Specialist	Approval Date: SEP 20 2012	Expiration Date:
E-mail Address: bradley.blevins@chk.com	Conditions of Approval:	Attached ☐
Date: <u>9-10-12</u> Phone: (575) 391-1462, #86424	Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: <u>10/20/2012</u>	

* Attach Additional Sheets If Necessary

2RA-1297

Bratcher, Mike, EMNRD

From: Bradley Blevins <bradley.blevins@chk.com>
Sent: Monday, September 10, 2012 9:22 AM
To: Amos, James A (jamos@blm.gov); Bratcher, Mike, EMNRD
Cc: Bradley Blevins
Subject: Old Indian Draw Unit 1- Initial C-141
Attachments: 20120910091924109.pdf

Please find the attached initial C-141 for the release on the Old Indian Draw Unit. If you have any questions please let me know.

Thanks,

Bradley Blevins
EH & S Field Specialist
DAR
Hobbs Field Office
North Permian Division
Office: (575) 391-1462 x 86424
Cell: (575) 441-0341
Fax: (575) 391-6679



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Bratcher, Mike, EMNRD

From: Bradley Blevins <bradley.blevins@chk.com>
Sent: Thursday, August 30, 2012 9:18 AM
To: Bratcher, Mike, EMNRD; Amos, James A (jamos@blm.gov); James_Amos@blm.gov
Cc: Bradley Blevins; Daniel Dominguez (ddominguezepi@gmail.com)
Subject: Old Indian Draw UT 1 CTB- Release

Mike/ Jim

Chesapeake had a release this am at 8:30 am on the Old Indian Draw UT CTB. A one inch nipple ruptured releasing produced water to the ground surface, pumpers are still investigating the amount of fluid lost and have vacuum truck in route to recover the fluid on location. Environmental plus crew has been dispatched to the release to start clean up phase, once we have all the details we will follow up with a C-141. If you have any questions please let me know.

Thanks,

Bradley Blevins
EH & S Field Specialist
DAR
Hobbs Field Office
North Permian Division
Office: (575) 391-1462 x 86424
Cell: (575) 441-0341
Fax: (575)391-6679



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RECEIVED	Form C-141
	Revised October 10, 2003
	Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form
	DEC 06 2013
NMOCD ARTESIA	

Release Notification and Corrective Action

Operator ☒ Initial Report ☐ Final Report	
Name of Company Chevron Delaware Basin 4323	Contact Bradley Blevins
Address PO Box 190, Hobbs, NM 88241	Telephone No. (575) 391-1462
Facility Name Old Indian Draw CTB	Facility Type Gathering
Surface Owner BLM	Mineral Owner API # 30-015-20918(nearest well)

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22S	28E	1980	South	1980	East	Eddy County, NM

Latitude N 32.39060° Longitude W 104.12463°

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 80 bbls	Volume Recovered 60 bbls
Source of Release Triplex pump failure	Date and Hour of Occurrence 12/02/2013 @ 10:00 am	Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher- NMOCD, James Amos- BLM	
By Whom? Bradley Blevins	Date and Hour 12/02/2013 @ 3:00 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

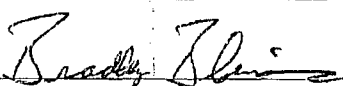
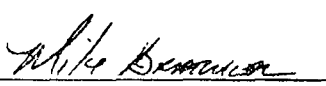
Describe Cause of Problem and Remedial Action Taken.*

A triplex pump failure caused 80 bbls of produced water to leak onto the ground. 60 bbls of fluid were recovered via vacuum truck and the pump was repaired.

Describe Area Affected and Cleanup Action Taken.*

A triplex pump failure caused 80 bbls of produced water to leak onto the ground. 60 bbls of fluid were recovered via vacuum truck and the pump was repaired. Further remediation will be performed in accordance with a remediation plan approved by NMOCD and the BLM.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins		Approved by District Supervisor Signed By 	
Title: HE Specialist		Approval Date: DEC 10 2013	Expiration Date:
E-mail Address: Bradley.blevins@chn.com		Conditions of Approval:	
Date: 12/16/13	Phone: (575) 391-1462	Attached ☐	

* Attach Additional Sheets If Necessary

Remediation per OCD Rule & Guidelines, &
like approval by BLM. **SUBMIT REMEDIATION**

PROPOSAL NO LATER THAN:

January 10, 2013**2RP-2104**

Bratcher, Mike, EMNRD

From: Kathy Purvis <kathy@bbcinternational.com>
Sent: Friday, December 06, 2013 8:48 AM
To: Bratcher, Mike, EMNRD; jamos@blm.gov
Cc: 'Bradley Blevins'; cbrunson@bbcinternational.com; kswinney@bbcinternational.com; jgilkey@bbcinternational.com
Subject: Initial C-141s, Littlefield Federal SWD #1 and Old Indian Draw CTB
Attachments: Initial C-141, Littlefield Federal SWD #1.pdf; Initial C-141, Old Indian Draw CTB.pdf

Attached are the initial C-141s for leaks that occurred at the Littlefield Federal SWD #1 on 12/01/2013 and the Old Indian Draw CTB on 12/02/2013 in Eddy County, NM. Receipt notification via email is greatly appreciated.

Kathy Purvis

BBC International, Inc.
1324 W. Marland
Hobbs, NM 88240
Phone: (575) 397-6388
Fax: (575) 397-0397
Email: kathy@bbcinternational.com

Bratcher, Mike, EMNRD

From: Blevins, Bradley G <Bradley.Blevins@chevron.com>
Sent: Monday, December 02, 2013 2:56 PM
To: Bratcher, Mike, EMNRD; 'Amos, James'
Cc: Blevins, Bradley G
Subject: Old Indian Draw Unit CTB- Release

Mike/ Jim

Chevron had a release at the OIU CTB. Bolts sheared on triplex pump causing packing to blow out, 80 barrels of produced water was released to the location pad. 60 barrels was recovered by vacuum truck, Cliff Brunson will follow up with a initial C-141. If you have any questions please let me know.

Thanks



Bradley Blevins
Chevron Delaware Basin
HF Specialist
Hobbs FMT
Direct 575-391-1462 86424
Cell- 575-441-0341

DEC 03 2014

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-141
Revised October 10, 2003
RECEIVED
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

NAB14339531041 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company: Chevron <u>4323</u>	Contact: Stephen Gwin
Address: 2401 Avenue 'O' Eunice, NM 88231	Telephone No.: (575) 263 - 0427
Facility Name: Indian Draw Tank Battery	Facility Type: tank battery

Surface Owner: BLM	Mineral Owner:	API: <u>30-015-20918</u>
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22S	28E					Eddy

Latitude: N 32° 23' 26.79" Longitude: W 104° 7' 27.90" 32-390775
104.124417

NATURE OF RELEASE

Type of Release: produced water and oil	Volume of Release: ~13 bbls	Volume Recovered: ~11 bbls
Source of Release: valve was left open and fluid gravity fed to the ground	Date and Hour of Occurrence: 10/18/14 @ am	Date and Hour of Discovery: 10/18/14 @ 5:00 am
Was Immediate Notice Given? ☒ Yes ☐ No ☒ Not Required	If YES, To Whom? Mike Bratcher, NMOCD	
By Whom? Stephen Gwin	Date and Hour: 10/20/14	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse: Not Applicable	
Depth to Water. ~25 ft bgs		
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
Describe Cause of Problem and Remedial Action Taken.* Approximately 13 bbls of produced water and oil were released when a valve was left open and fluid gravity fed to the ground. A vacuum truck was dispatched to pick up any free standing liquids. Approximately 11 bbls were recovered.		
Describe Area Affected and Cleanup Action Taken.* Approximately 3,000 square feet of surface area was impacted by the release. This tank battery is scheduled to be replaced in February 2015 with construction of the new battery location currently underway. Chevron proposes the stained caliche in the area of the release be removed, hauled to state approved disposal facility, and replaced with clean caliche. Full remediation of the old tank battery area shall occur when the new tank battery comes online. At that time soil samples will be collected from the area and submitted to Cardinal Laboratories for testing. Upon receipt of laboratory analytical data from soil samples to be collected during delineation operations, EPI will prepare and present a Remediation Proposal for NMOCD approval.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: <u>Stephen Gwin</u>	OIL CONSERVATION DIVISION	
Printed Name: Stephen Gwin	Signed By <u>Mike Bratcher</u>	
Title: HE Specialist	Approved by District Supervisor:	
E-mail Address: <u>stephen.gwin@chevron.com</u>	Approval Date: <u>12/4/14</u>	Expiration Date: <u>N/A</u>
Date: _____ Phone: (575) 263-0427	Conditions of Approval: ☐ Attached ☐	
Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: <u>1/4/15</u>		

* Attach Additional Sheets If Necessary
Site Tanking 20

2RP-2644

Bratcher, Mike, EMNRD

From: Daniel Dominguez <ddominguezepi@gmail.com>
Sent: Wednesday, December 03, 2014 3:50 PM
To: Bratcher, Mike, EMNRD; jamos@blm.gov; Gwin, Stephen
Subject: Indian Draw Tank Battery Initial C-141
Attachments: Indian Draw Tank Battery Initial C-141.pdf

Gentlemen,

Attached for your review is the Initial C-141 for the Indian Draw Tank Battery operated by Chevron.

This tank battery is scheduled to be replaced in February 2015 with construction of the new battery location currently underway. Chevron proposes the stained caliche in the area of the release be removed, hauled to state approved disposal facility, and replaced with clean caliche. Full remediation of the old tank battery area shall occur when the new tank battery comes online.

--

Sincerely,
ENVIRONMENTAL PLUS, INC.

Daniel Dominguez
Environmental Consultant/Safety Director

Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue 'O'
Eunice, NM 88231
(575) 631-0401 (Cell)
(575) 394-3481 (Office)
(575) 394-2601 (fax)

Appendix B

**Final C-141 Form Incident #'s NKMW1105550129 (2RP-611),
NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104),
and NAB1433953640 (2RP-2644)**

Appendix C

Approved Variance



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

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

Date: April 18, 2023
Subject: Soil Remediation Work Plan/Variance Request
Old Indian Draw Unit #001
Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297),
NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)
Eddy County, New Mexico

TX Engineering License # F-533
TX Geoscientist License # 50158

Mr. Velez
NMOCD
April 18, 2023

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- Table 2. 2023 Soil Analytical Results
- Table 3. 2023 Groundwater Analytical Results

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- Figure 2. Site Details Map
- Figure 3. Depth to Bedrock Confirmation Map

Photographic Logs

- Log 1. 2023 Photographic Log

Appendices

- Appendix A. Initial C-141 Form Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)
- Appendix B. Temporary Monitoring Well Boring Log
- Appendix C. Laboratory Analytical Reports

Mr. Velez
NMOCD
April 18, 2023

Dear Mr. Velez,

Arcadis U.S., Inc. (Arcadis) has prepared this Soil Remediation Work Plan/Variance Request on behalf of Chevron U.S.A. Inc. (Chevron), for proposed soil remediation activities at the Old Indian Draw Unit #001 (Site), located in Eddy County, New Mexico.

Background

The Site is located approximately 8-miles southeast of the City of Carlsbad in Unit Letter J, Section 18, Township 22 South, Range 28 East. The former Old Indian Draw Unit #001 is an approximate 2.5-acre restored former well pad and tank battery characterized by numerous active and inactive underground utilities that transect the Site. The underground utilities are anticipated to remain active until production operations cease in the area. 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 site location map is provided as **Figure 1**.

Four open incident numbers are associated with the Site. While environmental records suggest limited remediation activities were conducted at the Site, the incidents were not closed prior to restoring the well pad and tank battery facility. The following Incident numbers associated with the Old Indian Draw Unit #001 Site are being assessed concurrently:

1. Incident No: NKMW1105550129 (2RP-611) – listed under Chesapeake Operating, Inc.

On February 17, 2011, an equipment failure caused a release of approximately 70 barrels (bbls) of produced water, of which 60 bbls of produced water were recovered. The Initial C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) on February 18, 2011, and assigned remediation permit number 2RP-611.

2. Incident No: NMLB1226438559 (2RP-1297) – listed under Chesapeake Operating, Inc.

On August 20, 2012, an equipment failure caused a release of approximately 300 bbls of produced water, of which 170 bbls of produced water were recovered. The Initial C-141 Form was submitted to the NMOCD on September 10, 2012, and assigned remediation permit number 2RP-1297.

3. Incident No: NJMW1334440905 (2RP-2104) – listed under Chesapeake Operating, Inc.

On December 2, 2013, an equipment failure caused a release of approximately 80 bbls of produced water, of which 60 bbls of produced water were recovered. The Initial C-141 Form was submitted to the NMOCD on December 6, 2013, and assigned remediation permit number 2RP-2104. This location is included in the November 2018 Ongoing Corrective Actions/Remediations Agreed Compliance Order-Releases (ACO) between Chevron and NMOCD.

4. Incident No: NAB1433953640 (2RP-2644) – listed under Chevron U.S.A. Inc.

On October 18, 2014, a release of approximately 13 bbls of produced water and oil, of which 11 bbls of produced water and oil were recovered. The Initial C-141 Form was submitted to the NMOCD on December 3, 2014, and assigned remediation permit number 2RP-2644. This location is included in the November 2018 Ongoing Corrective Actions/Remediations ACO between Chevron and NMOCD.

Mr. Velez
NMOCD
April 18, 2023

Soil and groundwater assessment activities to further evaluate current site conditions associated with the four incidents were conducted in August 2021, March 2022, and resumed in January 2023 through the present date. Additional remediation activities are pending approval of this Work Plan/Variance Request. The four Initial C-141 Forms for this Site are included in **Appendix A**

Initial Soil Investigation

Between August 17-19, 2021, Larson & Associates, Inc. (Larson) conducted an initial assessment at the Site. During the initial assessment, soil samples were collected at depths ranging from 1 to 20 feet below ground surface (bgs) at 16 locations (S-1 through S-16) utilizing air rotary drilling methods. The collected soil samples were submitted to the laboratory for analysis of chloride; benzene, toluene, ethylbenzene, and xylenes (BTEX); and total petroleum hydrocarbons (Total TPH).

Laboratory analytical results indicated BTEX and Total TPH concentrations were below the applicable laboratory method detection limits (MDLs) in each of the submitted soil samples with the exception of minor detections for TPH (C12-C28 range) at a depth of 1 foot bgs at S-2 (182 milligrams per kilogram (mg/kg)), Total TPH at S-5 at 1 foot bgs (57.1 mg/kg), benzene (0.00515 mg/kg) and BTEX (0.0117 mg/kg) at S-7 at 1 foot bgs, and benzene (0.00437 mg/kg) and BTEX (0.00435 mg/kg and 0.0102 mg/kg) at S-13 at depths of 1 to 3 feet bgs. Vertical delineation in soil for BTEX and TPH constituents was achieved at all sampling locations. Analytical results indicated chloride concentrations ranged from 8.62 mg/kg in soil sample S-15 at 1-foot bgs to 13,600 mg/kg in soil sample S-8 at 10 feet bgs.

On March 8, 2022, Larson revisited the Site in an effort to further characterize chloride impacts. During the Site visit, an air rotary drill rig was utilized to install investigative soil borings proximate to 6 of the previously drilled locations characterized by soil samples that were above the NMOCD regulatory limit of 600 mg/kg for chloride (S-3, S-7, S-8, S-9, S-10, and S-12). The 6 borings were installed at depths ranging from 15 feet bgs to approximately 45 feet bgs. Soil borings S-7 and S-8 were installed in the center of the pad to approximately 45 feet bgs. Larson's assessment activities confirmed chloride impact to soil to depths of approximately 45 feet bgs in the areas characterized by soil borings S-7 and S-8, indicating potential groundwater impact from chloride. No detections for BTEX or TPH were reported in any soil samples collected from the 6 locations during this subsequent soil assessment.

Analytical results from the Larson assessment are depicted in **Table 1**. Soil boring locations completed by Larson are depicted on **Figure 2**.

Safety Concerns

Hydrogen sulfide concentrations have been documented as high as 40,000 parts per million (ppm) from nearby production facilities, and active ancillary fiberglass flow lines that transect the Site are inferred to contain similar concentrations. High consequence health and safety risks (explosion, nervous system impairment and death from concentrations as low as 100 ppm) associated with a potential release from damaged underground fiberglass flowlines and/or a line strike are an ongoing concern at this Site.

Hydro excavation activities began in January 2023 within the impacted areas in an effort to daylight and/or exhume the active underground utilities including numerous fiberglass crude oil flowlines, fiberglass produced water injection lines, electrical lines, and additional ancillary underground utilities associated with previous and

Mr. Velez
NMOCD
April 18, 2023

ongoing oil and gas production operations proximate to the former pad area. Multiple hydro excavation units are currently being utilized at the Site.

Risks of potential unanticipated/undetected damage to active underground fiberglass production lines by yellow iron type excavation activities within base rock material proximate to the fiberglass production lines are also a significant concern for continued operations within the well field.

Additional Field Activities Summary

Arcadis began additional soil assessment activities across the former pad area on January 23, 2023, utilizing a stainless-steel hand auger. During soil assessment activities, a resilient rock layer was encountered at depths ranging from approximately 1-foot to 2.5-feet bgs at all boring locations. The depth to resilient rock encountered during assessment activities throughout the Site is depicted on **Figure 3**.

Arcadis collected 62 soil samples (G-1 through G-62) in an approximate grid pattern across the former pad area at depths ranging from approximately six inches bgs to 2 feet bgs in an effort to further characterize the horizontal extent of chloride impacts at the Site. The collected soil samples were field screened for concentrations of chloride. Select soil samples that field screened below applicable screening limits for chloride (600 mg/kg) were submitted for analytical confirmation to Eurofins/Xenco Laboratories in Midland, Texas for BTEX, Total TPH and chloride analyses. The collection of soil samples from deeper intervals was precluded due to the presence of the resilient calcrete rock layer at all sample locations. The soil sample locations are depicted on **Figure 2**.

On February 13, 2023, Arcadis oversaw the installation of a temporary monitoring well (TW-1) at the Site. The temporary monitoring well was installed in the center of the pad approximately 10 feet northeast of the southern wellhead P&A marker at the Site. During the installation of the temporary monitoring well, soil samples were collected from select intervals for laboratory analysis of BTEX, Total TPH, and/or chloride. Laboratory analytical results from soil samples collected during the installation of the temporary monitoring well indicated chloride concentrations above NMOCD closure criteria in soil extend to the groundwater bearing unit encountered at approximately 46 feet bgs; BTEX and Total TPH concentrations were below the applicable laboratory MDLs in all soil samples analyzed for those constituents with the exception of a TPH Gasoline Range Organic (GRO C6-C10) detection at an estimated concentration of 31.1 mg/kg at a depth of approximately 5 feet bgs.

On February 16, 2023, the temporary monitoring well was developed utilizing Environmental Protection Agency (EPA) Standard Methods. Following development activities on the temporary monitoring well, a groundwater sample was collected and submitted to the laboratory for analysis of chloride, total dissolved solids (TDS), and BTEX concentrations. Laboratory analytical results indicated chloride and TDS concentrations were above the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards of 250 milligrams per liter (mg/L) for chloride and 1,000 mg/L for TDS. Chloride was reported at 10,400 mg/L and TDS was reported at 15,100 mg/L. BTEX constituents were not detected in groundwater above the applicable laboratory MDLs. A copy of the Temporary Monitoring Well Boring Log is provided as **Appendix B**.

One additional soil sample test trench (S-1) was installed with an excavator down to approximately 2 feet bgs (the top of the calcrete rock layer) northeast of the pad area on February 22, 2023, to further horizontal delineation of chloride impact to soil. The two soil samples collected from S-1 at depths of 1-foot bgs and 2 feet bgs were reported with chloride concentrations of 73.1 mg/kg and 357 mg/kg, respectively.

Evaluation of soil data collected to date confirmed horizontal delineation of the release area was accomplished in conjunction with the initial Larson soil assessment activities conducted in 2021 and 2022. Groundwater impacts

Mr. Velez
NMOCD
April 18, 2023

will be further evaluated and an Abatement Plan per NMAC 19.15.30 is anticipated to be submitted to the NMOCD for the Site following completion of soil remediation and reclamation activities.

Analytical results from the subsequent Arcadis soil assessments can be found in **Table 2**, groundwater analytical results from groundwater samples collected from the temporary monitoring well can be found in **Table 3**. The soil sample and temporary monitoring well locations installed by Arcadis are depicted on **Figure 2**. Current site conditions, utilities, and the resilient rock layer encountered are documented in the attached **Photographic Log** and on **Figure 3**. Laboratory analytical reports for soil and groundwater data collected are included in **Appendix C**.

Variance Request

Numerous active and inactive underground utilities have been identified throughout the site boundaries at depths ranging from approximately 3 to 4 feet bgs. Repeated attempts to break through the resilient calcrete rock layer encounter across the Site at depths ranging from approximately 1 foot bgs to 2.5 feet bgs utilizing a track hoe equipped with a trenching bucket and "rock teeth" yielded limited results following attempts at locations safely distanced from known underground utilities.

Continued excavation activities below the calcrete rock layer are believed not practicable based on the Site's geologic conditions and the associated high-risk potential to damage subsurface utilities which has the potential to cause harm to human health and the environment.

Analytical data collected during assessment activities confirm soil within the release area has been horizontally delineated for chloride, chloride impact to soil extends to the groundwater bearing unit, and that groundwater is impacted with chloride and TDS above applicable NMAC/ NMWQCC screening standards. Assessment activities confirm limited vertically delineated impacts above applicable screening standards for BTEX or TPH are currently present in surface soil but have not migrated to groundwater at the Site. BTEX and TPH concentrations detected in soil are not believed a risk to groundwater.

As such, Arcadis is requesting approval of the following Variance for soil remediation activities:

- Based on the size of the Site and the amount of initial assessment data, Arcadis requests a variance to increase the composite confirmation soil sampling frequency to 500 square feet for excavation base and sidewalls samples within the approximate 2.5-acre release area.
- Due to the abundance of buried fiberglass utilities containing high H₂S fluids and the resilient nature of the calcrete rock layer encountered throughout the release area, Arcadis is requesting a variance to limit excavation activities to include only removing impacted soil affected above the NMOCD Reclamation Standards present within the release area to the maximum extent practicable (to the surface of the calcrete rock layer).
- Should any impacted areas be confirmed to not be restricted by the calcrete rock layer and are not immediately adjacent to existing underground utilities, excavation activities will be continued to depths practical with standard excavation equipment.
- Following excavation of impacted soil affected above the NMOCD closure criteria, a layer of gypsum and/or a desalination product will be installed on the floor of the excavated area. This control is designed to inhibit the downward migration of chloride remaining in-situ.

Mr. Velez
NMOCD
April 18, 2023

- Arcadis requests approval to install a geosynthetic liner atop impacted areas exhibiting BTEX, TPH and/or chloride concentrations above the NMOCD Closure Criteria remaining in-situ. The liner will be installed atop the resilient calcrete rock layer and a connecting bentonite slurry liner will be installed below the existing underground utilities. This engineering control is designed to inhibit the vertical migration of site constituents of concern in soil to groundwater along with the upward migration of chloride to further support revegetation of the remediated area.
- Upon installing the geosynthetic liner, the excavated areas will be backfilled with locally sourced, non-impacted "like" material.
- Upon completion of remediation activities, the area will be reseeded with a BLM approved seed mixture during the first favorable growing season following closure of the Site.

Upon completion of the remediation and reclamation activities, a *Remediation Summary and Soil Closure Request* will be submitted to the NMOCD, containing a detailed summary of the field activities and laboratory analytical results.

If you have any questions or comments with regards to this work plan and variance request, please do not hesitate to contact Scott Foord at 713.953.4853 or by e-mail at William.Foord@arcadis.com.

Sincerely,
Arcadis U.S., Inc.



Scott Foord, PG
Program Manager

Tables

Table 1
2021/2022 Soil Analytical Results
Old Indian Draw Unit 001 Historical Release
Eddy County, New Mexico
32° 23' 26.79" North, 104° 07' 27.90" West

Page 1 of 4

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100			600	
S-1	1	8/17/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	249
	3	8/17/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	221
	5	8/17/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	372
	10	8/17/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	574
S-2	1	8/17/2021	In-Situ	<0.00200	<0.00399	<50.0	182	<50.0	182	909
	3	8/17/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	511
	5	8/17/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	470
S-3	1	8/17/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	994
	3	8/17/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	2,950
	5	8/17/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	2,340
	10	8/17/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	2,070
	15	8/17/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	1,730
	20	8/17/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	1,160
	25	3/10/2022	In-Situ	--	--	--	--	--	--	57.2
S-4	1	8/18/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	955
	3	8/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,140
	5	8/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	698
	10	8/18/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	502
S-5	1	8/18/2021	In-Situ	<0.00200	<0.00399	<50.0	57.1	<50.0	57.1	180
	3	8/18/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	514
	5	8/18/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	590
	8	8/18/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	405
S-6	1	8/18/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	1,200
	3	8/18/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	365
	5	8/18/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	142

Table 1
2021/2022 Soil Analytical Results
Old Indian Draw Unit 001 Historical Release
Eddy County, New Mexico
32° 23' 26.79" North, 104° 07' 27.90" West

Page 2 of 4

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100			600	
	10	8/18/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	40.9
S-7	1	8/18/2021	In-Situ	0.00515	0.0117	<50.0	<50.0	<50.0	<50.0	8,350
	3	8/18/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	8,180
	5	8/18/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	9,990
	10	8/18/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	6,270
	15	8/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	5,640
	20	3/8/2022	In-Situ	--	--	--	--	--	--	1,900
	25	3/8/2022	In-Situ	--	--	--	--	--	--	2,820
	30	3/8/2022	In-Situ	--	--	--	--	--	--	3,330
	35	3/8/2022	In-Situ	--	--	--	--	--	--	1,320
	40	3/8/2022	In-Situ	--	--	--	--	--	--	868
	45	3/8/2022	In-Situ	--	--	--	--	--	--	2,720
S-8	1	8/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	6,830
	3	8/18/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	7,210
	5	8/18/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	9,020
	10	8/18/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	13,600
	15	3/8/2022	In-Situ	--	--	--	--	--	--	2,230
	20	3/8/2022	In-Situ	--	--	--	--	--	--	1,610
	35	3/8/2022	In-Situ	--	--	--	--	--	--	4,830
	30	3/8/2022	In-Situ	--	--	--	--	--	--	3,290
	35	3/8/2022	In-Situ	--	--	--	--	--	--	2,030
	40	3/8/2022	In-Situ	--	--	--	--	--	--	1,080
	45	3/8/2022	In-Situ	--	--	--	--	--	--	1,310
S-9	1	8/18/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	146

Table 1
2021/2022 Soil Analytical Results
Old Indian Draw Unit 001 Historical Release
Eddy County, New Mexico
32° 23' 26.79" North, 104° 07' 27.90" West

Page 3 of 4

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100				600
	3	8/18/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	220
	5	8/18/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	2,250
	10	8/18/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	2,460
	15	3/9/2022	In-Situ	--	--	--	--	--	--	459
S-10	1	8/18/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	3,240
	3	8/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	3,450
	5	8/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	1,490
	10	8/18/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	1,870
	15	3/9/2022	In-Situ	--	--	--	--	--	--	1,490
	20	3/9/2022	In-Situ	--	--	--	--	--	--	5,320
	25	3/9/2022	In-Situ	--	--	--	--	--	--	401
S-11	1	8/18/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	25.5
	3	8/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	48.5
	5	8/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	65.5
S-12	1	8/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	2,670
	3	8/18/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	1,740
	5	8/18/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	2,060
	10	3/9/2022	In-Situ	--	--	--	--	--	--	791
	15	3/9/2022	In-Situ	--	--	--	--	--	--	162
S-13	1	8/19/2021	In-Situ	<0.00200	0.00435	<50.0	<50.0	<50.0	<50.0	556
	3	8/19/2021	In-Situ	0.00437	0.0102	<49.8	<49.8	<49.8	<49.8	497
	5	8/19/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	366
S-14	1	8/19/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	104
	3	8/19/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	477

Table 1
 2021/2022 Soil Analytical Results
 Old Indian Draw Unit 001 Historical Release
 Eddy County, New Mexico
 32° 23' 26.79" North, 104° 07' 27.90" West

Page 4 of 4

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100				600
S-15	1	8/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	8.62
	3	8/18/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	26.0
S-16	1	8/19/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	233
	3	8/19/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	454
	5	8/19/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	260
	10	8/19/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	244

Notes: Analysis performed by Xenco Laboratories (Xenco) in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

<: denotes concentration less than analytical method reporting limit

Bold and Highlighted exceeds OCD remediation action limits

Chevron
Table 2
2023 Soil Analytical Results - Arcadis
Old Indian Draw Unit 001
Eddy County, New Mexico



Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX					TPH				Gen Chem
					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 Screening Limit					10	--	--	--	50	--	--	--	100	600
G-01	0.5	01/23/2023	G-1-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	237
G-02	0.5	01/23/2023	G-2-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	16.5
G-03	0.5	01/23/2023	G-3-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	63.1
G-07	0.5	01/23/2023	G-7-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	357
G-11	0.5	01/23/2023	G-11-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	372
G-12	0.5	01/23/2023	G-12-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	80.7
G-14	0.5	01/23/2023	G-14-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	296
G-25	0.5	01/23/2023	G-25-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	54.4
G-26	0.5	01/23/2023	G-26-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	61.4
G-27	0.5	01/23/2023	G-27-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	257
G-28	0.5	01/23/2023	G-28-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	222
G-31	0.5	01/23/2023	G-31-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	28.8
G-32	0.5	01/23/2023	G-32-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	3850
G-33	0.5	01/23/2023	G-33-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	71.6
G-34	0.5	01/23/2023	G-34-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	72.7
G-35	0.5	01/27/2023	G-35-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	436
G-36	0.5	01/27/2023	G-36-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	25.3
G-37	0.5	01/27/2023	G-37-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	2.40J
G-38	0.5	01/27/2023	G-38-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	432
G-39	0.5	01/27/2023	G-39-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	672
G-41	0.5	01/27/2023	G-41-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	33.6
G-42	0.5	01/27/2023	G-42-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	2.97J
G-44	0.5	01/31/2023	G-44-S-0-6"-20230131	In-Situ	--	--	--	--	--	--	--	--	--	<5.03
G-45	0.5	01/31/2023	G-45-S-0-6"-20230131	In-Situ	--	--	--	--	--	--	--	--	--	5.16
G-55	1	02/02/2023	G-55-S-1'-20230202	In-Situ	--	--	--	--	--	--	--	--	--	100
G-58	0.5	02/08/2023	G-58-S-0-6"-20230802	In-Situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.8	<49.8	<49.8	<49.8	10.9
G-59	0.5	02/08/2023	G-59-S-0-06"-20230802	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	17.8
G-60	0.5	02/08/2023	G-60-S-0-6"-20230802	In-Situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.8	<49.8	<49.8	<49.8	<5.01
G-61	0.5	02/08/2023	G-61-S-06"-20230802	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<5.02
G-62	0.5	02/08/2023	G-62-S-0-6"-20230802	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<4.98
G-63	0.5	02/08/2023	G-63-S-0-6"-20230802	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<5.01
TW-1	0.5	02/13/2023	TW-1-S-0-0.5'-230213	In-Situ	--	--	--	--	--	--	--	--	--	975
TW-1	5	02/13/2023	TW-1-S-4-5'-230213	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	31.1J B	<15.0	<15.0	31.1J	275
TW-1	10	02/13/2023	TW-1-S-10'-230213	In-Situ	--	--	--	--	--	--	--	--	--	50.5
TW-1	15	02/13/2023	TW-1-S-15'-230213	In-Situ	--	--	--	--	--	--	--	--	--	485
TW-1	20	02/13/2023	TW-1-S-20'-230213	In-Situ	--	--	--	--	--	--	--	--	--	1850
TW-1	25	02/13/2023	TW-1-S-25'-230213	In-Situ	--	--	--	--	--	--	--	--	--	4230
TW-1	30	02/13/2023	TW-1-S-30'-230213	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<14.9	<14.9	<14.9	<14.9	4710
TW-1	35	02/13/2023	TW-1-S-35'-230213	In-Situ	--	--	--	--	--	--	--	--	--	3910
TW-1	40	02/13/2023	TW-1-S-40'-230213	In-Situ	--	--	--	--	--	--	--	--	--	1020
TW-1	45	02/13/2023	TW-1-S-45'-230213	In-Situ	--	--	--	--	--	--	--	--	--	1020
S-1	1	02/22/2023	S-1-S-1'-20230223	In-Situ	--	--	--	--	--	--	--	--	--	73.1
S-1	2	02/22/2023	S-1-S-2'-20230223	In-Situ	--	--	--	--	--	--	--	--	--	357

Legend:
Analytes exceedng NMAC standards are indicated in **bold** and grey
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)
mg/kg: Milligram per Kilogram
NMAC : New Mexico Administration Code
bgs: Below ground surface
B: Compound was found in the blank and sample
TW: Temporary well
G: Shallow soil sample
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)
NMOCD: New Mexico Oild Conservation Division
--: No individual standard

Chevron
Table 3
2023 Groundwater Analytical Results
Old Indian Draw Unit 001
Eddy County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride	Total Dissolved Solids
New Mexico Water Quality Control Commission Groundwater Standard							
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²	1,000
TW-1	2/16/23	<0.000408	<0.000367	<0.000657	<0.000642	10,400	15,100

Notes:

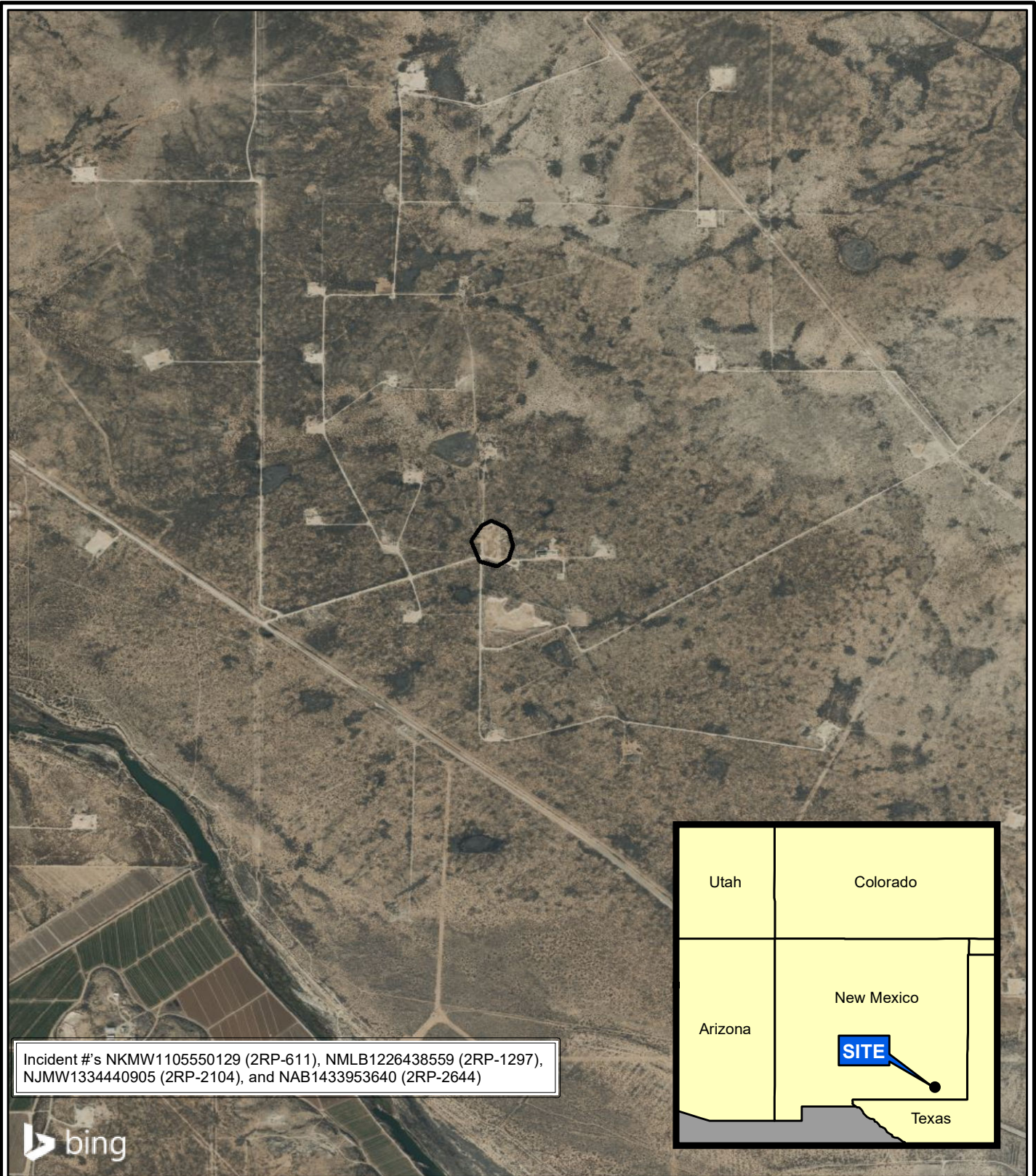
Results shown in mg/L.

¹Human Health Standards for Groundwater.

²Other Standards for Domestic Water Supply.

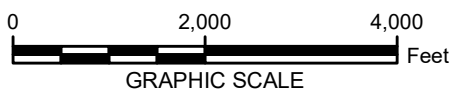
Figures

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\Old Unit #001_SLM.mxd 3/29/2023 2:18:13 PM



NOTES:
Datum: D_WGS_1984
Source: Bing Map
Site Location: 32.3925°, -104.1253°

LEGEND:
 Site Location



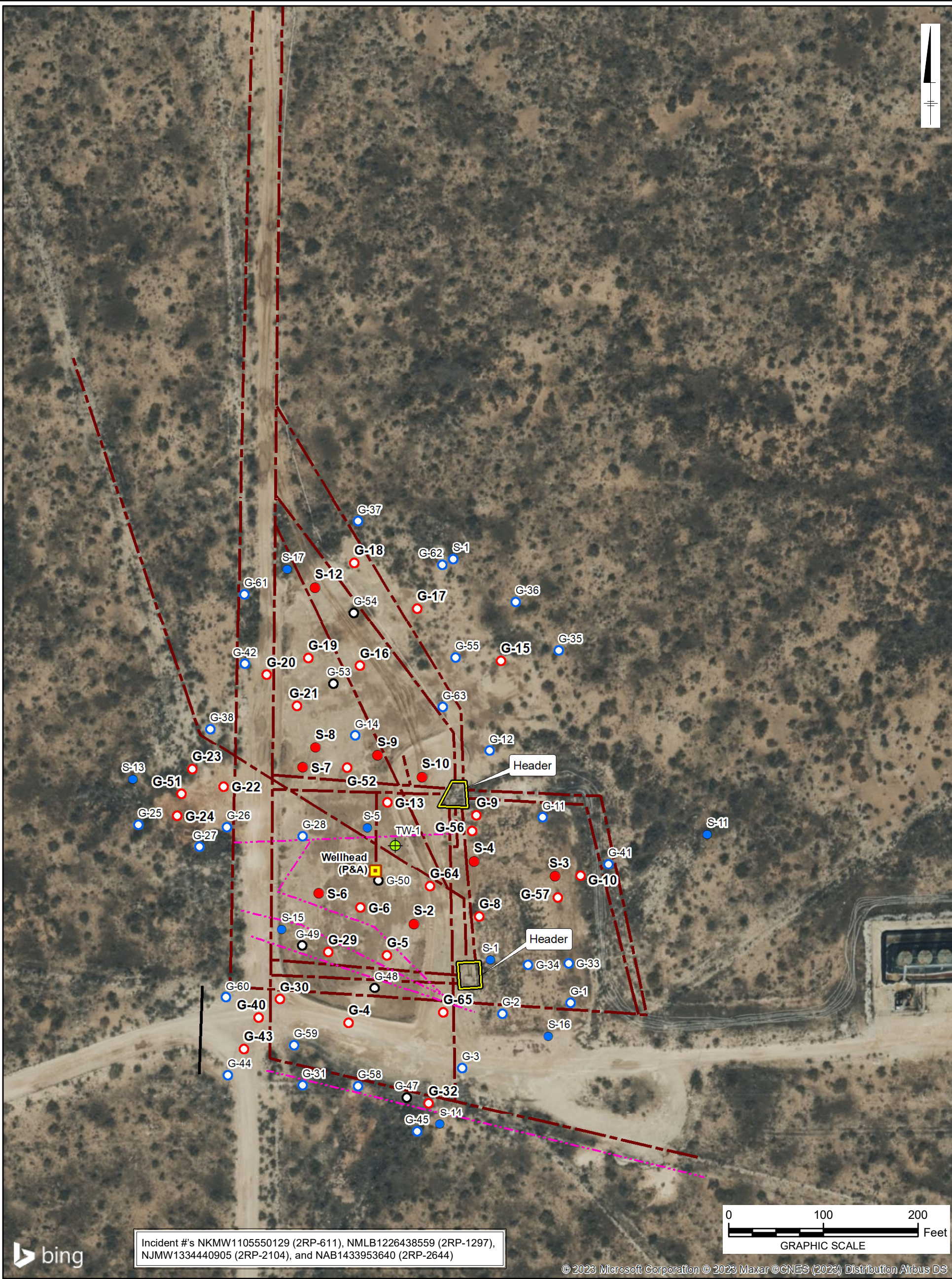
MCBU
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP



FIGURE
1

City: Div/Group: Created By: Last Saved By: wberry
Project (Project #)
D:\Arcadis\Land Services\Chevron\Old_Indian_Draw\GIS\OID Unit #001_rev1.mxd 4/4/2023 2:33:57 PM



Legend

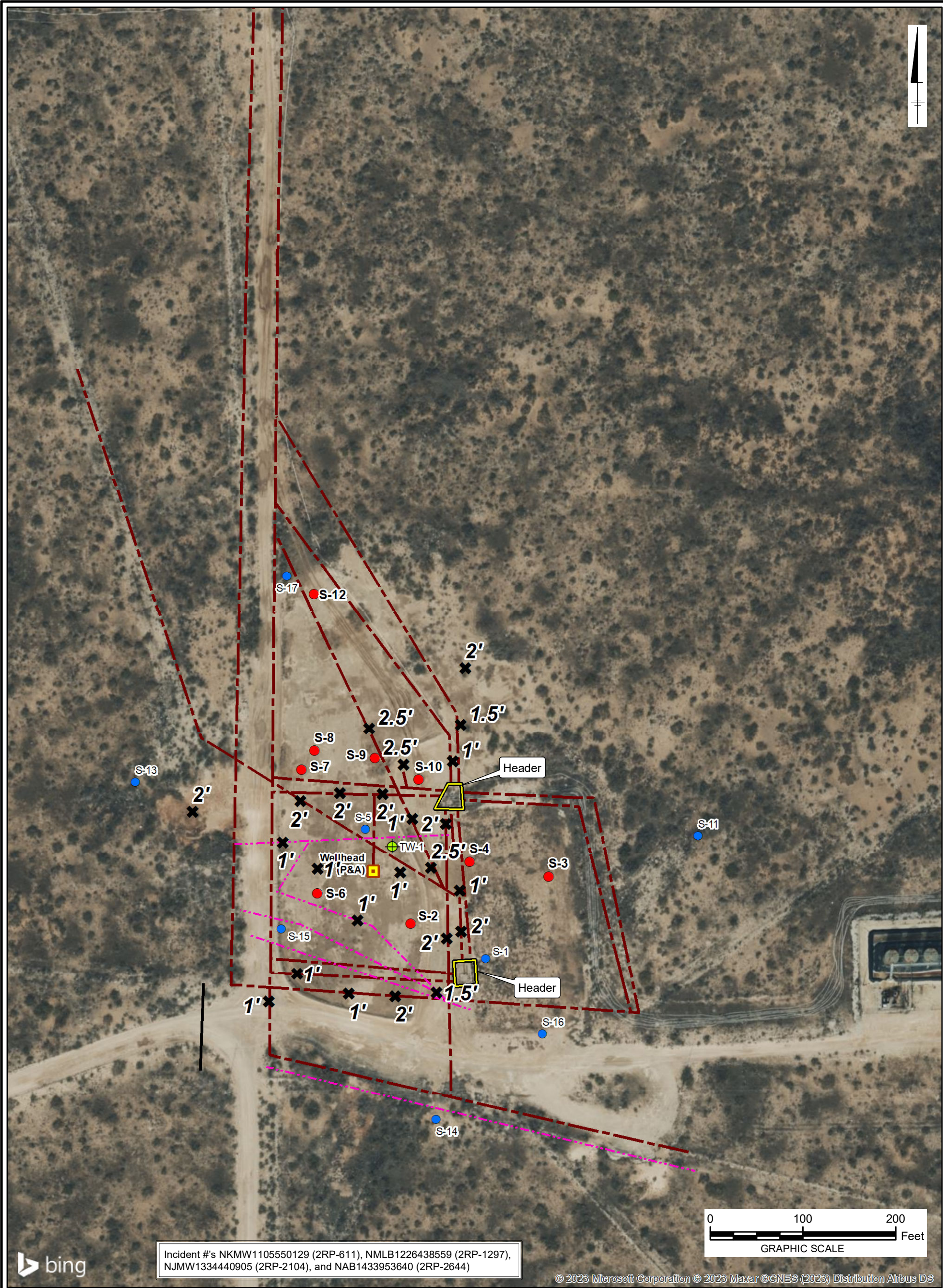
- 2021/2022 Sample Locations (above 600 mg/kg chloride)
- 2021/2022 Sample Locations (below 600 mg/kg chloride)
- 2023 Field Screening Sample locations (above 600 mg/kg chloride)
- 2023 Sample locations (below 600 mg/kg chloride)
- No Screening Results/ Encountered Rock (proposed >6")
- Temporary Monitor Wells
- Production Lines
- Electrical
- Unknown

MCBU
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

SITE DETAILS MAP

FIGURE
2

City: Div/Group: Created By: Last Saved By: wberry
Project (Project #)
D:_Arcadis\Land Services\Chevron\Old_Indian_Draw\GIS\OID Unit #001_depth.mxd 4/4/2023 2:14:50 PM



Legend

- 2021/2022 Sample Locations (above 600 mg/kg chloride)
- 2021/2022 Sample Locations (below 600 mg/kg chloride)
- Temporary Monitor Wells
- Depth to Bedrock
- Production Lines
- Electrical
- Unknown

MCBU
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

DEPTH TO BEDROCK
CONFIRMATION MAP

ARCADIS

FIGURE
3

Photographic Log



PHOTOGRAPHIC LOG

Property Name: Old Indian Draw Unit 001		Location: Eddy County, NM	Case No. NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)
Photo No. 1	Date: 03/20/2023		
Direction Photo Taken: Facing NW			
Description: View of hydro-excavated area proximate to the northern header area on pad within the release area. Depth to calcrete rock layer ranging from 1 to 1.5 feet bgs.			



PHOTOGRAPHIC LOG

Property Name: Old Indian Draw Unit 001		Location: Eddy County, NM	Case No. NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)
Photo No. 2	Date: 03/20/2023		
Direction Photo Taken: Facing NE			
Description: View of active polylines and crossing abandoned steel line. Depth to calcrete rock layer ranging from 1 to 1.5 feet bgs.			



PHOTOGRAPHIC LOG

Property Name: Old Indian Draw Unit 001		Location: Eddy County, NM	Case No. NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)
Photo No. 3	Date: 02/10/2023		
Direction Photo Taken: Facing E			
Description: View of southern header location. Active lines at 2 feet bgs.			



PHOTOGRAPHIC LOG

Property Name: Old Indian Draw Unit 001		Location: Eddy County, NM	Case No. NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)
Photo No. 4	Date: 02/10/2023		
Direction Photo Taken: Facing N			
Description: Active lines located east of northern header at 2.5 feet bgs.			



PHOTOGRAPHIC LOG

Property Name: Old Indian Draw Unit 001		Location: Eddy County, NM	Case No. NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)
Photo No. 5	Date: 02/10/2023		
Direction Photo Taken: Facing NW			
Description: View of active fiberglass lines, abandoned electrical, and calcrete rock layer at depths ranging from 1 to 1.5 feet bgs.			



PHOTOGRAPHIC LOG

Property Name: Old Indian Draw Unit 001		Location: Eddy County, NM	Case No. NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)
Photo No. 6	Date: 02/10/2023		
Direction Photo Taken: N			
Description: Well head marker in the center of pad.			

Appendix A

Initial C-141 Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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FEB 18 2011

NMOCD ARTESIA

Form C-141
Revised October 10, 2003

2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

30-015-20918

Release Notification and Corrective Action

KMW 1105550129

147179 OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	CHESAPEAKE OPERATING, INC.	Contact	BRADLEY BLEVINS
Address	P. O. BOX 190 HOBBS, NM 88241	Telephone No.	575-391-1462
Facility Name	Old Indian Draw Unit 1	Facility Type	Tank Battery
Surface Owner	Mineral Owner	Lease No.	

LOCATION OF RELEASE API #30-015-20918

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22S	28E	1980	SOUTH	1980	EAST	EDDY

Latitude Longitude

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	70 BBLS	Volume Recovered	60 BBLS
Source of Release	Tank valve corroded and broke	Date and Hour of Occurrence	2/17/11 9:00 a.m.	Date and Hour of Discovery	2/17/11 10:00 A.M.
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?			
By Whom?	Bradley Blevins	Mike Bratcher			
Was a Watercourse Reached?	☐ Yes ☒ No	Date and Hour 2/17/11 3:05 PM			
		If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

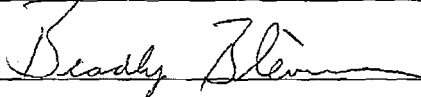
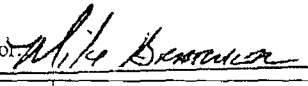
Describe Cause of Problem and Remedial Action Taken.*

Valve to water tank corroded and broke releasing 70 BBLS of produced water into the containment area and onto the location. Vacuum trucks were used to recover free fluids.

Describe Area Affected and Cleanup Action Taken.*

10 BBLS of produced water were lost. Upon completion of delineation and remediation activities a final C-141 and lab data will be furnished to the OCD.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins	Approved by District Supervisor Signed By 	
Title: HSE Specialist	Approval Date: 3/3/11	Expiration Date:
E-mail Address: Bradley.blevins@chk.com	Conditions of Approval:	Attached ☐
Date: 2/18/11 Phone: 575-391-1462	Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: 4/3/11	

* Attach Additional Sheets If Necessary

2RP-611

Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]
Sent: Friday, February 18, 2011 5:19 PM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey
Subject: Chesapeake-Old Indian Draw Unit No. 1
Attachments: Initial C-141-Old Indian Draw Unit #1.pdf

Mike,

Please find attached the initial C-141 for the above referenced well site release.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland Blvd.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-mail: cbrunson@bbcinternational.com
Web: www.bbcinternational.com

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by collect telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]
Sent: Friday, February 18, 2011 5:28 PM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey; James A. Amos; Terry Gregston
Subject: Chesapeake-Old Indian Draw Unit No. 1
Attachments: Initial C-141-Old Indian Draw Unit #1.pdf

Mike,

Please find attached the initial C-141 for the above referenced well site release.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland Blvd.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-mail: cbrunson@bbcinternational.com
Web: www.bbcinternational.com

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District I
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1301 W. Grand Avenue, Artesia, NM 88210
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1220 S. St. Francis Dr., Santa Fe, NM 87505

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

RECEIVED

SEP 10 2012

NMOCD ARTESIA

Form C-141
Revised October 10, 2003

Station 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action**NMLB 1226438559****OPERATOR**☒ Initial Report ☐ Final Report

Name of Company: Chesapeake Energy	147179	Contact: Bradley Blevins
Address: 5014 Carlsbad Highway		Telephone No.: (575) 391-1462 ext. 86424
Facility Name: Old Indian Draw Unit Battery		Facility Type: Tank Battery

Surface Owner: Federal Government	Mineral Owner: Federal Government	Lease No.: NM-0415688-A
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LOCATION OF RELEASE**30-015-20918**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22 S	28 E					Eddy

Latitude: N 32° 23' 26.01" Longitude: W 104° 07' 28.58"**NATURE OF RELEASE**

Type of Release: Produced Water	Volume of Release: ~300 bbls	Volume Recovered: ~170 bbls
Source of Release: Nipple on produced water line	Date and Hour of Occurrence: August 30, 2012 @ ~08:30 hrs	Date and Hour of Discovery: August 30, 2012 @ ~08:30 hrs
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher, NMOCD; James Amos BLM	
By Whom? Bradley Blevins	Date and Hour: August 30, 2012 @ ~08:30 hrs	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse: Not Applicable	
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
Depth to Groundwater: ~50 feet		
Describe Cause of Problem and Remedial Action Taken.* A one-inch nipple ruptured releasing approximately 300 bbls of produced water. Approximately 170 bbls were recovered via vacuum truck. An Emergency Response Team arrived at the release area and began continuous abatement of the impacted area.		
Describe Area Affected and Cleanup Action Taken.* Approximately 12,730 square feet of area was affected by the release of produced water. Visibly stained soil was excavated and hauled away for disposal at a state approved facility. Soil samples were collected and submitted to Cardinal Laboratories for testing. Upon receiving acceptable results and NMOCD approval, the affected area will be backfilled, and returned to proper conditions.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

OIL CONSERVATION DIVISIONSignature: *Bradley Blevins*

Printed Name: Bradley Blevins

Title: EH & S Field Specialist

E-mail Address: bradley.blevins@chk.com

Date: 9-10-12 Phone: (575) 391-1462, #86424Approved by District Supervisor:
Signed By *Mike Bratcher*Approval Date: **SEP 20 2012**

Expiration Date:

Conditions of Approval:

Attached ☐

Remediation per OCD Rules &
Guidelines. **SUBMIT REMEDIATION
PROPOSAL NOT LATER THAN:**
10/20/2012

2RA-1297

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Bradley Blevins <bradley.blevins@chk.com>
Sent: Monday, September 10, 2012 9:22 AM
To: Amos, James A (jamos@blm.gov); Bratcher, Mike, EMNRD
Cc: Bradley Blevins
Subject: Old Indian Draw Unit 1- Initial C-141
Attachments: 20120910091924109.pdf

Please find the attached initial C-141 for the release on the Old Indian Draw Unit. If you have any questions please let me know.

Thanks,

Bradley Blevins
EH & S Field Specialist
DAR
Hobbs Field Office
North Permian Division
Office: (575) 391-1462 x 86424
Cell: (575) 441-0341
Fax: (575) 391-6679



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Bratcher, Mike, EMNRD

From: Bradley Blevins <bradley.blevins@chk.com>
Sent: Thursday, August 30, 2012 9:18 AM
To: Bratcher, Mike, EMNRD; Amos, James A (jamos@blm.gov); James_Amos@blm.gov
Cc: Bradley Blevins; Daniel Dominguez (ddominguezepi@gmail.com)
Subject: Old Indian Draw UT 1 CTB- Release

Mike/ Jim

Chesapeake had a release this am at 8:30 am on the Old Indian Draw UT CTB. A one inch nipple ruptured releasing produced water to the ground surface, pumpers are still investigating the amount of fluid lost and have vacuum truck in route to recover the fluid on location. Environmental plus crew has been dispatched to the release to start clean up phase, once we have all the details we will follow up with a C-141. If you have any questions please let me know.

Thanks,

Bradley Blevins
EH & S Field Specialist
DAR
Hobbs Field Office
North Permian Division
Office: (575) 391-1462 x 86424
Cell: (575) 441-0341
Fax: (575)391-6679



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

RECEIVED	Form C-141
	Revised October 10, 2003
	Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form
	DEC 06 2013
NMOCD ARTESIA	

Release Notification and Corrective Action

Operator ☒ Initial Report ☐ Final Report	
Name of Company Chevron Delaware Basin 4323	Contact Bradley Blevins
Address PO Box 190, Hobbs, NM 88241	Telephone No. (575) 391-1462
Facility Name Old Indian Draw CTB	Facility Type Gathering
Surface Owner BLM	Mineral Owner API # 30-015-20918(nearest well)

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22S	28E	1980	South	1980	East	Eddy County, NM

Latitude N 32.39060° Longitude W 104.12463°

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 80 bbls	Volume Recovered 60 bbls
Source of Release Triplex pump failure	Date and Hour of Occurrence 12/02/2013 @ 10:00 am	Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher- NMOCD, James Amos- BLM	
By Whom? Bradley Blevins	Date and Hour 12/02/2013 @ 3:00 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

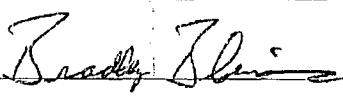
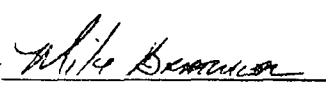
Describe Cause of Problem and Remedial Action Taken.*

A triplex pump failure caused 80 bbls of produced water to leak onto the ground. 60 bbls of fluid were recovered via vacuum truck and the pump was repaired.

Describe Area Affected and Cleanup Action Taken.*

A triplex pump failure caused 80 bbls of produced water to leak onto the ground. 60 bbls of fluid were recovered via vacuum truck and the pump was repaired. Further remediation will be performed in accordance with a remediation plan approved by NMOCD and the BLM.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins	Approved by District Supervisor	Signed By 
Title: HE Specialist	Approval Date: DEC 10 2013	Expiration Date:
E-mail Address: Bradley.blevins@chn.com	Conditions of Approval:	Attached ☐
Date: 12/16/13	Phone: (575) 391-1462	

* Attach Additional Sheets If Necessary

Remediation per OCD Rule & Guidelines, &
like approval by BLM. **SUBMIT REMEDIATION**

PROPOSAL NO LATER THAN:

January 10, 2013**2RP-2104**

Bratcher, Mike, EMNRD

From: Kathy Purvis <kathy@bbcinternational.com>
Sent: Friday, December 06, 2013 8:48 AM
To: Bratcher, Mike, EMNRD; jamos@blm.gov
Cc: 'Bradley Blevins'; cbrunson@bbcinternational.com; kswinney@bbcinternational.com; jgilkey@bbcinternational.com
Subject: Initial C-141s, Littlefield Federal SWD #1 and Old Indian Draw CTB
Attachments: Initial C-141, Littlefield Federal SWD #1.pdf; Initial C-141, Old Indian Draw CTB.pdf

Attached are the initial C-141s for leaks that occurred at the Littlefield Federal SWD #1 on 12/01/2013 and the Old Indian Draw CTB on 12/02/2013 in Eddy County, NM. Receipt notification via email is greatly appreciated.

Kathy Purvis

BBC International, Inc.
1324 W. Marland
Hobbs, NM 88240
Phone: (575) 397-6388
Fax: (575) 397-0397
Email: kathy@bbcinternational.com

Bratcher, Mike, EMNRD

From: Blevins, Bradley G <Bradley.Blevins@chevron.com>
Sent: Monday, December 02, 2013 2:56 PM
To: Bratcher, Mike, EMNRD; 'Amos, James'
Cc: Blevins, Bradley G
Subject: Old Indian Draw Unit CTB- Release

Mike/ Jim

Chevron had a release at the OIU CTB. Bolts sheared on triplex pump causing packing to blow out, 80 barrels of produced water was released to the location pad. 60 barrels was recovered by vacuum truck, Cliff Brunson will follow up with a initial C-141. If you have any questions please let me know.

Thanks



Bradley Blevins
Chevron Delaware Basin
HF Specialist
Hobbs FMT
Direct 575-391-1462 86424
Cell- 575-441-0341

DEC 03 2014

District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Avenue, Artesia, NM 88210
District III
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1220 S. St. Francis Dr., Santa Fe, NM 87505

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Energy Minerals and Natural Resources

Oil Conservation Division
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District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

NAB14339531040 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company: Chevron <u>4323</u>	Contact: Stephen Gwin
Address: 2401 Avenue 'O' Eunice, NM 88231	Telephone No.: (575) 263 - 0427
Facility Name: Indian Draw Tank Battery	Facility Type: tank battery

Surface Owner: BLM	Mineral Owner:	API: <u>30-015-20918</u>
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22S	28E					Eddy

Latitude: N 32° 23' 26.79" Longitude: W 104° 7' 27.90" 32-390775
104.124417

NATURE OF RELEASE

Type of Release: produced water and oil	Volume of Release: ~13 bbls	Volume Recovered: ~11 bbls
Source of Release: valve was left open and fluid gravity fed to the ground	Date and Hour of Occurrence: 10/18/14 @ am	Date and Hour of Discovery: 10/18/14 @ 5:00 am
Was Immediate Notice Given? ☒ Yes ☐ No ☒ Not Required	If YES, To Whom? Mike Bratcher, NMOCD	
By Whom? Stephen Gwin	Date and Hour: 10/20/14	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse: Not Applicable	
Depth to Water. ~25 ft bgs		
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
Describe Cause of Problem and Remedial Action Taken.* Approximately 13 bbls of produced water and oil were released when a valve was left open and fluid gravity fed to the ground. A vacuum truck was dispatched to pick up any free standing liquids. Approximately 11 bbls were recovered.		
Describe Area Affected and Cleanup Action Taken.* Approximately 3,000 square feet of surface area was impacted by the release. This tank battery is scheduled to be replaced in February 2015 with construction of the new battery location currently underway. Chevron proposes the stained caliche in the area of the release be removed, hauled to state approved disposal facility, and replaced with clean caliche. Full remediation of the old tank battery area shall occur when the new tank battery comes online. At that time soil samples will be collected from the area and submitted to Cardinal Laboratories for testing. Upon receipt of laboratory analytical data from soil samples to be collected during delineation operations, EPI will prepare and present a Remediation Proposal for NMOCD approval.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: <u>Stephen Gwin</u>	OIL CONSERVATION DIVISION	
Printed Name: Stephen Gwin	Signed By <u>Mike Bratcher</u>	
Title: HE Specialist	Approved by District Supervisor:	
E-mail Address: <u>stephen.gwin@chevron.com</u>	Approval Date: <u>12/4/14</u>	Expiration Date: <u>N/A</u>
Date: _____ Phone: (575) 263-0427	Conditions of Approval: ☐ Attached ☐	
Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: <u>1/4/15</u>		

* Attach Additional Sheets If Necessary
Site Tanking 20

2RP-2644

Bratcher, Mike, EMNRD

From: Daniel Dominguez <ddominguezepi@gmail.com>
Sent: Wednesday, December 03, 2014 3:50 PM
To: Bratcher, Mike, EMNRD; jamos@blm.gov; Gwin, Stephen
Subject: Indian Draw Tank Battery Initial C-141
Attachments: Indian Draw Tank Battery Initial C-141.pdf

Gentlemen,

Attached for your review is the Initial C-141 for the Indian Draw Tank Battery operated by Chevron.

This tank battery is scheduled to be replaced in February 2015 with construction of the new battery location currently underway. Chevron proposes the stained caliche in the area of the release be removed, hauled to state approved disposal facility, and replaced with clean caliche. Full remediation of the old tank battery area shall occur when the new tank battery comes online.

--

Sincerely,
ENVIRONMENTAL PLUS, INC.

Daniel Dominguez
Environmental Consultant/Safety Director

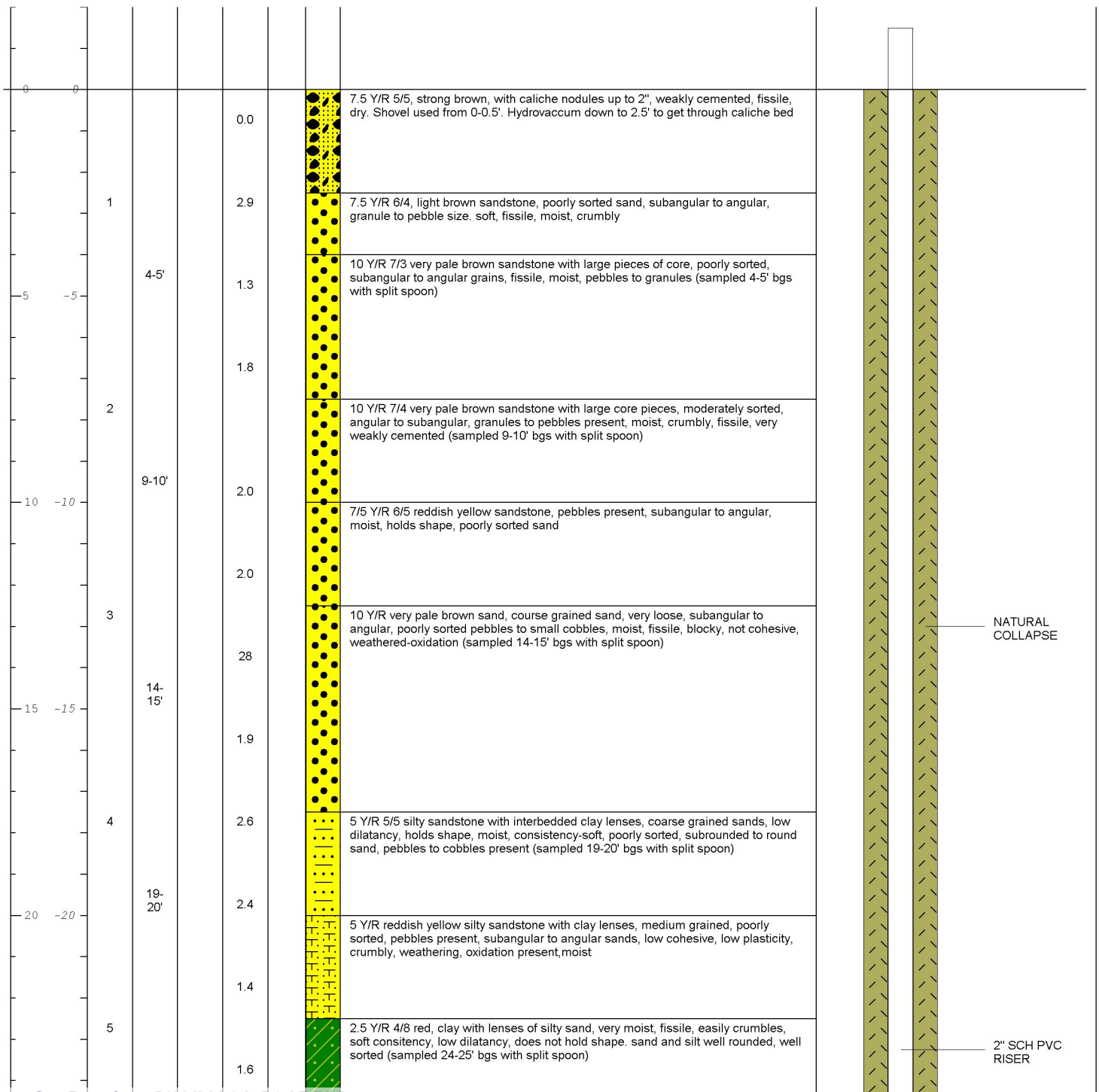
Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue 'O'
Eunice, NM 88231
(575) 631-0401 (Cell)
(575) 394-3481 (Office)
(575) 394-2601 (fax)

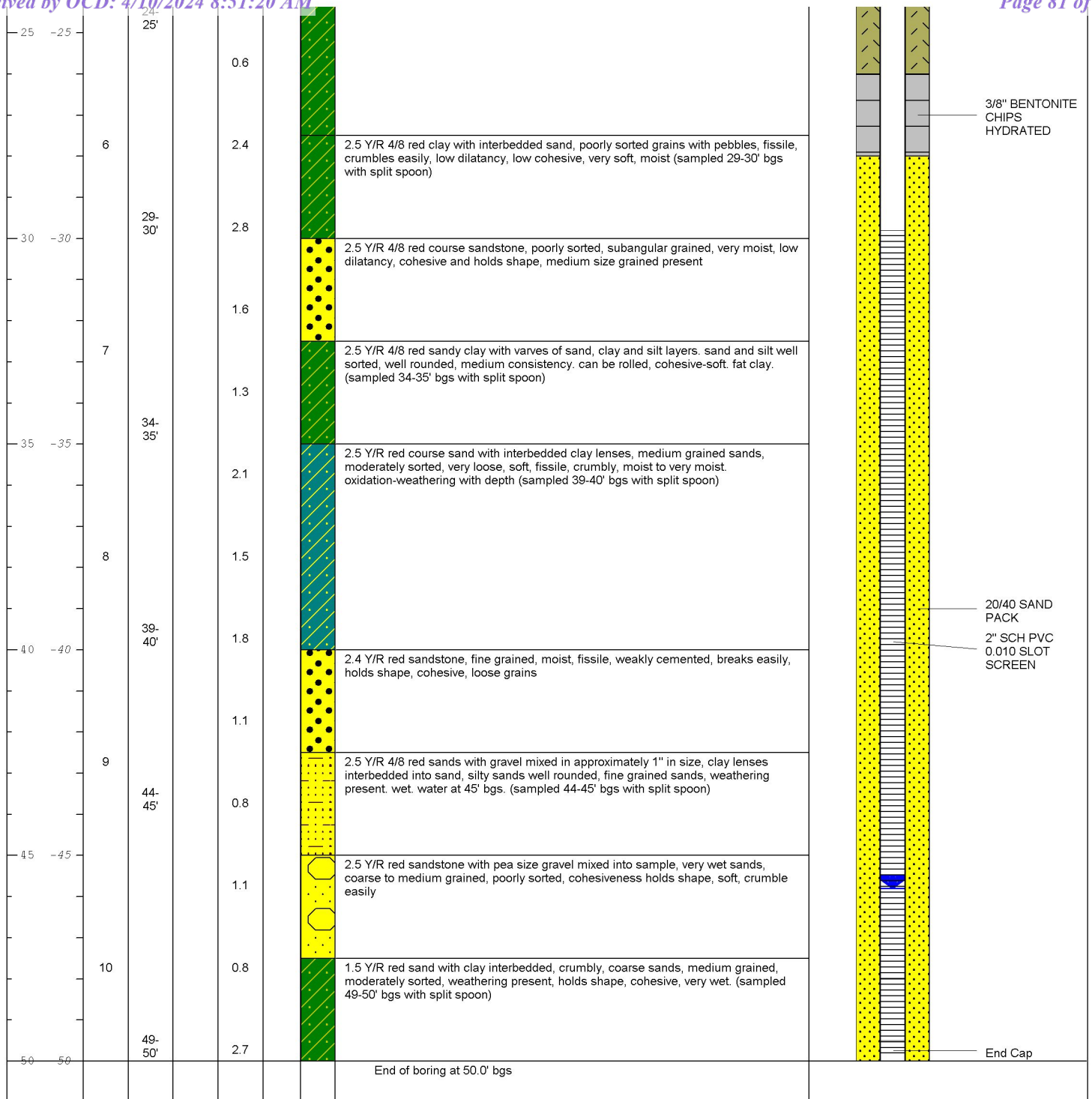
Appendix B

Temporary Monitoring Well Boring Log

Date Start/Finish: 2/13/2023	Latitude: 32.390881	Well/Boring ID: TW-1
Drilling Company: White Drilling Company, Inc.	Longitude: -104.12482	Client: Chevron-MCBU
Driller's Name: Bo Atkins	Casing Elevation: NS	Location: Old Indian Draw Unit #001 Carlsbad, New Mexico
Drilling Method: Air Rotary/ Split Spoon	Borehole Depth: 50'	
Sampling Method: Grab	Surface Elevation: NS	
	Descriptions By: Heather Dudley	

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Remarks: bgs= below ground surface; TD= total depth; DTW= depth to water; NS=not surveyed; top of casing approximately 1.5' above ground surface



Design & Consultancy
for natural and
built assets

Project: 30166791

Template: LPTEMPLATE_Well_Construction_Final

Page: 2 of 2

Data File: Old Indian Draw

Date: 2/21/2023

Created/Edited by: Trang Pham

Appendix C

Laboratory Analytical Reports

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

Appendix D

2023 Soil Remediation Photographic Log



PHOTOGRAPHIC LOG

Property Name: Old Indian Draw Unit #001		Location: Eddy County, NM	Case No. NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640
Photo No. 1	Date: 08/23/2022		
Direction Photo Taken: NW			
Description: Excavation to rock layer			



PHOTOGRAPHIC LOG

Property Name: Old Indian Draw Unit #001		Location: Eddy County, NM	Case No. NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640
Photo No. 2	Date: 09/20/2022		
Direction Photo Taken: NE			
Description: Lined excavation			



PHOTOGRAPHIC LOG

Property Name: Old Indian Draw Unit #001		Location: Eddy County, NM	Case No. NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640
Photo No. 3	Date: 09/20/2022		
Direction Photo Taken: NE			
Description: Gypsum spread on lines and excavation			



PHOTOGRAPHIC LOG

Property Name: Old Indian Draw Unit #001		Location: Eddy County, NM	Case No. NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640
Photo No. 4	Date: 09/20/2022		
Direction Photo Taken: E			
Description: Gypsum spread on excavation prior to backfill			

		PHOTOGRAPHIC LOG	
Property Name: Old Indian Draw Unit #001		Location: Eddy County, NM	
		Case No. NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640	
Photo No. 5	Date: 09/20/2022	Sep 20, 2023 at 11:23:55 AM Carlsbad NM 88220 United States	
Direction Photo Taken: E			
Description: Hydrating the liner			

		PHOTOGRAPHIC LOG	
Property Name: Old Indian Draw Unit #001		Location: Eddy County, NM	
		Case No. NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640	
Photo No. 6	Date: 09/23/2022		
Direction Photo Taken: NW			
Description: Backfilled excavation prior to seeding			



PHOTOGRAPHIC LOG

Property Name: / Old Indian Draw Unit #001		Location: Eddy County, NM	Case No. NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640
Photo No. 7	Date: 09/21/2022		
Direction Photo Taken: N			
Description: Seeding locations			

Appendix E

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/24/2023 4:49:34 PM Revision 1

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER 88001630

JOB NUMBER

890-4177-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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

Generated
3/24/2023 4:49:34 PM
Revision 1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Laboratory Job ID: 890-4177-1
SDG: 88001630

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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.
α	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
REL	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Eurofins Carlsbad

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Job ID: 890-4177-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4002-2****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-S-0-6' 20230131 (890-4002-1), L-12-S-0-6' 20230131 (890-4002-2), L-13-S-0-6' 20230131 (890-4002-3), L-14-S-0-6' 20230131 (890-4002-4), L-15-S-0-6' 20230131 (890-4002-5), L-16-S-0-6' 20230131 (890-4002-6), L-17-S-0-6' 20230131 (890-4002-7), L-18-S-0-6' 20230131 (890-4002-8), L-19-S-0-6' 20230131 (890-4002-9), L-20-S-0-6' 20230131 (890-4002-10), L-21-S-0-6' 20230131 (890-4002-11), C-1-S-0-6' 20230131 (890-4002-12), L-1-S-0-6' 20230131 (890-4002-13), L-2-S-0-6' 20230131 (890-4002-14), L-3-S-0-6' 20230131 (890-4002-15), L-5-S-0-6' 20230131 (890-4002-16), L-6-S-0-6' 20230131 (890-4002-17), L-7-S-0-6' 20230131 (890-4002-18), L-8-S-0-6' 20230131 (890-4002-19), L-9-S-0-6' 20230131 (890-4002-20), L-10-S-0-6' 20230131 (890-4002-21), G-44-S-0-6' 20230131 (890-4002-22) and G-45-S-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
890-4009-1****Receipt**

The sample was received on 2/2/2023 4:04 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.8°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: G-55-S-1'-20230202 (890-4009-1).

HPLC/IC

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

Narrative**Job Narrative
890-4069-1****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: G-61-S-06'-20230802 (890-4069-1), G-62-S-0-6'-20230802 (890-4069-2), G-58-S-0-6'-20230802 (890-4069-3), G-59-S-0-06'-20230802 (890-4069-4), G-60-S-0-6'-20230802 (890-4069-5) and G-63-S-0-6'-20230802 (890-4069-6).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: G-61-S-06'-20230802 (890-4069-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Job ID: 890-4177-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: G-61-S-06'-20230802 (890-4069-1), G-62-S-0-6'-20230802 (890-4069-2), G-58-S-0-6'-20230802 (890-4069-3), (890-4069-A-1-G MS) and (890-4069-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: G-63-S-0-6'-20230802 (890-4069-6). 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).

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-46071 and analytical batch 880-46062. The associated laboratory control sample (LCS) met acceptance criteria.

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 890-4177-1

REVISION

The report being provided is a revision of the original report sent on 3/1/2023. The report (revision 1) is being revised due to Revised report to create merged PDF and EDD for the site..

Report revision history

Receipt

The samples were received on 2/22/2023 3:59 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 11.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1-S-1'-20230223 (890-4177-1) and S-1-S-2'-20230223 (890-4177-2).

HPLC/IC

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

Laboratory: Eurofins Midland

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Job ID: 890-4177-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Narrative

Job Narrative
880-24087-1

Receipt
The samples were received on 1/25/2023 11:47 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C

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

Narrative

Job Narrative
880-24257-1

Receipt
The samples were received on 2/2/2023 11:50 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 4.6°C

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

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

Narrative

Job Narrative
880-24739-1

REVISION

The report being provided is a revision of the original report sent on 2/15/2023. The report (revision 1) is being revised due to Activated on hold samples per client request.

Report revision history

Receipt
The samples were received on 2/14/2023 4:00 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 5.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: TW-1-S-0-0.5-230213 (880-24739-1), TW-1-S-4-5-230213 (880-24739-2), TW-1-S-10-230213 (880-24739-3), TW-1-S-15-230213 (880-24739-4), TW-1-S-20-230213 (880-24739-5), TW-1-S-25-230213 (880-24739-6), TW-1-S-30-230213 (880-24739-7), TW-1-S-35-230213 (880-24739-8), TW-1-S-40-230213 (880-24739-9) and TW-1-S-45230213 (880-24739-10).

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

GC Semi VOA

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Job ID: 890-4177-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46823 and analytical batch 880-46829 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.

Narrative

Job Narrative 880-24871-1

Receipt

The samples were received on 2/17/2023 8:45 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 5.1°C

GC 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.

General Chemistry

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 Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-3-S-0-6"-20230123

Lab Sample ID: 880-24087-1

Date Collected: 01/23/23 13:00

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.1		5.05	0.399	mg/Kg			01/29/23 12:49	1

Client Sample ID: G-1-S-0-6"-20230123

Lab Sample ID: 880-24087-2

Date Collected: 01/23/23 12:30

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		5.00	0.395	mg/Kg			01/29/23 13:03	1

Client Sample ID: G-2-S-0-6"-20230123

Lab Sample ID: 880-24087-3

Date Collected: 01/23/23 12:40

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.5		4.99	0.394	mg/Kg			01/29/23 13:08	1

Client Sample ID: G-11-S-0-6"-20230123

Lab Sample ID: 880-24087-4

Date Collected: 01/23/23 13:10

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	372		4.95	0.391	mg/Kg			01/29/23 13:13	1

Client Sample ID: G-12-S-0-6"-20230123

Lab Sample ID: 880-24087-5

Date Collected: 01/23/23 13:20

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.7		4.97	0.393	mg/Kg			01/29/23 13:18	1

Client Sample ID: G-14-S-0-6"-20230123

Lab Sample ID: 880-24087-6

Date Collected: 01/23/23 13:30

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	296		5.05	0.399	mg/Kg			01/29/23 13:33	1

Client Sample ID: G-25-S-0-6"-20230123

Lab Sample ID: 880-24087-7

Date Collected: 01/23/23 13:45

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.4		4.97	0.393	mg/Kg			01/29/23 13:37	1

Eurofins Carlsbad

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-26-S-0-6"-20230123

Lab Sample ID: 880-24087-8

Date Collected: 01/23/23 14:00

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.4		5.00	0.395	mg/Kg			01/29/23 13:42	1

Client Sample ID: G-27-S-0-6"-20230123

Lab Sample ID: 880-24087-9

Date Collected: 01/23/23 14:10

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257		4.95	0.391	mg/Kg			01/29/23 13:47	1

Client Sample ID: G-28-S-0-6"-20230123

Lab Sample ID: 880-24087-10

Date Collected: 01/23/23 14:25

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222		24.8	1.96	mg/Kg			01/29/23 13:52	5

Client Sample ID: G-31-S-0-6"-20230123

Lab Sample ID: 880-24087-11

Date Collected: 01/23/23 14:40

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.8		4.98	0.393	mg/Kg			01/29/23 13:56	1

Client Sample ID: G-32-S-20230123

Lab Sample ID: 880-24087-12

Date Collected: 01/23/23 14:55

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3850		25.0	1.98	mg/Kg			01/29/23 14:11	5

Client Sample ID: G-34-S-20230123

Lab Sample ID: 880-24087-13

Date Collected: 01/23/23 15:20

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.7		4.97	0.393	mg/Kg			01/29/23 14:16	1

Client Sample ID: G-7-S-20230123

Lab Sample ID: 880-24087-14

Date Collected: 01/23/23 15:40

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357		5.04	0.398	mg/Kg			01/29/23 14:30	1

Eurofins Carlsbad

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-33-S-20230123

Lab Sample ID: 880-24087-15

Date Collected: 01/23/23 15:30

Matrix: Solid

Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.6		4.99	0.394	mg/Kg			01/29/23 14:35	1

Client Sample ID: G-35-S-0-6"-20230127

Lab Sample ID: 880-24257-1

Date Collected: 01/27/23 13:00

Matrix: Solid

Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	436		5.01	0.396	mg/Kg			02/03/23 00:19	1

Client Sample ID: G-36-S-0-6"-20230127

Lab Sample ID: 880-24257-2

Date Collected: 01/27/23 13:10

Matrix: Solid

Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.3		5.00	0.395	mg/Kg			02/03/23 00:25	1

Client Sample ID: G-37-S-0-6"-20230127

Lab Sample ID: 880-24257-3

Date Collected: 01/27/23 13:20

Matrix: Solid

Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.40	J	5.00	0.395	mg/Kg			02/03/23 00:31	1

Client Sample ID: G-38-S-0-6"-20230127

Lab Sample ID: 880-24257-4

Date Collected: 01/27/23 13:30

Matrix: Solid

Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	432		5.02	0.397	mg/Kg			02/03/23 00:50	1

Client Sample ID: G-39-S-0-6"-20230127

Lab Sample ID: 880-24257-5

Date Collected: 01/27/23 13:40

Matrix: Solid

Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	672		5.00	0.395	mg/Kg			02/03/23 00:56	1

Client Sample ID: G-41-S-0-6"-20230127

Lab Sample ID: 880-24257-6

Date Collected: 01/27/23 13:50

Matrix: Solid

Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.6		4.98	0.393	mg/Kg			02/03/23 01:14	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-42-S-0-6"-20230127

Lab Sample ID: 880-24257-7

Date Collected: 01/27/23 14:00

Matrix: Solid

Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.97	J	4.95	0.391	mg/Kg			02/03/23 01:20	1

Client Sample ID: TW-1-S-0-0.5-230213

Lab Sample ID: 880-24739-1

Date Collected: 02/13/23 08:30

Matrix: Solid

Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	975		25.0	1.98	mg/Kg			02/15/23 14:12	5

Client Sample ID: TW-1-S-4-5-230213

Lab Sample ID: 880-24739-2

Date Collected: 02/13/23 10:30

Matrix: Solid

Date Received: 02/14/23 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		02/22/23 09:33	02/23/23 09:51	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		02/22/23 09:33	02/23/23 09:51	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		02/22/23 09:33	02/23/23 09:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		02/22/23 09:33	02/23/23 09:51	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		02/22/23 09:33	02/23/23 09:51	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		02/22/23 09:33	02/23/23 09:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	02/22/23 09:33	02/23/23 09:51	1
1,4-Difluorobenzene (Surr)	117		70 - 130	02/22/23 09:33	02/23/23 09:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg			02/23/23 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	31.1	J	49.9	15.0	mg/Kg			02/22/23 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.1	J B	49.9	15.0	mg/Kg		02/21/23 12:10	02/21/23 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	15.0	mg/Kg		02/21/23 12:10	02/21/23 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		02/21/23 12:10	02/21/23 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	02/21/23 12:10	02/21/23 17:44	1
o-Terphenyl	97		70 - 130	02/21/23 12:10	02/21/23 17:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275		4.98	0.393	mg/Kg			02/15/23 14:26	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: TW-1-S-10-230213

Lab Sample ID: 880-24739-3

Date Collected: 02/13/23 10:40

Matrix: Solid

Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		4.95	0.391	mg/Kg			02/15/23 14:31	1

Client Sample ID: TW-1-S-15-230213

Lab Sample ID: 880-24739-4

Date Collected: 02/13/23 10:50

Matrix: Solid

Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	485		4.96	0.392	mg/Kg			02/15/23 14:36	1

Client Sample ID: TW-1-S-20-230213

Lab Sample ID: 880-24739-5

Date Collected: 02/13/23 11:00

Matrix: Solid

Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1850		24.9	1.96	mg/Kg			02/15/23 14:40	5

Client Sample ID: TW-1-S-25-230213

Lab Sample ID: 880-24739-6

Date Collected: 02/13/23 11:10

Matrix: Solid

Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4230		50.0	3.95	mg/Kg			02/15/23 14:54	10

Client Sample ID: TW-1-S-30-230213

Lab Sample ID: 880-24739-7

Date Collected: 02/13/23 11:20

Matrix: Solid

Date Received: 02/14/23 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		02/22/23 09:33	02/23/23 10:12	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		02/22/23 09:33	02/23/23 10:12	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		02/22/23 09:33	02/23/23 10:12	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		02/22/23 09:33	02/23/23 10:12	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		02/22/23 09:33	02/23/23 10:12	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		02/22/23 09:33	02/23/23 10:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	02/22/23 09:33	02/23/23 10:12	1
1,4-Difluorobenzene (Surr)	114		70 - 130	02/22/23 09:33	02/23/23 10:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg			02/23/23 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	14.9	mg/Kg			02/22/23 16:01	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: TW-1-S-30-230213

Lab Sample ID: 880-24739-7

Date Collected: 02/13/23 11:20

Matrix: Solid

Date Received: 02/14/23 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		02/21/23 12:10	02/21/23 18:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	14.9	mg/Kg		02/21/23 12:10	02/21/23 18:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		02/21/23 12:10	02/21/23 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				02/21/23 12:10	02/21/23 18:06	1
o-Terphenyl	87		70 - 130				02/21/23 12:10	02/21/23 18:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4710		49.8	3.93	mg/Kg			02/15/23 14:59	10

Client Sample ID: TW-1-S-35-230213

Lab Sample ID: 880-24739-8

Date Collected: 02/13/23 11:30

Matrix: Solid

Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3910		25.0	1.97	mg/Kg			02/15/23 15:04	5

Client Sample ID: TW-1-S-40-230213

Lab Sample ID: 880-24739-9

Date Collected: 02/13/23 11:40

Matrix: Solid

Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		5.01	0.396	mg/Kg			02/15/23 15:08	1

Client Sample ID: TW-1-S-45230213

Lab Sample ID: 880-24739-10

Date Collected: 02/13/23 11:50

Matrix: Solid

Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		4.98	0.393	mg/Kg			02/15/23 15:13	1

Client Sample ID: TW-1-W-230216

Lab Sample ID: 880-24871-1

Date Collected: 02/16/23 09:35

Matrix: Water

Date Received: 02/17/23 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			02/20/23 20:01	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 20:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 20:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 20:01	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 20:01	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 20:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130					02/20/23 20:01	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: TW-1-W-230216

Lab Sample ID: 880-24871-1

Date Collected: 02/16/23 09:35

Matrix: Water

Date Received: 02/17/23 08:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130		02/20/23 20:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			02/20/23 20:22	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10400		50.0	34.6	mg/L			02/17/23 15:14	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	15100		500	500	mg/L			02/17/23 12:22	1

Client Sample ID: TW-2-W-230216

Lab Sample ID: 880-24871-2

Date Collected: 02/16/23 10:00

Matrix: Water

Date Received: 02/17/23 08:45

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.6		2.50	1.73	mg/L			02/17/23 15:20	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	328		50.0	50.0	mg/L			02/17/23 12:22	1

Client Sample ID: G-44-S-0-6' 20230131

Lab Sample ID: 890-4002-22

Date Collected: 01/31/23 15:00

Matrix: Solid

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	<5.03	U	5.03		mg/Kg			02/03/23 20:45	1

Client Sample ID: G-45-S-0-6' 20230131

Lab Sample ID: 890-4002-23

Date Collected: 01/31/23 15:10

Matrix: Solid

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	5.16		5.02		mg/Kg			02/03/23 20:52	1

Client Sample ID: G-55-S-1'-20230202

Lab Sample ID: 890-4009-1

Date Collected: 02/02/23 14:30

Matrix: Solid

Date Received: 02/02/23 16:04

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		5.00		mg/Kg			02/06/23 12:17	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-61-S-06'-20230802

Lab Sample ID: 890-4069-1

Date Collected: 02/08/23 14:20

Matrix: Solid

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 15:23	02/11/23 16:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 16:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 16:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 15:23	02/11/23 16:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 16:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 15:23	02/11/23 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130	02/10/23 15:23	02/11/23 16:50	1
1,4-Difluorobenzene (Surr)	82		70 - 130	02/10/23 15:23	02/11/23 16:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			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 F1	49.9		mg/Kg		02/12/23 09:13	02/12/23 22:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1 F1 F2	49.9		mg/Kg		02/12/23 09:13	02/12/23 22:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/12/23 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	57	S1-	70 - 130	02/12/23 09:13	02/12/23 22:27	1
o-Terphenyl	57	S1-	70 - 130	02/12/23 09:13	02/12/23 22:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			02/13/23 09:11	1

Client Sample ID: G-62-S-0-6'-20230802

Lab Sample ID: 890-4069-2

Date Collected: 02/08/23 14:30

Matrix: Solid

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	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/10/23 15:23	02/11/23 17:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/10/23 15:23	02/11/23 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	02/10/23 15:23	02/11/23 17:10	1
1,4-Difluorobenzene (Surr)	84		70 - 130	02/10/23 15:23	02/11/23 17:10	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-62-S-0-6'-20230802

Lab Sample ID: 890-4069-2

Date Collected: 02/08/23 14:30

Matrix: Solid

Date Received: 02/08/23 16:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/23 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	02/12/23 23:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/12/23 09:13	02/12/23 23:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/12/23 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				02/12/23 09:13	02/12/23 23:32	1
o-Terphenyl	69	S1-	70 - 130				02/12/23 09:13	02/12/23 23:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			02/13/23 09:30	1

Client Sample ID: G-58-S-0-6'-20230802

Lab Sample ID: 890-4069-3

Date Collected: 02/08/23 13:50

Matrix: Solid

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	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 15:23	02/11/23 17:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 15:23	02/11/23 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				02/10/23 15:23	02/11/23 17:31	1
1,4-Difluorobenzene (Surr)	84		70 - 130				02/10/23 15:23	02/11/23 17:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/13/23 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	<49.8	U	49.8		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	<49.8	U	49.8		mg/Kg		02/12/23 09:13	02/12/23 23:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		02/12/23 09:13	02/12/23 23:53	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-58-S-0-6'-20230802

Lab Sample ID: 890-4069-3

Date Collected: 02/08/23 13:50

Matrix: Solid

Date Received: 02/08/23 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/12/23 09:13	02/12/23 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130				02/12/23 09:13	02/12/23 23:53	1
o-Terphenyl	58	S1-	70 - 130				02/12/23 09:13	02/12/23 23:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.9		5.00		mg/Kg			02/13/23 09:36	1

Client Sample ID: G-59-S-0-06'-20230802

Lab Sample ID: 890-4069-4

Date Collected: 02/08/23 14:00

Matrix: Solid

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	<0.00202	U	0.00202		mg/Kg		02/10/23 15:23	02/11/23 17:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/10/23 15:23	02/11/23 17:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/10/23 15:23	02/11/23 17:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/10/23 15:23	02/11/23 17:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/10/23 15:23	02/11/23 17:51	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/10/23 15:23	02/11/23 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				02/10/23 15:23	02/11/23 17:51	1
1,4-Difluorobenzene (Surr)	84		70 - 130				02/10/23 15:23	02/11/23 17:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		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 00:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/12/23 09:13	02/13/23 00:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/12/23 09:13	02/13/23 00:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				02/12/23 09:13	02/13/23 00:14	1
o-Terphenyl	73		70 - 130				02/12/23 09:13	02/13/23 00:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.8		4.95		mg/Kg			02/13/23 09:42	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-60-S-0-6'-20230802

Lab Sample ID: 890-4069-5

Date Collected: 02/08/23 14:10

Matrix: Solid

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	<0.00198	U	0.00198		mg/Kg		02/10/23 15:23	02/11/23 18:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/10/23 15:23	02/11/23 18:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/10/23 15:23	02/11/23 18:11	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/10/23 15:23	02/11/23 18:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/10/23 15:23	02/11/23 18:11	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/10/23 15:23	02/11/23 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	02/10/23 15:23	02/11/23 18:11	1
1,4-Difluorobenzene (Surr)	84		70 - 130	02/10/23 15:23	02/11/23 18:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			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	<49.8	U	49.8		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	<49.8	U	49.8		mg/Kg		02/12/23 09:13	02/13/23 00:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		02/12/23 09:13	02/13/23 00:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/12/23 09:13	02/13/23 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	02/12/23 09:13	02/13/23 00:36	1
o-Terphenyl	73		70 - 130	02/12/23 09:13	02/13/23 00:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			02/13/23 09:48	1

Client Sample ID: G-63-S-0-6'-20230802

Lab Sample ID: 890-4069-6

Date Collected: 02/08/23 14:40

Matrix: Solid

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 15:23	02/11/23 18:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 18:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 18:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 15:23	02/11/23 18:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 18:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 15:23	02/11/23 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	02/10/23 15:23	02/11/23 18:32	1
1,4-Difluorobenzene (Surr)	81		70 - 130	02/10/23 15:23	02/11/23 18:32	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-63-S-0-6'-20230802

Lab Sample ID: 890-4069-6

Date Collected: 02/08/23 14:40

Matrix: Solid

Date Received: 02/08/23 16:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 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 00:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/12/23 09:13	02/13/23 00:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/12/23 09:13	02/13/23 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	57	S1-	70 - 130				02/12/23 09:13	02/13/23 00:57	1
o-Terphenyl	60	S1-	70 - 130				02/12/23 09:13	02/13/23 00:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			02/13/23 10:07	1

Client Sample ID: S-1-S-1'-20230223

Lab Sample ID: 890-4177-1

Date Collected: 02/22/23 14:00

Matrix: Solid

Date Received: 02/22/23 15:59

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.1		5.05		mg/Kg			02/28/23 12:54	1

Client Sample ID: S-1-S-2'-20230223

Lab Sample ID: 890-4177-2

Date Collected: 02/22/23 14:10

Matrix: Solid

Date Received: 02/22/23 15:59

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357		4.97		mg/Kg			02/28/23 12:59	1

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Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

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)
880-24739-2	TW-1-S-4-5-230213	133 S1+	117
880-24739-7	TW-1-S-30-230213	116	114
890-4069-1	G-61-S-06'-20230802	65 S1-	82
890-4069-2	G-62-S-0-6'-20230802	94	84
890-4069-3	G-58-S-0-6'-20230802	96	84
890-4069-4	G-59-S-0-06'-20230802	99	84
890-4069-5	G-60-S-0-6'-20230802	93	84
890-4069-6	G-63-S-0-6'-20230802	88	81
LCS 880-46022/1-A	Lab Control Sample	123	106
LCS 880-46933/1-A	Lab Control Sample	110	113
LCSD 880-46022/2-A	Lab Control Sample Dup	110	100
LCSD 880-46933/2-A	Lab Control Sample Dup	109	113
MB 880-46022/5-A	Method Blank	79	92
MB 880-46926/8	Method Blank	105	105
MB 880-46933/5-A	Method Blank	105	104
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-24332-A-5 MB	Method Blank	141 S1+	99
880-24871-1	TW-1-W-230216	150 S1+	98
LCS 880-46681/3	Lab Control Sample	131 S1+	100
LCSD 880-46681/4	Lab Control Sample Dup	127	102
MB 880-46681/8	Method Blank	136 S1+	98
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24739-2	TW-1-S-4-5-230213	100	97
880-24739-7	TW-1-S-30-230213	89	87
890-4069-1	G-61-S-06'-20230802	57 S1-	57 S1-
890-4069-1 MS	G-61-S-06'-20230802	70	65 S1-
890-4069-1 MSD	G-61-S-06'-20230802	68 S1-	68 S1-
890-4069-2	G-62-S-0-6'-20230802	72	69 S1-
890-4069-3	G-58-S-0-6'-20230802	61 S1-	58 S1-
890-4069-4	G-59-S-0-06'-20230802	73	73
890-4069-5	G-60-S-0-6'-20230802	74	73

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Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-4069-6	G-63-S-0-6'-20230802	57 S1-	60 S1-
LCS 880-46071/2-A	Lab Control Sample	89	92
LCS 880-46823/2-A	Lab Control Sample	127	129
LCSD 880-46071/3-A	Lab Control Sample Dup	81	78
LCSD 880-46823/3-A	Lab Control Sample Dup	114	108
MB 880-46071/1-A	Method Blank	77	77
MB 880-46823/1-A	Method Blank	104	108

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 8021B - Volatile Organic Compounds (GC)

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	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
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: 880-24332-A-5 MB

Matrix: Water

Analysis Batch: 46681

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			02/20/23 18:39	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 18:39	1

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

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

Lab Sample ID: 880-24332-A-5 MB

Matrix: Water

Analysis Batch: 46681

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 18:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 18:39	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 18:39	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 18:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130		02/20/23 18:39	1
1,4-Difluorobenzene (Surr)	99		70 - 130		02/20/23 18:39	1

Lab Sample ID: MB 880-46681/8

Matrix: Water

Analysis Batch: 46681

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			02/20/23 13:17	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 13:17	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 13:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 13:17	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 13:17	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 13:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130		02/20/23 13:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130		02/20/23 13:17	1

Lab Sample ID: LCS 880-46681/3

Matrix: Water

Analysis Batch: 46681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1179		mg/L		118	70 - 130
Toluene	0.100	0.1154		mg/L		115	70 - 130
Ethylbenzene	0.100	0.1145		mg/L		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2387		mg/L		119	70 - 130
o-Xylene	0.100	0.1159		mg/L		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-46681/4

Matrix: Water

Analysis Batch: 46681

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1172		mg/L		117	70 - 130	1	20
Toluene	0.100	0.1118		mg/L		112	70 - 130	3	20
Ethylbenzene	0.100	0.1106		mg/L		111	70 - 130	3	20

Eurofins Carlsbad

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

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

Lab Sample ID: LCSD 880-46681/4

Matrix: Water

Analysis Batch: 46681

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.2295		mg/L		115	70 - 130	4	20
o-Xylene	0.100	0.1128		mg/L		113	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-46926/8

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: Method Blank

Prep Type: Total/NA

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 13:39	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg			02/22/23 13:39	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg			02/22/23 13:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg			02/22/23 13:39	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg			02/22/23 13:39	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg			02/22/23 13:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130		02/22/23 13:39	1
1,4-Difluorobenzene (Surr)	105		70 - 130		02/22/23 13:39	1

Lab Sample ID: MB 880-46933/5-A

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46933

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 09:33	02/23/23 01:41	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/22/23 09:33	02/23/23 01:41	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/22/23 09:33	02/23/23 01:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/22/23 09:33	02/23/23 01:41	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/22/23 09:33	02/23/23 01:41	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/22/23 09:33	02/23/23 01:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	02/22/23 09:33	02/23/23 01:41	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/22/23 09:33	02/23/23 01:41	1

Lab Sample ID: LCS 880-46933/1-A

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1029		mg/Kg		103	70 - 130
Toluene	0.100	0.09799		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2284		mg/Kg		114	70 - 130

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

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

Lab Sample ID: LCS 880-46933/1-A

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1113		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-46933/2-A

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46933

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1044		mg/Kg		104	70 - 130	1	35
Toluene	0.100	0.1007		mg/Kg		101	70 - 130	3	35
Ethylbenzene	0.100	0.1051		mg/Kg		105	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2261		mg/Kg		113	70 - 130	1	35
o-Xylene	0.100	0.1105		mg/Kg		110	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

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

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
Oil 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

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

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

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

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

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

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

Lab Sample ID: 890-4069-1 MS

Matrix: Solid

Analysis Batch: 46062

Client Sample ID: G-61-S-06'-20230802

Prep Type: Total/NA

Prep Batch: 46071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	998	<49.9	U F1	mg/Kg		0.8	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *1 F1 F2	998	<49.9	U F1	mg/Kg		0.8	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	65	S1-	70 - 130

Lab Sample ID: 890-4069-1 MSD

Matrix: Solid

Analysis Batch: 46062

Client Sample ID: G-61-S-06'-20230802

Prep Type: Total/NA

Prep Batch: 46071

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	<49.9	U F1	mg/Kg		0.8	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1 F1 F2	997	<49.9	U F1 F2	mg/Kg		0.05	70 - 130	32	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	68	S1-	70 - 130
o-Terphenyl	68	S1-	70 - 130

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

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

Lab Sample ID: MB 880-46823/1-A

Matrix: Solid

Analysis Batch: 46829

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.20	J	50.0	15.0	mg/Kg		02/21/23 08:38	02/21/23 08:17	1
Diesel Range Organics (Over C10-C28)	32.59	J	50.0	15.0	mg/Kg		02/21/23 08:38	02/21/23 08:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/21/23 08:38	02/21/23 08:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				02/21/23 08:38	02/21/23 08:17	1
o-Terphenyl	108		70 - 130				02/21/23 08:38	02/21/23 08:17	1

Lab Sample ID: LCS 880-46823/2-A

Matrix: Solid

Analysis Batch: 46829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1049		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1212		mg/Kg		121	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	127		70 - 130				
o-Terphenyl	129		70 - 130				

Lab Sample ID: LCSD 880-46823/3-A

Matrix: Solid

Analysis Batch: 46829

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46823

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	857.5		mg/Kg		86	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	955.2	*1	mg/Kg		96	70 - 130	24	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	108		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46609/3

Matrix: Water

Analysis Batch: 46609

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500	0.346	mg/L			02/16/23 23:59	1

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-46609/4

Matrix: Water

Analysis Batch: 46609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	25.30		mg/L		101	90 - 110

Lab Sample ID: LCSD 880-46609/5

Matrix: Water

Analysis Batch: 46609

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	25.37		mg/L		101	90 - 110	0	20

Lab Sample ID: MB 880-44947/1-A

Matrix: Solid

Analysis Batch: 44964

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			01/29/23 12:35	1

Lab Sample ID: LCS 880-44947/2-A

Matrix: Solid

Analysis Batch: 44964

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-44947/3-A

Matrix: Solid

Analysis Batch: 44964

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	255.9		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 880-24087-1 MS

Matrix: Solid

Analysis Batch: 44964

Client Sample ID: G-3-S-0-6"-20230123

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	63.1		253	300.2		mg/Kg		94	90 - 110

Lab Sample ID: 880-24087-1 MSD

Matrix: Solid

Analysis Batch: 44964

Client Sample ID: G-3-S-0-6"-20230123

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	63.1		253	333.9		mg/Kg		107	90 - 110	11	20

Lab Sample ID: 880-24087-11 MS

Matrix: Solid

Analysis Batch: 44964

Client Sample ID: G-31-S-0-6"-20230123

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	28.8		249	282.3		mg/Kg		102	90 - 110

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-24087-11 MSD

Matrix: Solid

Analysis Batch: 44964

Client Sample ID: G-31-S-0-6"-20230123

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	28.8		249	280.1		mg/Kg		101	90 - 110	1	20

Lab Sample ID: MB 880-45237/1-A

Matrix: Solid

Analysis Batch: 45293

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			02/02/23 22:46	1

Lab Sample ID: LCS 880-45237/2-A

Matrix: Solid

Analysis Batch: 45293

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.3		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-45237/3-A

Matrix: Solid

Analysis Batch: 45293

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	265.0		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 880-24257-3 MS

Matrix: Solid

Analysis Batch: 45293

Client Sample ID: G-37-S-0-6"-20230127

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.40	J	250	266.6		mg/Kg		106	90 - 110

Lab Sample ID: 880-24257-3 MSD

Matrix: Solid

Analysis Batch: 45293

Client Sample ID: G-37-S-0-6"-20230127

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2.40	J	250	267.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-45276/1-A

Matrix: Solid

Analysis Batch: 45421

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 19:19	1

Lab Sample ID: LCS 880-45276/2-A

Matrix: Solid

Analysis Batch: 45421

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	273.0		mg/Kg		109	90 - 110

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-45276/3-A

Matrix: Solid

Analysis Batch: 45421

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	261.5		mg/Kg		105	90 - 110	4	20

Lab Sample ID: MB 880-45411/1-A

Matrix: Solid

Analysis Batch: 45591

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			02/06/23 12:03	1

Lab Sample ID: LCS 880-45411/2-A

Matrix: Solid

Analysis Batch: 45591

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	253.3		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-45411/3-A

Matrix: Solid

Analysis Batch: 45591

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	254.7		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-4009-1 MS

Matrix: Solid

Analysis Batch: 45591

Client Sample ID: G-55-S-1'-20230202

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	100		250	346.7		mg/Kg		99	90 - 110		

Lab Sample ID: 890-4009-1 MSD

Matrix: Solid

Analysis Batch: 45591

Client Sample ID: G-55-S-1'-20230202

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100		250	348.1		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-45996/1-A

Matrix: Solid

Analysis Batch: 46048

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			02/13/23 08:53	1

Lab Sample ID: LCS 880-45996/2-A

Matrix: Solid

Analysis Batch: 46048

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	236.8		mg/Kg		95	90 - 110		

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-45996/3-A

Matrix: Solid

Analysis Batch: 46048

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	236.7		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-4069-1 MS

Matrix: Solid

Analysis Batch: 46048

Client Sample ID: G-61-S-06'-20230802

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.02	U	251	276.2		mg/Kg		109	90 - 110		

Lab Sample ID: 890-4069-1 MSD

Matrix: Solid

Analysis Batch: 46048

Client Sample ID: G-61-S-06'-20230802

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.02	U	251	276.2		mg/Kg		109	90 - 110	0	20

Lab Sample ID: MB 880-46372/1-A

Matrix: Solid

Analysis Batch: 46412

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			02/15/23 13:58	1

Lab Sample ID: LCS 880-46372/2-A

Matrix: Solid

Analysis Batch: 46412

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-46372/3-A

Matrix: Solid

Analysis Batch: 46412

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	240.5		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-24739-1 MS

Matrix: Solid

Analysis Batch: 46412

Client Sample ID: TW-1-S-0-0.5-230213

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	975		1250	2209		mg/Kg		99	90 - 110		

Lab Sample ID: 880-24739-1 MSD

Matrix: Solid

Analysis Batch: 46412

Client Sample ID: TW-1-S-0-0.5-230213

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	975		1250	2176		mg/Kg		96	90 - 110	2	20

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47345/1-A

Matrix: Solid

Analysis Batch: 47420

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			02/28/23 08:00	1

Lab Sample ID: LCS 880-47345/2-A

Matrix: Solid

Analysis Batch: 47420

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.1		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-47345/3-A

Matrix: Solid

Analysis Batch: 47420

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	236.1		mg/Kg		94	90 - 110	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-46599/1

Matrix: Water

Analysis Batch: 46599

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			02/17/23 12:22	1

Lab Sample ID: LCS 880-46599/2

Matrix: Water

Analysis Batch: 46599

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	956.0		mg/L		96	80 - 120

Lab Sample ID: LCSD 880-46599/3

Matrix: Water

Analysis Batch: 46599

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1048		mg/L		105	80 - 120	9	10

Lab Sample ID: 880-24871-1 DU

Matrix: Water

Analysis Batch: 46599

Client Sample ID: TW-1-W-230216

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	15100		14130		mg/L		7	10

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

GC VOA

Prep Batch: 46022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Total/NA	Solid	5035	
890-4069-2	G-62-S-0-6'-20230802	Total/NA	Solid	5035	
890-4069-3	G-58-S-0-6'-20230802	Total/NA	Solid	5035	
890-4069-4	G-59-S-0-06'-20230802	Total/NA	Solid	5035	
890-4069-5	G-60-S-0-6'-20230802	Total/NA	Solid	5035	
890-4069-6	G-63-S-0-6'-20230802	Total/NA	Solid	5035	
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	

Analysis Batch: 46060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Total/NA	Solid	8021B	46022
890-4069-2	G-62-S-0-6'-20230802	Total/NA	Solid	8021B	46022
890-4069-3	G-58-S-0-6'-20230802	Total/NA	Solid	8021B	46022
890-4069-4	G-59-S-0-06'-20230802	Total/NA	Solid	8021B	46022
890-4069-5	G-60-S-0-6'-20230802	Total/NA	Solid	8021B	46022
890-4069-6	G-63-S-0-6'-20230802	Total/NA	Solid	8021B	46022
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

Analysis Batch: 46230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Total/NA	Solid	Total BTEX	
890-4069-2	G-62-S-0-6'-20230802	Total/NA	Solid	Total BTEX	
890-4069-3	G-58-S-0-6'-20230802	Total/NA	Solid	Total BTEX	
890-4069-4	G-59-S-0-06'-20230802	Total/NA	Solid	Total BTEX	
890-4069-5	G-60-S-0-6'-20230802	Total/NA	Solid	Total BTEX	
890-4069-6	G-63-S-0-6'-20230802	Total/NA	Solid	Total BTEX	

Analysis Batch: 46681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24871-1	TW-1-W-230216	Total/NA	Water	8021B	
880-24332-A-5 MB	Method Blank	Total/NA	Water	8021B	
MB 880-46681/8	Method Blank	Total/NA	Water	8021B	
LCS 880-46681/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-46681/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 46818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24871-1	TW-1-W-230216	Total/NA	Water	Total BTEX	

Analysis Batch: 46926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-2	TW-1-S-4-5-230213	Total/NA	Solid	8021B	46933
880-24739-7	TW-1-S-30-230213	Total/NA	Solid	8021B	46933
MB 880-46926/8	Method Blank	Total/NA	Solid	8021B	
MB 880-46933/5-A	Method Blank	Total/NA	Solid	8021B	46933
LCS 880-46933/1-A	Lab Control Sample	Total/NA	Solid	8021B	46933
LCSD 880-46933/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46933

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

GC VOA

Prep Batch: 46933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-2	TW-1-S-4-5-230213	Total/NA	Solid	5030B	
880-24739-7	TW-1-S-30-230213	Total/NA	Solid	5030B	
MB 880-46933/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-46933/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-46933/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 47056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-2	TW-1-S-4-5-230213	Total/NA	Solid	Total BTEX	
880-24739-7	TW-1-S-30-230213	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 46062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Total/NA	Solid	8015B NM	46071
890-4069-2	G-62-S-0-6'-20230802	Total/NA	Solid	8015B NM	46071
890-4069-3	G-58-S-0-6'-20230802	Total/NA	Solid	8015B NM	46071
890-4069-4	G-59-S-0-06'-20230802	Total/NA	Solid	8015B NM	46071
890-4069-5	G-60-S-0-6'-20230802	Total/NA	Solid	8015B NM	46071
890-4069-6	G-63-S-0-6'-20230802	Total/NA	Solid	8015B NM	46071
MB 880-46071/1-A	Method Blank	Total/NA	Solid	8015B NM	46071
LCS 880-46071/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46071
LCSD 880-46071/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46071
890-4069-1 MS	G-61-S-06'-20230802	Total/NA	Solid	8015B NM	46071
890-4069-1 MSD	G-61-S-06'-20230802	Total/NA	Solid	8015B NM	46071

Prep Batch: 46071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Total/NA	Solid	8015NM Prep	
890-4069-2	G-62-S-0-6'-20230802	Total/NA	Solid	8015NM Prep	
890-4069-3	G-58-S-0-6'-20230802	Total/NA	Solid	8015NM Prep	
890-4069-4	G-59-S-0-06'-20230802	Total/NA	Solid	8015NM Prep	
890-4069-5	G-60-S-0-6'-20230802	Total/NA	Solid	8015NM Prep	
890-4069-6	G-63-S-0-6'-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	
890-4069-1 MS	G-61-S-06'-20230802	Total/NA	Solid	8015NM Prep	
890-4069-1 MSD	G-61-S-06'-20230802	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Total/NA	Solid	8015 NM	
890-4069-2	G-62-S-0-6'-20230802	Total/NA	Solid	8015 NM	
890-4069-3	G-58-S-0-6'-20230802	Total/NA	Solid	8015 NM	
890-4069-4	G-59-S-0-06'-20230802	Total/NA	Solid	8015 NM	
890-4069-5	G-60-S-0-6'-20230802	Total/NA	Solid	8015 NM	
890-4069-6	G-63-S-0-6'-20230802	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

GC Semi VOA

Prep Batch: 46823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-2	TW-1-S-4-5-230213	Total/NA	Solid	8015NM Prep	
880-24739-7	TW-1-S-30-230213	Total/NA	Solid	8015NM Prep	
MB 880-46823/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46823/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46823/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-2	TW-1-S-4-5-230213	Total/NA	Solid	8015B NM	46823
880-24739-7	TW-1-S-30-230213	Total/NA	Solid	8015B NM	46823
MB 880-46823/1-A	Method Blank	Total/NA	Solid	8015B NM	46823
LCS 880-46823/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46823
LCSD 880-46823/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46823

Analysis Batch: 46962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-2	TW-1-S-4-5-230213	Total/NA	Solid	8015 NM	
880-24739-7	TW-1-S-30-230213	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24087-1	G-3-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-2	G-1-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-3	G-2-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-4	G-11-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-5	G-12-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-6	G-14-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-7	G-25-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-8	G-26-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-9	G-27-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-10	G-28-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-11	G-31-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-12	G-32-S-20230123	Soluble	Solid	DI Leach	
880-24087-13	G-34-S-20230123	Soluble	Solid	DI Leach	
880-24087-14	G-7-S-20230123	Soluble	Solid	DI Leach	
880-24087-15	G-33-S-20230123	Soluble	Solid	DI Leach	
MB 880-44947/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44947/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44947/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24087-1 MS	G-3-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-1 MSD	G-3-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-11 MS	G-31-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-11 MSD	G-31-S-0-6"-20230123	Soluble	Solid	DI Leach	

Analysis Batch: 44964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24087-1	G-3-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-2	G-1-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-3	G-2-S-0-6"-20230123	Soluble	Solid	300.0	44947

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

HPLC/IC (Continued)

Analysis Batch: 44964 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24087-4	G-11-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-5	G-12-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-6	G-14-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-7	G-25-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-8	G-26-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-9	G-27-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-10	G-28-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-11	G-31-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-12	G-32-S-20230123	Soluble	Solid	300.0	44947
880-24087-13	G-34-S-20230123	Soluble	Solid	300.0	44947
880-24087-14	G-7-S-20230123	Soluble	Solid	300.0	44947
880-24087-15	G-33-S-20230123	Soluble	Solid	300.0	44947
MB 880-44947/1-A	Method Blank	Soluble	Solid	300.0	44947
LCS 880-44947/2-A	Lab Control Sample	Soluble	Solid	300.0	44947
LCSD 880-44947/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44947
880-24087-1 MS	G-3-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-1 MSD	G-3-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-11 MS	G-31-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-11 MSD	G-31-S-0-6"-20230123	Soluble	Solid	300.0	44947

Leach Batch: 45237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24257-1	G-35-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-2	G-36-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-3	G-37-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-4	G-38-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-5	G-39-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-6	G-41-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-7	G-42-S-0-6"-20230127	Soluble	Solid	DI Leach	
MB 880-45237/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45237/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45237/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24257-3 MS	G-37-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-3 MSD	G-37-S-0-6"-20230127	Soluble	Solid	DI Leach	

Leach Batch: 45276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4002-22	G-44-S-0-6' 20230131	Soluble	Solid	DI Leach	
890-4002-23	G-45-S-0-6' 20230131	Soluble	Solid	DI Leach	
MB 880-45276/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45276/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45276/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 45293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24257-1	G-35-S-0-6"-20230127	Soluble	Solid	300.0	45237
880-24257-2	G-36-S-0-6"-20230127	Soluble	Solid	300.0	45237
880-24257-3	G-37-S-0-6"-20230127	Soluble	Solid	300.0	45237
880-24257-4	G-38-S-0-6"-20230127	Soluble	Solid	300.0	45237
880-24257-5	G-39-S-0-6"-20230127	Soluble	Solid	300.0	45237
880-24257-6	G-41-S-0-6"-20230127	Soluble	Solid	300.0	45237

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

HPLC/IC (Continued)

Analysis Batch: 45293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24257-7	G-42-S-0-6"-20230127	Soluble	Solid	300.0	45237
MB 880-45237/1-A	Method Blank	Soluble	Solid	300.0	45237
LCS 880-45237/2-A	Lab Control Sample	Soluble	Solid	300.0	45237
LCSD 880-45237/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45237
880-24257-3 MS	G-37-S-0-6"-20230127	Soluble	Solid	300.0	45237
880-24257-3 MSD	G-37-S-0-6"-20230127	Soluble	Solid	300.0	45237

Leach Batch: 45411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4009-1	G-55-S-1'-20230202	Soluble	Solid	DI Leach	
MB 880-45411/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45411/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45411/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4009-1 MS	G-55-S-1'-20230202	Soluble	Solid	DI Leach	
890-4009-1 MSD	G-55-S-1'-20230202	Soluble	Solid	DI Leach	

Analysis Batch: 45421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4002-22	G-44-S-0-6' 20230131	Soluble	Solid	300.0	45276
890-4002-23	G-45-S-0-6' 20230131	Soluble	Solid	300.0	45276
MB 880-45276/1-A	Method Blank	Soluble	Solid	300.0	45276
LCS 880-45276/2-A	Lab Control Sample	Soluble	Solid	300.0	45276
LCSD 880-45276/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45276

Analysis Batch: 45591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4009-1	G-55-S-1'-20230202	Soluble	Solid	300.0	45411
MB 880-45411/1-A	Method Blank	Soluble	Solid	300.0	45411
LCS 880-45411/2-A	Lab Control Sample	Soluble	Solid	300.0	45411
LCSD 880-45411/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45411
890-4009-1 MS	G-55-S-1'-20230202	Soluble	Solid	300.0	45411
890-4009-1 MSD	G-55-S-1'-20230202	Soluble	Solid	300.0	45411

Leach Batch: 45996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Soluble	Solid	DI Leach	
890-4069-2	G-62-S-0-6'-20230802	Soluble	Solid	DI Leach	
890-4069-3	G-58-S-0-6'-20230802	Soluble	Solid	DI Leach	
890-4069-4	G-59-S-0-06'-20230802	Soluble	Solid	DI Leach	
890-4069-5	G-60-S-0-6'-20230802	Soluble	Solid	DI Leach	
890-4069-6	G-63-S-0-6'-20230802	Soluble	Solid	DI Leach	
MB 880-45996/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45996/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45996/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4069-1 MS	G-61-S-06'-20230802	Soluble	Solid	DI Leach	
890-4069-1 MSD	G-61-S-06'-20230802	Soluble	Solid	DI Leach	

Analysis Batch: 46048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Soluble	Solid	300.0	45996
890-4069-2	G-62-S-0-6'-20230802	Soluble	Solid	300.0	45996

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

HPLC/IC (Continued)

Analysis Batch: 46048 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-3	G-58-S-0-6'-20230802	Soluble	Solid	300.0	45996
890-4069-4	G-59-S-0-06'-20230802	Soluble	Solid	300.0	45996
890-4069-5	G-60-S-0-6'-20230802	Soluble	Solid	300.0	45996
890-4069-6	G-63-S-0-6'-20230802	Soluble	Solid	300.0	45996
MB 880-45996/1-A	Method Blank	Soluble	Solid	300.0	45996
LCS 880-45996/2-A	Lab Control Sample	Soluble	Solid	300.0	45996
LCSD 880-45996/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45996
890-4069-1 MS	G-61-S-06'-20230802	Soluble	Solid	300.0	45996
890-4069-1 MSD	G-61-S-06'-20230802	Soluble	Solid	300.0	45996

Leach Batch: 46372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-1	TW-1-S-0-0.5-230213	Soluble	Solid	DI Leach	
880-24739-2	TW-1-S-4-5-230213	Soluble	Solid	DI Leach	
880-24739-3	TW-1-S-10-230213	Soluble	Solid	DI Leach	
880-24739-4	TW-1-S-15-230213	Soluble	Solid	DI Leach	
880-24739-5	TW-1-S-20-230213	Soluble	Solid	DI Leach	
880-24739-6	TW-1-S-25-230213	Soluble	Solid	DI Leach	
880-24739-7	TW-1-S-30-230213	Soluble	Solid	DI Leach	
880-24739-8	TW-1-S-35-230213	Soluble	Solid	DI Leach	
880-24739-9	TW-1-S-40-230213	Soluble	Solid	DI Leach	
880-24739-10	TW-1-S-45230213	Soluble	Solid	DI Leach	
MB 880-46372/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46372/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46372/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24739-1 MS	TW-1-S-0-0.5-230213	Soluble	Solid	DI Leach	
880-24739-1 MSD	TW-1-S-0-0.5-230213	Soluble	Solid	DI Leach	

Analysis Batch: 46412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-1	TW-1-S-0-0.5-230213	Soluble	Solid	300.0	46372
880-24739-2	TW-1-S-4-5-230213	Soluble	Solid	300.0	46372
880-24739-3	TW-1-S-10-230213	Soluble	Solid	300.0	46372
880-24739-4	TW-1-S-15-230213	Soluble	Solid	300.0	46372
880-24739-5	TW-1-S-20-230213	Soluble	Solid	300.0	46372
880-24739-6	TW-1-S-25-230213	Soluble	Solid	300.0	46372
880-24739-7	TW-1-S-30-230213	Soluble	Solid	300.0	46372
880-24739-8	TW-1-S-35-230213	Soluble	Solid	300.0	46372
880-24739-9	TW-1-S-40-230213	Soluble	Solid	300.0	46372
880-24739-10	TW-1-S-45230213	Soluble	Solid	300.0	46372
MB 880-46372/1-A	Method Blank	Soluble	Solid	300.0	46372
LCS 880-46372/2-A	Lab Control Sample	Soluble	Solid	300.0	46372
LCSD 880-46372/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46372
880-24739-1 MS	TW-1-S-0-0.5-230213	Soluble	Solid	300.0	46372
880-24739-1 MSD	TW-1-S-0-0.5-230213	Soluble	Solid	300.0	46372

Analysis Batch: 46609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24871-1	TW-1-W-230216	Total/NA	Water	300.0	
880-24871-2	TW-2-W-230216	Total/NA	Water	300.0	
MB 880-46609/3	Method Blank	Total/NA	Water	300.0	

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

HPLC/IC (Continued)

Analysis Batch: 46609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-46609/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-46609/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Leach Batch: 47345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4177-1	S-1-S-1'-20230223	Soluble	Solid	DI Leach	
890-4177-2	S-1-S-2'-20230223	Soluble	Solid	DI Leach	
MB 880-47345/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47345/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47345/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 47420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4177-1	S-1-S-1'-20230223	Soluble	Solid	300.0	47345
890-4177-2	S-1-S-2'-20230223	Soluble	Solid	300.0	47345
MB 880-47345/1-A	Method Blank	Soluble	Solid	300.0	47345
LCS 880-47345/2-A	Lab Control Sample	Soluble	Solid	300.0	47345
LCSD 880-47345/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47345

General Chemistry

Analysis Batch: 45407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24257-1	G-35-S-0-6"-20230127	Total/NA	Solid	D2216	
880-24257-2	G-36-S-0-6"-20230127	Total/NA	Solid	D2216	
880-24257-3	G-37-S-0-6"-20230127	Total/NA	Solid	D2216	
880-24257-4	G-38-S-0-6"-20230127	Total/NA	Solid	D2216	
880-24257-5	G-39-S-0-6"-20230127	Total/NA	Solid	D2216	
880-24257-6	G-41-S-0-6"-20230127	Total/NA	Solid	D2216	
880-24257-7	G-42-S-0-6"-20230127	Total/NA	Solid	D2216	
MB 880-45407/1	Method Blank	Total/NA	Solid	D2216	
880-24257-1 DU	G-35-S-0-6"-20230127	Total/NA	Solid	D2216	

Analysis Batch: 46599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24871-1	TW-1-W-230216	Total/NA	Water	SM 2540C	
880-24871-2	TW-2-W-230216	Total/NA	Water	SM 2540C	
MB 880-46599/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-46599/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-46599/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-24871-1 DU	TW-1-W-230216	Total/NA	Water	SM 2540C	

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-3-S-0-6"-20230123**Lab Sample ID: 880-24087-1****Date Collected: 01/23/23 13:00****Matrix: Solid****Date Received: 01/25/23 11:47**

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	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 12:49	CH	EET MID

Client Sample ID: G-1-S-0-6"-20230123**Lab Sample ID: 880-24087-2****Date Collected: 01/23/23 12:30****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:03	CH	EET MID

Client Sample ID: G-2-S-0-6"-20230123**Lab Sample ID: 880-24087-3****Date Collected: 01/23/23 12:40****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:08	CH	EET MID

Client Sample ID: G-11-S-0-6"-20230123**Lab Sample ID: 880-24087-4****Date Collected: 01/23/23 13:10****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:13	CH	EET MID

Client Sample ID: G-12-S-0-6"-20230123**Lab Sample ID: 880-24087-5****Date Collected: 01/23/23 13:20****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:18	CH	EET MID

Client Sample ID: G-14-S-0-6"-20230123**Lab Sample ID: 880-24087-6****Date Collected: 01/23/23 13:30****Matrix: Solid****Date Received: 01/25/23 11:47**

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	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:33	CH	EET MID

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-25-S-0-6"-20230123**Lab Sample ID: 880-24087-7****Date Collected: 01/23/23 13:45****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:37	CH	EET MID

Client Sample ID: G-26-S-0-6"-20230123**Lab Sample ID: 880-24087-8****Date Collected: 01/23/23 14:00****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:42	CH	EET MID

Client Sample ID: G-27-S-0-6"-20230123**Lab Sample ID: 880-24087-9****Date Collected: 01/23/23 14:10****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:47	CH	EET MID

Client Sample ID: G-28-S-0-6"-20230123**Lab Sample ID: 880-24087-10****Date Collected: 01/23/23 14:25****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		5			44964	01/29/23 13:52	CH	EET MID

Client Sample ID: G-31-S-0-6"-20230123**Lab Sample ID: 880-24087-11****Date Collected: 01/23/23 14:40****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:56	CH	EET MID

Client Sample ID: G-32-S-20230123**Lab Sample ID: 880-24087-12****Date Collected: 01/23/23 14:55****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		5			44964	01/29/23 14:11	CH	EET MID

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-34-S-20230123**Lab Sample ID: 880-24087-13****Date Collected: 01/23/23 15:20****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 14:16	CH	EET MID

Client Sample ID: G-7-S-20230123**Lab Sample ID: 880-24087-14****Date Collected: 01/23/23 15:40****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 14:30	CH	EET MID

Client Sample ID: G-33-S-20230123**Lab Sample ID: 880-24087-15****Date Collected: 01/23/23 15:30****Matrix: Solid****Date Received: 01/25/23 11:47**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 14:35	CH	EET MID

Client Sample ID: G-35-S-0-6"-20230127**Lab Sample ID: 880-24257-1****Date Collected: 01/27/23 13:00****Matrix: Solid****Date Received: 02/02/23 11:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 00:19	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Client Sample ID: G-36-S-0-6"-20230127**Lab Sample ID: 880-24257-2****Date Collected: 01/27/23 13:10****Matrix: Solid****Date Received: 02/02/23 11:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 00:25	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Client Sample ID: G-37-S-0-6"-20230127**Lab Sample ID: 880-24257-3****Date Collected: 01/27/23 13:20****Matrix: Solid****Date Received: 02/02/23 11:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 00:31	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-38-S-0-6"-20230127**Lab Sample ID: 880-24257-4****Date Collected: 01/27/23 13:30****Matrix: Solid****Date Received: 02/02/23 11:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 00:50	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Client Sample ID: G-39-S-0-6"-20230127**Lab Sample ID: 880-24257-5****Date Collected: 01/27/23 13:40****Matrix: Solid****Date Received: 02/02/23 11:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 00:56	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Client Sample ID: G-41-S-0-6"-20230127**Lab Sample ID: 880-24257-6****Date Collected: 01/27/23 13:50****Matrix: Solid****Date Received: 02/02/23 11:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 01:14	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Client Sample ID: G-42-S-0-6"-20230127**Lab Sample ID: 880-24257-7****Date Collected: 01/27/23 14:00****Matrix: Solid****Date Received: 02/02/23 11:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 01:20	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Client Sample ID: TW-1-S-0-0.5-230213**Lab Sample ID: 880-24739-1****Date Collected: 02/13/23 08:30****Matrix: Solid****Date Received: 02/14/23 16:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		5			46412	02/15/23 14:12	CH	EET MID

Client Sample ID: TW-1-S-4-5-230213**Lab Sample ID: 880-24739-2****Date Collected: 02/13/23 10:30****Matrix: Solid****Date Received: 02/14/23 16:00**

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	46933	02/22/23 09:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46926	02/23/23 09:51	AJ	EET MID

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: TW-1-S-4-5-230213**Lab Sample ID: 880-24739-2****Date Collected: 02/13/23 10:30****Matrix: Solid****Date Received: 02/14/23 16:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			47056	02/23/23 12:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46962	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46823	02/21/23 12:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 17:44	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		1			46412	02/15/23 14:26	CH	EET MID

Client Sample ID: TW-1-S-10-230213**Lab Sample ID: 880-24739-3****Date Collected: 02/13/23 10:40****Matrix: Solid****Date Received: 02/14/23 16:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		1			46412	02/15/23 14:31	CH	EET MID

Client Sample ID: TW-1-S-15-230213**Lab Sample ID: 880-24739-4****Date Collected: 02/13/23 10:50****Matrix: Solid****Date Received: 02/14/23 16:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		1			46412	02/15/23 14:36	CH	EET MID

Client Sample ID: TW-1-S-20-230213**Lab Sample ID: 880-24739-5****Date Collected: 02/13/23 11:00****Matrix: Solid****Date Received: 02/14/23 16:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		5			46412	02/15/23 14:40	CH	EET MID

Client Sample ID: TW-1-S-25-230213**Lab Sample ID: 880-24739-6****Date Collected: 02/13/23 11:10****Matrix: Solid****Date Received: 02/14/23 16:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		10			46412	02/15/23 14:54	CH	EET MID

Client Sample ID: TW-1-S-30-230213**Lab Sample ID: 880-24739-7****Date Collected: 02/13/23 11:20****Matrix: Solid****Date Received: 02/14/23 16:00**

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	46933	02/22/23 09:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46926	02/23/23 10:12	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: TW-1-S-30-230213**Lab Sample ID: 880-24739-7****Date Collected: 02/13/23 11:20****Matrix: Solid****Date Received: 02/14/23 16:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			47056	02/23/23 12:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46962	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46823	02/21/23 12:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 18:06	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		10			46412	02/15/23 14:59	CH	EET MID

Client Sample ID: TW-1-S-35-230213**Lab Sample ID: 880-24739-8****Date Collected: 02/13/23 11:30****Matrix: Solid****Date Received: 02/14/23 16:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		5			46412	02/15/23 15:04	CH	EET MID

Client Sample ID: TW-1-S-40-230213**Lab Sample ID: 880-24739-9****Date Collected: 02/13/23 11:40****Matrix: Solid****Date Received: 02/14/23 16:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		1			46412	02/15/23 15:08	CH	EET MID

Client Sample ID: TW-1-S-45230213**Lab Sample ID: 880-24739-10****Date Collected: 02/13/23 11:50****Matrix: Solid****Date Received: 02/14/23 16:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		1			46412	02/15/23 15:13	CH	EET MID

Client Sample ID: TW-1-W-230216**Lab Sample ID: 880-24871-1****Date Collected: 02/16/23 09:35****Matrix: Water****Date Received: 02/17/23 08:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/20/23 20:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46818	02/20/23 20:22	AJ	EET MID
Total/NA	Analysis	300.0		100			46609	02/17/23 15:14	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	46599	02/17/23 12:22	CH	EET MID

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: TW-2-W-230216**Lab Sample ID: 880-24871-2****Date Collected: 02/16/23 10:00****Matrix: Water****Date Received: 02/17/23 08:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			46609	02/17/23 15:20	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	46599	02/17/23 12:22	CH	EET MID

Client Sample ID: G-44-S-0-6' 20230131**Lab Sample ID: 890-4002-22****Date Collected: 01/31/23 15:00****Matrix: Solid****Date Received: 01/31/23 16:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	45276	02/02/23 15:16	KS	EET MID
Soluble	Analysis	300.0		1			45421	02/03/23 20:45	CH	EET MID

Client Sample ID: G-45-S-0-6' 20230131**Lab Sample ID: 890-4002-23****Date Collected: 01/31/23 15:10****Matrix: Solid****Date Received: 01/31/23 16:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	45276	02/02/23 15:16	KS	EET MID
Soluble	Analysis	300.0		1			45421	02/03/23 20:52	CH	EET MID

Client Sample ID: G-55-S-1'-20230202**Lab Sample ID: 890-4009-1****Date Collected: 02/02/23 14:30****Matrix: Solid****Date Received: 02/02/23 16:04**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	45411	02/03/23 15:26	KS	EET MID
Soluble	Analysis	300.0		1			45591	02/06/23 12:17	CH	EET MID

Client Sample ID: G-61-S-06'-20230802**Lab Sample ID: 890-4069-1****Date Collected: 02/08/23 14:20****Matrix: Solid****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			5.02 g	5 mL	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46060	02/11/23 16:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46230	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			46180	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46071	02/12/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/12/23 22:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	45996	02/10/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46048	02/13/23 09:11	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-62-S-0-6'-20230802

Lab Sample ID: 890-4069-2

Date Collected: 02/08/23 14:30

Matrix: Solid

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	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46060	02/11/23 17:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46230	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			46180	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46071	02/12/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/12/23 23:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	45996	02/10/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46048	02/13/23 09:30	CH	EET MID

Client Sample ID: G-58-S-0-6'-20230802

Lab Sample ID: 890-4069-3

Date Collected: 02/08/23 13:50

Matrix: Solid

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			5.00 g	5 mL	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46060	02/11/23 17:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46230	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			46180	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46071	02/12/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/12/23 23:53	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45996	02/10/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46048	02/13/23 09:36	CH	EET MID

Client Sample ID: G-59-S-0-06'-20230802

Lab Sample ID: 890-4069-4

Date Collected: 02/08/23 14:00

Matrix: Solid

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			4.96 g	5 mL	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46060	02/11/23 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46230	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			46180	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 00:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45996	02/10/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46048	02/13/23 09:42	CH	EET MID

Client Sample ID: G-60-S-0-6'-20230802

Lab Sample ID: 890-4069-5

Date Collected: 02/08/23 14:10

Matrix: Solid

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			5.05 g	5 mL	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46060	02/11/23 18:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46230	02/13/23 19:01	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-60-S-0-6'-20230802

Lab Sample ID: 890-4069-5

Date Collected: 02/08/23 14:10

Matrix: Solid

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	Analysis	8015 NM		1			46180	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 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 00:36	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	45996	02/10/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46048	02/13/23 09:48	CH	EET MID

Client Sample ID: G-63-S-0-6'-20230802

Lab Sample ID: 890-4069-6

Date Collected: 02/08/23 14:40

Matrix: Solid

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	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46060	02/11/23 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46230	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			46180	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 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 00:57	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	45996	02/10/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46048	02/13/23 10:07	CH	EET MID

Client Sample ID: S-1-S-1'-20230223

Lab Sample ID: 890-4177-1

Date Collected: 02/22/23 14:00

Matrix: Solid

Date Received: 02/22/23 15:59

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	47345	02/27/23 15:41	KS	EET MID
Soluble	Analysis	300.0		1			47420	02/28/23 12:54	CH	EET MID

Client Sample ID: S-1-S-2'-20230223

Lab Sample ID: 890-4177-2

Date Collected: 02/22/23 14:10

Matrix: Solid

Date Received: 02/22/23 15:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	47345	02/27/23 15:41	KS	EET MID
Soluble	Analysis	300.0		1			47420	02/28/23 12:59	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

1
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Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24087-1	G-3-S-0-6"-20230123	Solid	01/23/23 13:00	01/25/23 11:47
880-24087-2	G-1-S-0-6"-20230123	Solid	01/23/23 12:30	01/25/23 11:47
880-24087-3	G-2-S-0-6"-20230123	Solid	01/23/23 12:40	01/25/23 11:47
880-24087-4	G-11-S-0-6"-20230123	Solid	01/23/23 13:10	01/25/23 11:47
880-24087-5	G-12-S-0-6"-20230123	Solid	01/23/23 13:20	01/25/23 11:47
880-24087-6	G-14-S-0-6"-20230123	Solid	01/23/23 13:30	01/25/23 11:47
880-24087-7	G-25-S-0-6"-20230123	Solid	01/23/23 13:45	01/25/23 11:47
880-24087-8	G-26-S-0-6"-20230123	Solid	01/23/23 14:00	01/25/23 11:47
880-24087-9	G-27-S-0-6"-20230123	Solid	01/23/23 14:10	01/25/23 11:47
880-24087-10	G-28-S-0-6"-20230123	Solid	01/23/23 14:25	01/25/23 11:47
880-24087-11	G-31-S-0-6"-20230123	Solid	01/23/23 14:40	01/25/23 11:47
880-24087-12	G-32-S-20230123	Solid	01/23/23 14:55	01/25/23 11:47
880-24087-13	G-34-S-20230123	Solid	01/23/23 15:20	01/25/23 11:47
880-24087-14	G-7-S-20230123	Solid	01/23/23 15:40	01/25/23 11:47
880-24087-15	G-33-S-20230123	Solid	01/23/23 15:30	01/25/23 11:47
880-24257-1	G-35-S-0-6"-20230127	Solid	01/27/23 13:00	02/02/23 11:50
880-24257-2	G-36-S-0-6"-20230127	Solid	01/27/23 13:10	02/02/23 11:50
880-24257-3	G-37-S-0-6"-20230127	Solid	01/27/23 13:20	02/02/23 11:50
880-24257-4	G-38-S-0-6"-20230127	Solid	01/27/23 13:30	02/02/23 11:50
880-24257-5	G-39-S-0-6"-20230127	Solid	01/27/23 13:40	02/02/23 11:50
880-24257-6	G-41-S-0-6"-20230127	Solid	01/27/23 13:50	02/02/23 11:50
880-24257-7	G-42-S-0-6"-20230127	Solid	01/27/23 14:00	02/02/23 11:50
880-24739-1	TW-1-S-0-0.5-230213	Solid	02/13/23 08:30	02/14/23 16:00
880-24739-2	TW-1-S-4-5-230213	Solid	02/13/23 10:30	02/14/23 16:00
880-24739-3	TW-1-S-10-230213	Solid	02/13/23 10:40	02/14/23 16:00
880-24739-4	TW-1-S-15-230213	Solid	02/13/23 10:50	02/14/23 16:00
880-24739-5	TW-1-S-20-230213	Solid	02/13/23 11:00	02/14/23 16:00
880-24739-6	TW-1-S-25-230213	Solid	02/13/23 11:10	02/14/23 16:00
880-24739-7	TW-1-S-30-230213	Solid	02/13/23 11:20	02/14/23 16:00
880-24739-8	TW-1-S-35-230213	Solid	02/13/23 11:30	02/14/23 16:00
880-24739-9	TW-1-S-40-230213	Solid	02/13/23 11:40	02/14/23 16:00
880-24739-10	TW-1-S-45-230213	Solid	02/13/23 11:50	02/14/23 16:00
880-24871-1	TW-1-W-230216	Water	02/16/23 09:35	02/17/23 08:45
880-24871-2	TW-2-W-230216	Water	02/16/23 10:00	02/17/23 08:45
890-4002-22	G-44-S-0-6' 20230131	Solid	01/31/23 15:00	01/31/23 16:12
890-4002-23	G-45-S-0-6' 20230131	Solid	01/31/23 15:10	01/31/23 16:12
890-4009-1	G-55-S-1'-20230202	Solid	02/02/23 14:30	02/02/23 16:04
890-4069-1	G-61-S-06'-20230802	Solid	02/08/23 14:20	02/08/23 16:01
890-4069-2	G-62-S-0-6'-20230802	Solid	02/08/23 14:30	02/08/23 16:01
890-4069-3	G-58-S-0-6'-20230802	Solid	02/08/23 13:50	02/08/23 16:01
890-4069-4	G-59-S-0-06'-20230802	Solid	02/08/23 14:00	02/08/23 16:01
890-4069-5	G-60-S-0-6'-20230802	Solid	02/08/23 14:10	02/08/23 16:01
890-4069-6	G-63-S-0-6'-20230802	Solid	02/08/23 14:40	02/08/23 16:01
890-4177-1	S-1-S-1'-20230223	Solid	02/22/23 14:00	02/22/23 15:59
890-4177-2	S-1-S-2'-20230223	Solid	02/22/23 14:10	02/22/23 15:59

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 890-4177-1

SDG Number: 88001630

Login Number: 4177**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: 890-4177-1

SDG Number: 88001630

Login Number: 4177**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 02/24/23 10:52 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/21/2023 10:14:07 AM

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER Eddy County, NM

JOB NUMBER

880-30743-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
7/21/2023 10:14:07 AM

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

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Laboratory Job ID: 880-30743-1
SDG: Eddy County, NM

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Preliminary Data

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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 US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Job ID: 880-30743-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-30743-1

Receipt
The samples were received on 7/14/2023 11:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C

GC 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.

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

Preliminary Data

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-1-S-2'-20230713

Lab Sample ID: 880-30743-1

Date Collected: 07/13/23 10:00

Matrix: Solid

Date Received: 07/14/23 11:07

Percent Solids: 94.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000409	U	0.00212	0.000409	mg/Kg	☆	07/17/23 13:55	07/20/23 11:42	1
Toluene	<0.000484	U	0.00212	0.000484	mg/Kg	☆	07/17/23 13:55	07/20/23 11:42	1
Ethylbenzene	<0.000600	U	0.00212	0.000600	mg/Kg	☆	07/17/23 13:55	07/20/23 11:42	1
m-Xylene & p-Xylene	<0.00107	U	0.00425	0.00107	mg/Kg	☆	07/17/23 13:55	07/20/23 11:42	1
o-Xylene	0.000373	J	0.00212	0.000365	mg/Kg	☆	07/17/23 13:55	07/20/23 11:42	1
Xylenes, Total	<0.00107	U	0.00425	0.00107	mg/Kg	☆	07/17/23 13:55	07/20/23 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	07/17/23 13:55	07/20/23 11:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130	07/17/23 13:55	07/20/23 11:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.6		5.26	0.415	mg/Kg	☆		07/17/23 10:50	1

Client Sample ID: SW-2-S-2'-20230713

Lab Sample ID: 880-30743-2

Date Collected: 07/13/23 10:10

Matrix: Solid

Date Received: 07/14/23 11:07

Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000401	U	0.00208	0.000401	mg/Kg	☆	07/17/23 13:55	07/20/23 12:02	1
Toluene	<0.000475	U	0.00208	0.000475	mg/Kg	☆	07/17/23 13:55	07/20/23 12:02	1
Ethylbenzene	<0.000588	U	0.00208	0.000588	mg/Kg	☆	07/17/23 13:55	07/20/23 12:02	1
m-Xylene & p-Xylene	<0.00105	U	0.00416	0.00105	mg/Kg	☆	07/17/23 13:55	07/20/23 12:02	1
o-Xylene	<0.000358	U	0.00208	0.000358	mg/Kg	☆	07/17/23 13:55	07/20/23 12:02	1
Xylenes, Total	<0.00105	U	0.00416	0.00105	mg/Kg	☆	07/17/23 13:55	07/20/23 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	07/17/23 13:55	07/20/23 12:02	1
1,4-Difluorobenzene (Surr)	113		70 - 130	07/17/23 13:55	07/20/23 12:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	466		5.24	0.414	mg/Kg	☆		07/17/23 11:06	1

Client Sample ID: SW-3-S-2'-20230713

Lab Sample ID: 880-30743-3

Date Collected: 07/13/23 10:20

Matrix: Solid

Date Received: 07/14/23 11:07

Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000465	J	0.00202	0.000388	mg/Kg	☆	07/17/23 13:55	07/20/23 12:23	1
Toluene	0.000475	J	0.00202	0.000460	mg/Kg	☆	07/17/23 13:55	07/20/23 12:23	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg	☆	07/17/23 13:55	07/20/23 12:23	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg	☆	07/17/23 13:55	07/20/23 12:23	1
o-Xylene	0.000349	J	0.00202	0.000347	mg/Kg	☆	07/17/23 13:55	07/20/23 12:23	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg	☆	07/17/23 13:55	07/20/23 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	07/17/23 13:55	07/20/23 12:23	1
1,4-Difluorobenzene (Surr)	118		70 - 130	07/17/23 13:55	07/20/23 12:23	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-3-S-2'-20230713

Lab Sample ID: 880-30743-3

Date Collected: 07/13/23 10:20

Matrix: Solid

Date Received: 07/14/23 11:07

Percent Solids: 98.2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		5.05	0.399	mg/Kg	☆		07/17/23 11:11	1

Client Sample ID: SW-4-S-2'-20230713

Lab Sample ID: 880-30743-4

Date Collected: 07/13/23 10:30

Matrix: Solid

Date Received: 07/14/23 11:07

Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000392	U	0.00204	0.000392	mg/Kg	☆	07/17/23 13:55	07/20/23 12:44	1
Toluene	<0.000465	U	0.00204	0.000465	mg/Kg	☆	07/17/23 13:55	07/20/23 12:44	1
Ethylbenzene	<0.000576	U	0.00204	0.000576	mg/Kg	☆	07/17/23 13:55	07/20/23 12:44	1
m-Xylene & p-Xylene	0.00120	J	0.00408	0.00103	mg/Kg	☆	07/17/23 13:55	07/20/23 12:44	1
o-Xylene	0.000434	J	0.00204	0.000351	mg/Kg	☆	07/17/23 13:55	07/20/23 12:44	1
Xylenes, Total	0.00163	J	0.00408	0.00103	mg/Kg	☆	07/17/23 13:55	07/20/23 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	07/17/23 13:55	07/20/23 12:44	1
1,4-Difluorobenzene (Surr)	115		70 - 130	07/17/23 13:55	07/20/23 12:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		5.08	0.401	mg/Kg	☆		07/17/23 11:16	1

Client Sample ID: SW-5-S-2'-20230713

Lab Sample ID: 880-30743-5

Date Collected: 07/13/23 10:40

Matrix: Solid

Date Received: 07/14/23 11:07

Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000396	U	0.00206	0.000396	mg/Kg	☆	07/17/23 13:55	07/20/23 13:04	1
Toluene	<0.000469	U	0.00206	0.000469	mg/Kg	☆	07/17/23 13:55	07/20/23 13:04	1
Ethylbenzene	<0.000581	U	0.00206	0.000581	mg/Kg	☆	07/17/23 13:55	07/20/23 13:04	1
m-Xylene & p-Xylene	<0.00104	U	0.00411	0.00104	mg/Kg	☆	07/17/23 13:55	07/20/23 13:04	1
o-Xylene	<0.000354	U	0.00206	0.000354	mg/Kg	☆	07/17/23 13:55	07/20/23 13:04	1
Xylenes, Total	<0.00104	U	0.00411	0.00104	mg/Kg	☆	07/17/23 13:55	07/20/23 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	07/17/23 13:55	07/20/23 13:04	1
1,4-Difluorobenzene (Surr)	116		70 - 130	07/17/23 13:55	07/20/23 13:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		5.08	0.401	mg/Kg	☆		07/17/23 11:21	1

Client Sample ID: SW-6-S-2'-20230713

Lab Sample ID: 880-30743-6

Date Collected: 07/13/23 10:50

Matrix: Solid

Date Received: 07/14/23 11:07

Percent Solids: 99.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00201	0.000386	mg/Kg	☆	07/17/23 13:55	07/20/23 13:25	1
Toluene	<0.000457	U	0.00201	0.000457	mg/Kg	☆	07/17/23 13:55	07/20/23 13:25	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-6-S-2'-20230713

Lab Sample ID: 880-30743-6

Date Collected: 07/13/23 10:50

Matrix: Solid

Date Received: 07/14/23 11:07

Percent Solids: 99.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg	☆	07/17/23 13:55	07/20/23 13:25	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg	☆	07/17/23 13:55	07/20/23 13:25	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg	☆	07/17/23 13:55	07/20/23 13:25	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	☆	07/17/23 13:55	07/20/23 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	07/17/23 13:55	07/20/23 13:25	1
1,4-Difluorobenzene (Surr)	114		70 - 130	07/17/23 13:55	07/20/23 13:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	333		5.00	0.395	mg/Kg	☆		07/17/23 11:36	1

Client Sample ID: SW-7-S-2'-20230713

Lab Sample ID: 880-30743-7

Date Collected: 07/13/23 11:00

Matrix: Solid

Date Received: 07/14/23 11:07

Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000394	U	0.00205	0.000394	mg/Kg	☆	07/17/23 13:55	07/20/23 13:46	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	☆	07/17/23 13:55	07/20/23 13:46	1
Ethylbenzene	<0.000579	U	0.00205	0.000579	mg/Kg	☆	07/17/23 13:55	07/20/23 13:46	1
m-Xylene & p-Xylene	<0.00103	U	0.00410	0.00103	mg/Kg	☆	07/17/23 13:55	07/20/23 13:46	1
o-Xylene	<0.000352	U	0.00205	0.000352	mg/Kg	☆	07/17/23 13:55	07/20/23 13:46	1
Xylenes, Total	<0.00103	U	0.00410	0.00103	mg/Kg	☆	07/17/23 13:55	07/20/23 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	07/17/23 13:55	07/20/23 13:46	1
1,4-Difluorobenzene (Surr)	113		70 - 130	07/17/23 13:55	07/20/23 13:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		5.07	0.401	mg/Kg	☆		07/17/23 11:42	1

Client Sample ID: SW-8-S-2'-20230713

Lab Sample ID: 880-30743-8

Date Collected: 07/13/23 11:10

Matrix: Solid

Date Received: 07/14/23 11:07

Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000394	U	0.00205	0.000394	mg/Kg	☆	07/17/23 13:55	07/20/23 14:07	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	☆	07/17/23 13:55	07/20/23 14:07	1
Ethylbenzene	<0.000578	U	0.00205	0.000578	mg/Kg	☆	07/17/23 13:55	07/20/23 14:07	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☆	07/17/23 13:55	07/20/23 14:07	1
o-Xylene	<0.000352	U	0.00205	0.000352	mg/Kg	☆	07/17/23 13:55	07/20/23 14:07	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☆	07/17/23 13:55	07/20/23 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	07/17/23 13:55	07/20/23 14:07	1
1,4-Difluorobenzene (Surr)	116		70 - 130	07/17/23 13:55	07/20/23 14:07	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-8-S-2'-20230713
Date Collected: 07/13/23 11:10
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-8
Matrix: Solid
Percent Solids: 98.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	262		5.08	0.401	mg/Kg	☼		07/17/23 11:47	1

Preliminary Data

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Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-30743-1	SW-1-S-2'-20230713	88	105
880-30743-1 MS	SW-1-S-2'-20230713	104	105
880-30743-1 MSD	SW-1-S-2'-20230713	112	104
880-30743-2	SW-2-S-2'-20230713	90	113
880-30743-3	SW-3-S-2'-20230713	88	118
880-30743-4	SW-4-S-2'-20230713	91	115
880-30743-5	SW-5-S-2'-20230713	90	116
880-30743-6	SW-6-S-2'-20230713	88	114
880-30743-7	SW-7-S-2'-20230713	85	113
880-30743-8	SW-8-S-2'-20230713	89	116
LCS 880-57844/1-A	Lab Control Sample	95	100
LCSD 880-57844/2-A	Lab Control Sample Dup	89	103
MB 880-57844/5-A	Method Blank	83	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57844/5-A

Matrix: Solid

Analysis Batch: 58089

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/17/23 13:55	07/20/23 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	07/17/23 13:55	07/20/23 11:20	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/17/23 13:55	07/20/23 11:20	1

Lab Sample ID: LCS 880-57844/1-A

Matrix: Solid

Analysis Batch: 58089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1031		mg/Kg		103	70 - 130
Toluene	0.100	0.1080		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.09914		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1936		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09607		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-57844/2-A

Matrix: Solid

Analysis Batch: 58089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57844

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1039		mg/Kg		104	70 - 130	1	35
Toluene	0.100	0.1047		mg/Kg		105	70 - 130	3	35
Ethylbenzene	0.100	0.09470		mg/Kg		95	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1830		mg/Kg		91	70 - 130	6	35
o-Xylene	0.100	0.09070		mg/Kg		91	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-30743-1 MS

Matrix: Solid

Analysis Batch: 58089

Client Sample ID: SW-1-S-2'-20230713

Prep Type: Total/NA

Prep Batch: 57844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000409	U	0.105	0.1092		mg/Kg	☼	104	70 - 130
Toluene	<0.000484	U	0.105	0.1095		mg/Kg	☼	104	70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-30743-1 MS

Matrix: Solid

Analysis Batch: 58089

Client Sample ID: SW-1-S-2'-20230713

Prep Type: Total/NA

Prep Batch: 57844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000600	U	0.105	0.09676		mg/Kg	✱	92	70 - 130
m-Xylene & p-Xylene	<0.00107	U	0.210	0.1878		mg/Kg	✱	89	70 - 130
o-Xylene	0.000373	J	0.105	0.09491		mg/Kg	✱	90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-30743-1 MSD

Matrix: Solid

Analysis Batch: 58089

Client Sample ID: SW-1-S-2'-20230713

Prep Type: Total/NA

Prep Batch: 57844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.000409	U	0.105	0.1017		mg/Kg	✱	97	70 - 130	7	35
Toluene	<0.000484	U	0.105	0.1123		mg/Kg	✱	107	70 - 130	3	35
Ethylbenzene	<0.000600	U	0.105	0.1027		mg/Kg	✱	98	70 - 130	6	35
m-Xylene & p-Xylene	<0.00107	U	0.210	0.2038		mg/Kg	✱	97	70 - 130	8	35
o-Xylene	0.000373	J	0.105	0.1027		mg/Kg	✱	97	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57698/1-A

Matrix: Solid

Analysis Batch: 57824

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/17/23 10:35	1

Lab Sample ID: LCS 880-57698/2-A

Matrix: Solid

Analysis Batch: 57824

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-57698/3-A

Matrix: Solid

Analysis Batch: 57824

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	247.5		mg/Kg		99	90 - 110	1	20

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-30743-1 MS

Matrix: Solid

Analysis Batch: 57824

Client Sample ID: SW-1-S-2'-20230713

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	47.6		263	319.3		mg/Kg	☼	103	90 - 110

Lab Sample ID: 880-30743-1 MSD

Matrix: Solid

Analysis Batch: 57824

Client Sample ID: SW-1-S-2'-20230713

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	47.6		263	318.0		mg/Kg	☼	103	90 - 110	0	20

Preliminary Data

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 57844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-1	SW-1-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-2	SW-2-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-3	SW-3-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-4	SW-4-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-5	SW-5-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-6	SW-6-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-7	SW-7-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-8	SW-8-S-2'-20230713	Total/NA	Solid	5030B	
MB 880-57844/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-57844/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-57844/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-30743-1 MS	SW-1-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-1 MSD	SW-1-S-2'-20230713	Total/NA	Solid	5030B	

Analysis Batch: 58089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-1	SW-1-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-2	SW-2-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-3	SW-3-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-4	SW-4-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-5	SW-5-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-6	SW-6-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-7	SW-7-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-8	SW-8-S-2'-20230713	Total/NA	Solid	8021B	57844
MB 880-57844/5-A	Method Blank	Total/NA	Solid	8021B	57844
LCS 880-57844/1-A	Lab Control Sample	Total/NA	Solid	8021B	57844
LCSD 880-57844/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57844
880-30743-1 MS	SW-1-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-1 MSD	SW-1-S-2'-20230713	Total/NA	Solid	8021B	57844

HPLC/IC

Leach Batch: 57698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-1	SW-1-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-2	SW-2-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-3	SW-3-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-4	SW-4-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-5	SW-5-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-6	SW-6-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-7	SW-7-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-8	SW-8-S-2'-20230713	Soluble	Solid	DI Leach	
MB 880-57698/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57698/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57698/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30743-1 MS	SW-1-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-1 MSD	SW-1-S-2'-20230713	Soluble	Solid	DI Leach	

Analysis Batch: 57824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-1	SW-1-S-2'-20230713	Soluble	Solid	300.0	57698

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 57824 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-2	SW-2-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-3	SW-3-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-4	SW-4-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-5	SW-5-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-6	SW-6-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-7	SW-7-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-8	SW-8-S-2'-20230713	Soluble	Solid	300.0	57698
MB 880-57698/1-A	Method Blank	Soluble	Solid	300.0	57698
LCS 880-57698/2-A	Lab Control Sample	Soluble	Solid	300.0	57698
LCSD 880-57698/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57698
880-30743-1 MS	SW-1-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-1 MSD	SW-1-S-2'-20230713	Soluble	Solid	300.0	57698

General Chemistry

Analysis Batch: 57715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-1	SW-1-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-2	SW-2-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-3	SW-3-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-4	SW-4-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-5	SW-5-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-6	SW-6-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-7	SW-7-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-8	SW-8-S-2'-20230713	Total/NA	Solid	D2216	
MB 880-57715/1	Method Blank	Total/NA	Solid	D2216	
880-30743-1 DU	SW-1-S-2'-20230713	Total/NA	Solid	D2216	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-1-S-2'-20230713**Lab Sample ID: 880-30743-1****Date Collected: 07/13/23 10:00****Matrix: Solid****Date Received: 07/14/23 11:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-1-S-2'-20230713**Lab Sample ID: 880-30743-1****Date Collected: 07/13/23 10:00****Matrix: Solid****Date Received: 07/14/23 11:07****Percent Solids: 94.9**

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	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 11:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 10:50	SMC	EET MID

Client Sample ID: SW-2-S-2'-20230713**Lab Sample ID: 880-30743-2****Date Collected: 07/13/23 10:10****Matrix: Solid****Date Received: 07/14/23 11:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-2-S-2'-20230713**Lab Sample ID: 880-30743-2****Date Collected: 07/13/23 10:10****Matrix: Solid****Date Received: 07/14/23 11:07****Percent Solids: 95.5**

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	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 12:02	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:06	SMC	EET MID

Client Sample ID: SW-3-S-2'-20230713**Lab Sample ID: 880-30743-3****Date Collected: 07/13/23 10:20****Matrix: Solid****Date Received: 07/14/23 11:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-3-S-2'-20230713**Lab Sample ID: 880-30743-3****Date Collected: 07/13/23 10:20****Matrix: Solid****Date Received: 07/14/23 11:07****Percent Solids: 98.2**

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	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 12:23	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:11	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-4-S-2'-20230713**Lab Sample ID: 880-30743-4****Date Collected: 07/13/23 10:30****Matrix: Solid****Date Received: 07/14/23 11:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-4-S-2'-20230713**Lab Sample ID: 880-30743-4****Date Collected: 07/13/23 10:30****Matrix: Solid****Date Received: 07/14/23 11:07****Percent Solids: 98.7**

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	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 12:44	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:16	SMC	EET MID

Client Sample ID: SW-5-S-2'-20230713**Lab Sample ID: 880-30743-5****Date Collected: 07/13/23 10:40****Matrix: Solid****Date Received: 07/14/23 11:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-5-S-2'-20230713**Lab Sample ID: 880-30743-5****Date Collected: 07/13/23 10:40****Matrix: Solid****Date Received: 07/14/23 11:07****Percent Solids: 98.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 13:04	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:21	SMC	EET MID

Client Sample ID: SW-6-S-2'-20230713**Lab Sample ID: 880-30743-6****Date Collected: 07/13/23 10:50****Matrix: Solid****Date Received: 07/14/23 11:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-6-S-2'-20230713**Lab Sample ID: 880-30743-6****Date Collected: 07/13/23 10:50****Matrix: Solid****Date Received: 07/14/23 11:07****Percent Solids: 99.1**

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	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 13:25	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:36	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-7-S-2'-20230713

Lab Sample ID: 880-30743-7

Date Collected: 07/13/23 11:00

Matrix: Solid

Date Received: 07/14/23 11:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-7-S-2'-20230713

Lab Sample ID: 880-30743-7

Date Collected: 07/13/23 11:00

Matrix: Solid

Date Received: 07/14/23 11:07

Percent Solids: 98.0

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	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 13:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:42	SMC	EET MID

Client Sample ID: SW-8-S-2'-20230713

Lab Sample ID: 880-30743-8

Date Collected: 07/13/23 11:10

Matrix: Solid

Date Received: 07/14/23 11:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-8-S-2'-20230713

Lab Sample ID: 880-30743-8

Date Collected: 07/13/23 11:10

Matrix: Solid

Date Received: 07/14/23 11:07

Percent Solids: 98.5

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	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 14:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:47	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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
D2216		Solid	Percent Solids

Preliminary Data

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5030B	Purge and Trap	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.

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30743-1	SW-1-S-2'-20230713	Solid	07/13/23 10:00	07/14/23 11:07
880-30743-2	SW-2-S-2'-20230713	Solid	07/13/23 10:10	07/14/23 11:07
880-30743-3	SW-3-S-2'-20230713	Solid	07/13/23 10:20	07/14/23 11:07
880-30743-4	SW-4-S-2'-20230713	Solid	07/13/23 10:30	07/14/23 11:07
880-30743-5	SW-5-S-2'-20230713	Solid	07/13/23 10:40	07/14/23 11:07
880-30743-6	SW-6-S-2'-20230713	Solid	07/13/23 10:50	07/14/23 11:07
880-30743-7	SW-7-S-2'-20230713	Solid	07/13/23 11:00	07/14/23 11:07
880-30743-8	SW-8-S-2'-20230713	Solid	07/13/23 11:10	07/14/23 11:07

Preliminary Data

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Eurofins Midland

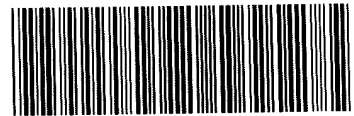
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins

Environment Testing

30743

Client Information		Sampler: <u>Heath. Boyd @ Arcadis</u>		Lab PM: Builes John		Carrier Tracking No(s)		COC No: 880-5081-624 4	
Client Contact: Justin Nixon		Phone: <u>575-942-0292</u>		E-Mail: John Builes@et.eurofinsus.com		State of Origin: NM		Page: Page 4 of 32	
Company: ARCADIS U S Inc.		PWSID		Analysis Requested					
Address: 1004 North Big Spring Suite 300		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G					
City: Midland		TAT Requested (days): <u>24 hr C1', 3-Day ALL ELSE</u>							
State Zip: TX 79701		Compliance Project: ☐ Yes ☐ No							
Phone: 432-296-9547(Tel)		PO #:							
Email: Justin Nixon@arcadis.com		Purchase Order Requested							
Project Name: Chevron Old Indian Draw Unit 001		Project #: 88001630		Total Number of containers Preservation Codes					
Site: <u>Eddy County, NM</u>		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/cil, BT=Tissue, A=Air)	Special Instructions/Note:			
<u>SW-1-S-2'-20230713</u>		<u>7/13/23</u>	<u>1000</u>	<u>C</u>	<u>Solid</u>	 880-30743 Chain of Custody			
<u>SW-2-S-2'-20230713</u>			<u>1010</u>		<u>Solid</u>				
<u>SW-3-S-2'-20230713</u>			<u>1020</u>		<u>Solid</u>				
<u>SW-4-S-2'-20230713</u>			<u>1030</u>		<u>Solid</u>				
<u>SW-5-S-2'-20230713</u>			<u>1040</u>		<u>Solid</u>				
<u>SW-6-S-2'-20230713</u>			<u>1050</u>		<u>Solid</u>				
<u>SW-7-S-2'-20230713</u>			<u>1100</u>		<u>Solid</u>				
<u>SW-8-S-2'-20230713</u>		<u>X</u>	<u>1110</u>	<u>X</u>	<u>Solid</u>				
					<u>Solid</u>				
					<u>Solid</u>				
					<u>Solid</u>				

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: <u>[Signature]</u>		Date/Time: <u>7/13/23 3:50</u>		Company: <u>Arcadis</u>		Received by: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>7/13/23 3:50</u>		Company:		Received by: <u>[Signature]</u>	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact. ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>3.0/2.7</u>			

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-30743-1
SDG Number: Eddy County, NM

Login Number: 30743

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with Immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon

ARCADIS US Inc

1004 North Big Spring

Suite 300

Midland, Texas 79701

Generated 7/31/2023 3:13:48 PM

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001

SDG NUMBER Eddy County, NM

JOB NUMBER

880-30781-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
7/31/2023 3:13:48 PM

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

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Laboratory Job ID: 880-30781-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
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.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Job ID: 880-30781-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-30781-1****Receipt**

The samples were received on 7/17/2023 10:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-1-S-2'-20230714 (880-30781-1), B-2-S-2'-20230714 (880-30781-2), B-3-S-2'-20230714 (880-30781-3), B-4-S-2'-20230714 (880-30781-4), B-5-S-2'-20230714 (880-30781-5), B-6-S-2'-20230714 (880-30781-6), B-7-S-2'-20230714 (880-30781-7), B-8-S-2'-20230714 (880-30781-8), B-9-S-2'-20230714 (880-30781-9), B-10-S-2'-20230714 (880-30781-10), B-11-S-2'-20230714 (880-30781-11), B-12-S-2'-20230714 (880-30781-12), B-13-S-2'-20230714 (880-30781-13), B-14-S-2'-20230714 (880-30781-14), B-15-S-2'-20230714 (880-30781-15), B-16-S-2'-20230714 (880-30781-16), B-17-S-2'-20230714 (880-30781-17), B-18-S-2'-20230714 (880-30781-18), B-19-S-2'-20230714 (880-30781-19), B-20-S-2'-20230714 (880-30781-20), B-21-S-2'-20230714 (880-30781-21), B-22-S-2'-20230714 (880-30781-22), B-23-S-2'-20230714 (880-30781-23), B-24-S-2'-20230714 (880-30781-24), B-25-S-2'-20230714 (880-30781-25), B-26-S-2'-20230714 (880-30781-26), B-27-S-2'-20230714 (880-30781-27), B-28-S-2'-20230714 (880-30781-28) and B-29-S-2'-20230714 (880-30781-29).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-58463/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: B-21-S-2'-20230714 (880-30781-21), B-22-S-2'-20230714 (880-30781-22), B-23-S-2'-20230714 (880-30781-23), B-25-S-2'-20230714 (880-30781-25) and B-29-S-2'-20230714 (880-30781-29). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58417 recovered above the upper control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58417/20).

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-58651 and analytical batch 880-58600 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The CCV was biased low for both diesel and gasoline hydrocarbons. Another CCV was analyzed and acceptable within 12 hours; therefore, the data was qualified and reported.(CCV 880-58684/31)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-58652 and analytical batch 880-58684 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-21-S-2'-20230714 (880-30781-21), B-23-S-2'-20230714 (880-30781-23), B-24-S-2'-20230714 (880-30781-24), B-25-S-2'-20230714 (880-30781-25), B-26-S-2'-20230714 (880-30781-26), B-28-S-2'-20230714 (880-30781-28), B-29-S-2'-20230714 (880-30781-29), (MB 880-58652/1-A), (880-30781-A-22-F MS) and (880-30781-A-22-G MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-57837

Case Narrative

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Job ID: 880-30781-1 (Continued)

Laboratory: Eurofins Midland (Continued)

and 880-57837 and analytical batch 880-58060 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

General Chemistry

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

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-1-S-2'-20230714

Lab Sample ID: 880-30781-1

Date Collected: 07/14/23 09:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000394	U	0.00205	0.000394	mg/Kg	✧	07/24/23 16:31	07/25/23 15:22	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	✧	07/24/23 16:31	07/25/23 15:22	1
Ethylbenzene	<0.000579	U	0.00205	0.000579	mg/Kg	✧	07/24/23 16:31	07/25/23 15:22	1
m-Xylene & p-Xylene	<0.00103	U	0.00410	0.00103	mg/Kg	✧	07/24/23 16:31	07/25/23 15:22	1
o-Xylene	0.000369	J	0.00205	0.000352	mg/Kg	✧	07/24/23 16:31	07/25/23 15:22	1
Xylenes, Total	<0.00103	U	0.00410	0.00103	mg/Kg	✧	07/24/23 16:31	07/25/23 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	07/24/23 16:31	07/25/23 15:22	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/24/23 16:31	07/25/23 15:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00410	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.4	J	51.4	15.4	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U F1	51.4	15.4	mg/Kg	✧	07/27/23 11:51	07/27/23 21:17	1
Diesel Range Organics (Over C10-C28)	19.4	J	51.4	15.4	mg/Kg	✧	07/27/23 11:51	07/27/23 21:17	1
Oil Range Organics (Over C28-C36)	<15.4	U	51.4	15.4	mg/Kg	✧	07/27/23 11:51	07/27/23 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	07/27/23 11:51	07/27/23 21:17	1
o-Terphenyl	85		70 - 130	07/27/23 11:51	07/27/23 21:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	754	F1	5.17	0.409	mg/Kg	✧		07/19/23 23:33	1

Client Sample ID: B-2-S-2'-20230714

Lab Sample ID: 880-30781-2

Date Collected: 07/14/23 09:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 96.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000401	U	0.00208	0.000401	mg/Kg	✧	07/24/23 16:31	07/25/23 15:43	1
Toluene	<0.000475	U	0.00208	0.000475	mg/Kg	✧	07/24/23 16:31	07/25/23 15:43	1
Ethylbenzene	<0.000589	U	0.00208	0.000589	mg/Kg	✧	07/24/23 16:31	07/25/23 15:43	1
m-Xylene & p-Xylene	<0.00105	U	0.00417	0.00105	mg/Kg	✧	07/24/23 16:31	07/25/23 15:43	1
o-Xylene	<0.000359	U	0.00208	0.000359	mg/Kg	✧	07/24/23 16:31	07/25/23 15:43	1
Xylenes, Total	<0.00105	U	0.00417	0.00105	mg/Kg	✧	07/24/23 16:31	07/25/23 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/24/23 16:31	07/25/23 15:43	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/24/23 16:31	07/25/23 15:43	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-2-S-2'-20230714

Lab Sample ID: 880-30781-2

Date Collected: 07/14/23 09:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 96.9

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00105	U	0.00417	0.00105	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	94.9		51.2	15.4	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.2	15.4	mg/Kg	✱	07/27/23 11:51	07/28/23 06:51	1
Diesel Range Organics (Over C10-C28)	65.9		51.2	15.4	mg/Kg	✱	07/27/23 11:51	07/28/23 06:51	1
Oil Range Organics (Over C28-C36)	29.0	J	51.2	15.4	mg/Kg	✱	07/27/23 11:51	07/28/23 06:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				07/27/23 11:51	07/28/23 06:51	1
o-Terphenyl	77		70 - 130				07/27/23 11:51	07/28/23 06:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	314		5.14	0.406	mg/Kg	✱		07/19/23 23:48	1

Client Sample ID: B-3-S-2'-20230714

Lab Sample ID: 880-30781-3

Date Collected: 07/14/23 09:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00212	0.000408	mg/Kg	✱	07/24/23 16:31	07/25/23 16:03	1
Toluene	<0.000484	U	0.00212	0.000484	mg/Kg	✱	07/24/23 16:31	07/25/23 16:03	1
Ethylbenzene	<0.000599	U	0.00212	0.000599	mg/Kg	✱	07/24/23 16:31	07/25/23 16:03	1
m-Xylene & p-Xylene	<0.00107	U	0.00424	0.00107	mg/Kg	✱	07/24/23 16:31	07/25/23 16:03	1
o-Xylene	<0.000365	U	0.00212	0.000365	mg/Kg	✱	07/24/23 16:31	07/25/23 16:03	1
Xylenes, Total	<0.00107	U	0.00424	0.00107	mg/Kg	✱	07/24/23 16:31	07/25/23 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				07/24/23 16:31	07/25/23 16:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130				07/24/23 16:31	07/25/23 16:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00107	U	0.00424	0.00107	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.8	J	52.4	15.7	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.7	U	52.4	15.7	mg/Kg	✱	07/27/23 11:51	07/27/23 22:21	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-3-S-2'-20230714
Date Collected: 07/14/23 09:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-3
Matrix: Solid
Percent Solids: 94.5

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)	20.8	J	52.4	15.7	mg/Kg	☼	07/27/23 11:51	07/27/23 22:21	1
Oil Range Organics (Over C28-C36)	<15.7	U	52.4	15.7	mg/Kg	☼	07/27/23 11:51	07/27/23 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/27/23 11:51	07/27/23 22:21	1
o-Terphenyl	83		70 - 130				07/27/23 11:51	07/27/23 22:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	696		5.26	0.416	mg/Kg	☼		07/19/23 23:54	1

Client Sample ID: B-4-S-2'-20230714
Date Collected: 07/14/23 09:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-4
Matrix: Solid
Percent Solids: 97.3

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000395	U	0.00205	0.000395	mg/Kg	☼	07/24/23 16:31	07/25/23 16:24	1
Toluene	<0.000468	U	0.00205	0.000468	mg/Kg	☼	07/24/23 16:31	07/25/23 16:24	1
Ethylbenzene	<0.000580	U	0.00205	0.000580	mg/Kg	☼	07/24/23 16:31	07/25/23 16:24	1
m-Xylene & p-Xylene	<0.00104	U	0.00410	0.00104	mg/Kg	☼	07/24/23 16:31	07/25/23 16:24	1
o-Xylene	<0.000353	U	0.00205	0.000353	mg/Kg	☼	07/24/23 16:31	07/25/23 16:24	1
Xylenes, Total	<0.00104	U	0.00410	0.00104	mg/Kg	☼	07/24/23 16:31	07/25/23 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				07/24/23 16:31	07/25/23 16:24	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/24/23 16:31	07/25/23 16:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00410	0.00104	mg/Kg			07/26/23 09:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.8		51.9	15.6	mg/Kg			07/28/23 11:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.6	U	51.9	15.6	mg/Kg	☼	07/27/23 11:51	07/27/23 22:43	1
Diesel Range Organics (Over C10-C28)	44.4	J	51.9	15.6	mg/Kg	☼	07/27/23 11:51	07/27/23 22:43	1
Oil Range Organics (Over C28-C36)	16.4	J	51.9	15.6	mg/Kg	☼	07/27/23 11:51	07/27/23 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				07/27/23 11:51	07/27/23 22:43	1
o-Terphenyl	78		70 - 130				07/27/23 11:51	07/27/23 22:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	713		5.16	0.408	mg/Kg	☼		07/19/23 23:59	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-5-S-2'-20230714

Lab Sample ID: 880-30781-5

Date Collected: 07/14/23 09:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00208	0.000400	mg/Kg	✧	07/24/23 16:31	07/25/23 16:44	1
Toluene	0.000533	J	0.00208	0.000473	mg/Kg	✧	07/24/23 16:31	07/25/23 16:44	1
Ethylbenzene	0.000649	J	0.00208	0.000587	mg/Kg	✧	07/24/23 16:31	07/25/23 16:44	1
m-Xylene & p-Xylene	<0.00105	U	0.00415	0.00105	mg/Kg	✧	07/24/23 16:31	07/25/23 16:44	1
o-Xylene	0.000575	J	0.00208	0.000357	mg/Kg	✧	07/24/23 16:31	07/25/23 16:44	1
Xylenes, Total	<0.00105	U	0.00415	0.00105	mg/Kg	✧	07/24/23 16:31	07/25/23 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	07/24/23 16:31	07/25/23 16:44	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/24/23 16:31	07/25/23 16:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00176	J	0.00415	0.00105	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	204		52.7	15.8	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.8	U	52.7	15.8	mg/Kg	✧	07/27/23 11:51	07/27/23 20:11	1
Diesel Range Organics (Over C10-C28)	204		52.7	15.8	mg/Kg	✧	07/27/23 11:51	07/27/23 20:11	1
Oil Range Organics (Over C28-C36)	<15.8	U	52.7	15.8	mg/Kg	✧	07/27/23 11:51	07/27/23 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	07/27/23 11:51	07/27/23 20:11	1
o-Terphenyl	98		70 - 130	07/27/23 11:51	07/27/23 20:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	872		5.18	0.409	mg/Kg	✧		07/20/23 00:04	1

Client Sample ID: B-6-S-2'-20230714

Lab Sample ID: 880-30781-6

Date Collected: 07/14/23 09:50

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000398	U	0.00207	0.000398	mg/Kg	✧	07/24/23 16:31	07/25/23 17:05	1
Toluene	<0.000471	U	0.00207	0.000471	mg/Kg	✧	07/24/23 16:31	07/25/23 17:05	1
Ethylbenzene	<0.000584	U	0.00207	0.000584	mg/Kg	✧	07/24/23 16:31	07/25/23 17:05	1
m-Xylene & p-Xylene	<0.00104	U	0.00413	0.00104	mg/Kg	✧	07/24/23 16:31	07/25/23 17:05	1
o-Xylene	<0.000356	U	0.00207	0.000356	mg/Kg	✧	07/24/23 16:31	07/25/23 17:05	1
Xylenes, Total	<0.00104	U	0.00413	0.00104	mg/Kg	✧	07/24/23 16:31	07/25/23 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	07/24/23 16:31	07/25/23 17:05	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/24/23 16:31	07/25/23 17:05	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-6-S-2'-20230714

Lab Sample ID: 880-30781-6

Date Collected: 07/14/23 09:50

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00413	0.00104	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	830		51.0	15.3	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.0	15.3	mg/Kg	✱	07/27/23 11:51	07/27/23 20:55	1
Diesel Range Organics (Over C10-C28)	830		51.0	15.3	mg/Kg	✱	07/27/23 11:51	07/27/23 20:55	1
Oil Range Organics (Over C28-C36)	<15.3	U	51.0	15.3	mg/Kg	✱	07/27/23 11:51	07/27/23 20:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				07/27/23 11:51	07/27/23 20:55	1
o-Terphenyl	104		70 - 130				07/27/23 11:51	07/27/23 20:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	834		5.18	0.409	mg/Kg	✱		07/20/23 00:19	1

Client Sample ID: B-7-S-2'-20230714

Lab Sample ID: 880-30781-7

Date Collected: 07/14/23 10:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00208	0.000400	mg/Kg	✱	07/24/23 16:31	07/25/23 17:25	1
Toluene	<0.000474	U	0.00208	0.000474	mg/Kg	✱	07/24/23 16:31	07/25/23 17:25	1
Ethylbenzene	<0.000587	U	0.00208	0.000587	mg/Kg	✱	07/24/23 16:31	07/25/23 17:25	1
m-Xylene & p-Xylene	<0.00105	U	0.00416	0.00105	mg/Kg	✱	07/24/23 16:31	07/25/23 17:25	1
o-Xylene	<0.000358	U	0.00208	0.000358	mg/Kg	✱	07/24/23 16:31	07/25/23 17:25	1
Xylenes, Total	<0.00105	U	0.00416	0.00105	mg/Kg	✱	07/24/23 16:31	07/25/23 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				07/24/23 16:31	07/25/23 17:25	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/24/23 16:31	07/25/23 17:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00105	U	0.00416	0.00105	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	150		51.7	15.5	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.5	U	51.7	15.5	mg/Kg	✱	07/27/23 11:51	07/28/23 06:29	1
Diesel Range Organics (Over C10-C28)	106		51.7	15.5	mg/Kg	✱	07/27/23 11:51	07/28/23 06:29	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-7-S-2'-20230714

Lab Sample ID: 880-30781-7

Date Collected: 07/14/23 10:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	43.5	J	51.7	15.5	mg/Kg	☆	07/27/23 11:51	07/28/23 06:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				07/27/23 11:51	07/28/23 06:29	1
o-Terphenyl	86		70 - 130				07/27/23 11:51	07/28/23 06:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		25.9	2.05	mg/Kg	☆		07/20/23 00:24	5

Client Sample ID: B-8-S-2'-20230714

Lab Sample ID: 880-30781-8

Date Collected: 07/14/23 10:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000392	U	0.00203	0.000392	mg/Kg	☆	07/24/23 16:31	07/25/23 17:46	1
Toluene	<0.000464	U	0.00203	0.000464	mg/Kg	☆	07/24/23 16:31	07/25/23 17:46	1
Ethylbenzene	<0.000575	U	0.00203	0.000575	mg/Kg	☆	07/24/23 16:31	07/25/23 17:46	1
m-Xylene & p-Xylene	<0.00103	U	0.00407	0.00103	mg/Kg	☆	07/24/23 16:31	07/25/23 17:46	1
o-Xylene	0.000543	J	0.00203	0.000350	mg/Kg	☆	07/24/23 16:31	07/25/23 17:46	1
Xylenes, Total	<0.00103	U	0.00407	0.00103	mg/Kg	☆	07/24/23 16:31	07/25/23 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				07/24/23 16:31	07/25/23 17:46	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/24/23 16:31	07/25/23 17:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00407	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.9	J	51.7	15.5	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.5	U	51.7	15.5	mg/Kg	☆	07/27/23 11:51	07/27/23 23:05	1
Diesel Range Organics (Over C10-C28)	25.9	J	51.7	15.5	mg/Kg	☆	07/27/23 11:51	07/27/23 23:05	1
Oil Range Organics (Over C28-C36)	<15.5	U	51.7	15.5	mg/Kg	☆	07/27/23 11:51	07/27/23 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/27/23 11:51	07/27/23 23:05	1
o-Terphenyl	84		70 - 130				07/27/23 11:51	07/27/23 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	755		5.12	0.404	mg/Kg	☆		07/20/23 00:29	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-9-S-2'-20230714

Lab Sample ID: 880-30781-9

Date Collected: 07/14/23 10:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	✧	07/24/23 16:31	07/25/23 18:06	1
Toluene	<0.000466	U	0.00204	0.000466	mg/Kg	✧	07/24/23 16:31	07/25/23 18:06	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	✧	07/24/23 16:31	07/25/23 18:06	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	✧	07/24/23 16:31	07/25/23 18:06	1
o-Xylene	<0.000351	U	0.00204	0.000351	mg/Kg	✧	07/24/23 16:31	07/25/23 18:06	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	✧	07/24/23 16:31	07/25/23 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	07/24/23 16:31	07/25/23 18:06	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/24/23 16:31	07/25/23 18:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00409	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	32.1	J	51.5	15.4	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.5	15.4	mg/Kg	✧	07/27/23 11:51	07/27/23 23:26	1
Diesel Range Organics (Over C10-C28)	32.1	J	51.5	15.4	mg/Kg	✧	07/27/23 11:51	07/27/23 23:26	1
Oil Range Organics (Over C28-C36)	<15.4	U	51.5	15.4	mg/Kg	✧	07/27/23 11:51	07/27/23 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	07/27/23 11:51	07/27/23 23:26	1
o-Terphenyl	84		70 - 130	07/27/23 11:51	07/27/23 23:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3260		25.3	2.00	mg/Kg	✧		07/20/23 00:35	5

Client Sample ID: B-10-S-2'-20230714

Lab Sample ID: 880-30781-10

Date Collected: 07/14/23 10:30

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	✧	07/24/23 16:31	07/25/23 18:26	1
Toluene	<0.000466	U	0.00204	0.000466	mg/Kg	✧	07/24/23 16:31	07/25/23 18:26	1
Ethylbenzene	0.000605	J	0.00204	0.000577	mg/Kg	✧	07/24/23 16:31	07/25/23 18:26	1
m-Xylene & p-Xylene	<0.00103	U	0.00408	0.00103	mg/Kg	✧	07/24/23 16:31	07/25/23 18:26	1
o-Xylene	0.000444	J	0.00204	0.000351	mg/Kg	✧	07/24/23 16:31	07/25/23 18:26	1
Xylenes, Total	<0.00103	U	0.00408	0.00103	mg/Kg	✧	07/24/23 16:31	07/25/23 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	07/24/23 16:31	07/25/23 18:26	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/24/23 16:31	07/25/23 18:26	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-10-S-2'-20230714

Lab Sample ID: 880-30781-10

Date Collected: 07/14/23 10:30

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.7

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00105	J	0.00408	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	155		50.7	15.2	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.7	15.2	mg/Kg	✧	07/27/23 11:51	07/27/23 22:43	1
Diesel Range Organics (Over C10-C28)	155		50.7	15.2	mg/Kg	✧	07/27/23 11:51	07/27/23 22:43	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.7	15.2	mg/Kg	✧	07/27/23 11:51	07/27/23 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				07/27/23 11:51	07/27/23 22:43	1
o-Terphenyl	79		70 - 130				07/27/23 11:51	07/27/23 22:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6780		50.9	4.02	mg/Kg	✧		07/20/23 00:40	10

Client Sample ID: B-11-S-2'-20230714

Lab Sample ID: 880-30781-11

Date Collected: 07/14/23 10:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000397	U	0.00206	0.000397	mg/Kg	✧	07/24/23 16:31	07/25/23 20:18	1
Toluene	0.000948	J	0.00206	0.000470	mg/Kg	✧	07/24/23 16:31	07/25/23 20:18	1
Ethylbenzene	<0.000582	U	0.00206	0.000582	mg/Kg	✧	07/24/23 16:31	07/25/23 20:18	1
m-Xylene & p-Xylene	<0.00104	U	0.00412	0.00104	mg/Kg	✧	07/24/23 16:31	07/25/23 20:18	1
o-Xylene	0.000414	J	0.00206	0.000354	mg/Kg	✧	07/24/23 16:31	07/25/23 20:18	1
Xylenes, Total	<0.00104	U	0.00412	0.00104	mg/Kg	✧	07/24/23 16:31	07/25/23 20:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				07/24/23 16:31	07/25/23 20:18	1
1,4-Difluorobenzene (Surr)	94		70 - 130				07/24/23 16:31	07/25/23 20:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00136	J	0.00412	0.00104	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	133		51.4	15.4	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.4	15.4	mg/Kg	✧	07/27/23 11:51	07/28/23 06:29	1
Diesel Range Organics (Over C10-C28)	133		51.4	15.4	mg/Kg	✧	07/27/23 11:51	07/28/23 06:29	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-11-S-2'-20230714

Lab Sample ID: 880-30781-11

Date Collected: 07/14/23 10:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.4	U	51.4	15.4	mg/Kg	☆	07/27/23 11:51	07/28/23 06:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/27/23 11:51	07/28/23 06:29	1
o-Terphenyl	94		70 - 130				07/27/23 11:51	07/28/23 06:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090	F1	25.5	2.02	mg/Kg	☆		07/20/23 00:45	5

Client Sample ID: B-12-S-2'-20230714

Lab Sample ID: 880-30781-12

Date Collected: 07/14/23 11:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000395	U	0.00205	0.000395	mg/Kg	☆	07/24/23 16:31	07/25/23 20:38	1
Toluene	0.000638	J	0.00205	0.000467	mg/Kg	☆	07/24/23 16:31	07/25/23 20:38	1
Ethylbenzene	<0.000579	U	0.00205	0.000579	mg/Kg	☆	07/24/23 16:31	07/25/23 20:38	1
m-Xylene & p-Xylene	<0.00104	U	0.00410	0.00104	mg/Kg	☆	07/24/23 16:31	07/25/23 20:38	1
o-Xylene	<0.000353	U	0.00205	0.000353	mg/Kg	☆	07/24/23 16:31	07/25/23 20:38	1
Xylenes, Total	<0.00104	U	0.00410	0.00104	mg/Kg	☆	07/24/23 16:31	07/25/23 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				07/24/23 16:31	07/25/23 20:38	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/24/23 16:31	07/25/23 20:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00410	0.00104	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.5		50.5	15.1	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.5	15.1	mg/Kg	☆	07/27/23 11:51	07/27/23 20:33	1
Diesel Range Organics (Over C10-C28)	82.5		50.5	15.1	mg/Kg	☆	07/27/23 11:51	07/27/23 20:33	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg	☆	07/27/23 11:51	07/27/23 20:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				07/27/23 11:51	07/27/23 20:33	1
o-Terphenyl	84		70 - 130				07/27/23 11:51	07/27/23 20:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2910		25.4	2.00	mg/Kg	☆		07/20/23 01:00	5

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-13-S-2'-20230714

Lab Sample ID: 880-30781-13

Date Collected: 07/14/23 11:30

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg	✧	07/24/23 16:31	07/25/23 20:58	1
Toluene	0.000507	J	0.00202	0.000460	mg/Kg	✧	07/24/23 16:31	07/25/23 20:58	1
Ethylbenzene	0.000612	J	0.00202	0.000570	mg/Kg	✧	07/24/23 16:31	07/25/23 20:58	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	✧	07/24/23 16:31	07/25/23 20:58	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	✧	07/24/23 16:31	07/25/23 20:58	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	✧	07/24/23 16:31	07/25/23 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				07/24/23 16:31	07/25/23 20:58	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/24/23 16:31	07/25/23 20:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00112	J	0.00404	0.00102	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	185		50.4	15.1	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg	✧	07/27/23 11:51	07/27/23 21:17	1
Diesel Range Organics (Over C10-C28)	185		50.4	15.1	mg/Kg	✧	07/27/23 11:51	07/27/23 21:17	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	✧	07/27/23 11:51	07/27/23 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				07/27/23 11:51	07/27/23 21:17	1
o-Terphenyl	98		70 - 130				07/27/23 11:51	07/27/23 21:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	912		5.07	0.400	mg/Kg	✧		07/20/23 01:05	1

Client Sample ID: B-14-S-2'-20230714

Lab Sample ID: 880-30781-14

Date Collected: 07/14/23 11:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg	✧	07/24/23 16:31	07/25/23 21:19	1
Toluene	0.000712	J	0.00200	0.000457	mg/Kg	✧	07/24/23 16:31	07/25/23 21:19	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	✧	07/24/23 16:31	07/25/23 21:19	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg	✧	07/24/23 16:31	07/25/23 21:19	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	✧	07/24/23 16:31	07/25/23 21:19	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	✧	07/24/23 16:31	07/25/23 21:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				07/24/23 16:31	07/25/23 21:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130				07/24/23 16:31	07/25/23 21:19	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-14-S-2'-20230714

Lab Sample ID: 880-30781-14

Date Collected: 07/14/23 11:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.8

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	169		50.8	15.2	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.8	15.2	mg/Kg	✱	07/27/23 11:51	07/27/23 21:38	1
Diesel Range Organics (Over C10-C28)	169		50.8	15.2	mg/Kg	✱	07/27/23 11:51	07/27/23 21:38	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.8	15.2	mg/Kg	✱	07/27/23 11:51	07/27/23 21:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				07/27/23 11:51	07/27/23 21:38	1
o-Terphenyl	81		70 - 130				07/27/23 11:51	07/27/23 21:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680		25.4	2.00	mg/Kg	✱		07/20/23 01:21	5

Client Sample ID: B-15-S-2'-20230714

Lab Sample ID: 880-30781-15

Date Collected: 07/14/23 11:50

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg	✱	07/24/23 16:31	07/25/23 21:39	1
Toluene	0.000503	J	0.00202	0.000460	mg/Kg	✱	07/24/23 16:31	07/25/23 21:39	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg	✱	07/24/23 16:31	07/25/23 21:39	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	✱	07/24/23 16:31	07/25/23 21:39	1
o-Xylene	0.000369	J	0.00202	0.000347	mg/Kg	✱	07/24/23 16:31	07/25/23 21:39	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	✱	07/24/23 16:31	07/25/23 21:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				07/24/23 16:31	07/25/23 21:39	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/24/23 16:31	07/25/23 21:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	243		51.1	15.3	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.1	15.3	mg/Kg	✱	07/27/23 11:51	07/27/23 22:00	1
Diesel Range Organics (Over C10-C28)	243		51.1	15.3	mg/Kg	✱	07/27/23 11:51	07/27/23 22:00	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-15-S-2'-20230714

Lab Sample ID: 880-30781-15

Date Collected: 07/14/23 11:50

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	☆	07/27/23 11:51	07/27/23 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/27/23 11:51	07/27/23 22:00	1
o-Terphenyl	87		70 - 130				07/27/23 11:51	07/27/23 22:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		25.5	2.01	mg/Kg	☆		07/20/23 01:26	5

Client Sample ID: B-16-S-2'-20230714

Lab Sample ID: 880-30781-16

Date Collected: 07/14/23 12:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☆	07/24/23 16:31	07/25/23 22:00	1
Toluene	0.000598	J	0.00204	0.000465	mg/Kg	☆	07/24/23 16:31	07/25/23 22:00	1
Ethylbenzene	<0.000576	U	0.00204	0.000576	mg/Kg	☆	07/24/23 16:31	07/25/23 22:00	1
m-Xylene & p-Xylene	<0.00103	U	0.00408	0.00103	mg/Kg	☆	07/24/23 16:31	07/25/23 22:00	1
o-Xylene	0.000409	J	0.00204	0.000351	mg/Kg	☆	07/24/23 16:31	07/25/23 22:00	1
Xylenes, Total	<0.00103	U	0.00408	0.00103	mg/Kg	☆	07/24/23 16:31	07/25/23 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				07/24/23 16:31	07/25/23 22:00	1
1,4-Difluorobenzene (Surr)	103		70 - 130				07/24/23 16:31	07/25/23 22:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00408	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	148		51.2	15.4	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.2	15.4	mg/Kg	☆	07/27/23 11:51	07/27/23 22:21	1
Diesel Range Organics (Over C10-C28)	148		51.2	15.4	mg/Kg	☆	07/27/23 11:51	07/27/23 22:21	1
Oil Range Organics (Over C28-C36)	<15.4	U	51.2	15.4	mg/Kg	☆	07/27/23 11:51	07/27/23 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/27/23 11:51	07/27/23 22:21	1
o-Terphenyl	89		70 - 130				07/27/23 11:51	07/27/23 22:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	767		5.07	0.401	mg/Kg	☆		07/20/23 01:31	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-17-S-2'-20230714

Lab Sample ID: 880-30781-17

Date Collected: 07/14/23 12:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000395	U	0.00205	0.000395	mg/Kg	✧	07/24/23 16:31	07/25/23 22:20	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	✧	07/24/23 16:31	07/25/23 22:20	1
Ethylbenzene	0.000711	J	0.00205	0.000579	mg/Kg	✧	07/24/23 16:31	07/25/23 22:20	1
m-Xylene & p-Xylene	<0.00104	U	0.00410	0.00104	mg/Kg	✧	07/24/23 16:31	07/25/23 22:20	1
o-Xylene	0.000358	J	0.00205	0.000353	mg/Kg	✧	07/24/23 16:31	07/25/23 22:20	1
Xylenes, Total	<0.00104	U	0.00410	0.00104	mg/Kg	✧	07/24/23 16:31	07/25/23 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/24/23 16:31	07/25/23 22:20	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/24/23 16:31	07/25/23 22:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00107	J	0.00410	0.00104	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	149		50.5	15.2	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.5	15.2	mg/Kg	✧	07/27/23 11:51	07/27/23 23:05	1
Diesel Range Organics (Over C10-C28)	149		50.5	15.2	mg/Kg	✧	07/27/23 11:51	07/27/23 23:05	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg	✧	07/27/23 11:51	07/27/23 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	07/27/23 11:51	07/27/23 23:05	1
o-Terphenyl	99		70 - 130	07/27/23 11:51	07/27/23 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	412		5.08	0.402	mg/Kg	✧		07/20/23 01:36	1

Client Sample ID: B-18-S-2'-20230714

Lab Sample ID: 880-30781-18

Date Collected: 07/14/23 12:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000390	U	0.00203	0.000390	mg/Kg	✧	07/24/23 16:31	07/25/23 22:41	1
Toluene	<0.000462	U	0.00203	0.000462	mg/Kg	✧	07/24/23 16:31	07/25/23 22:41	1
Ethylbenzene	<0.000573	U	0.00203	0.000573	mg/Kg	✧	07/24/23 16:31	07/25/23 22:41	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	✧	07/24/23 16:31	07/25/23 22:41	1
o-Xylene	0.000350	J	0.00203	0.000349	mg/Kg	✧	07/24/23 16:31	07/25/23 22:41	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	✧	07/24/23 16:31	07/25/23 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/24/23 16:31	07/25/23 22:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/24/23 16:31	07/25/23 22:41	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-18-S-2'-20230714

Lab Sample ID: 880-30781-18

Date Collected: 07/14/23 12:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.4

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00405	0.00102	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	125		50.4	15.1	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg	✱	07/27/23 11:51	07/27/23 23:26	1
Diesel Range Organics (Over C10-C28)	125		50.4	15.1	mg/Kg	✱	07/27/23 11:51	07/27/23 23:26	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	✱	07/27/23 11:51	07/27/23 23:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				07/27/23 11:51	07/27/23 23:26	1
o-Terphenyl	83		70 - 130				07/27/23 11:51	07/27/23 23:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	533		5.07	0.400	mg/Kg	✱		07/20/23 01:41	1

Client Sample ID: B-19-S-2'-20230714

Lab Sample ID: 880-30781-19

Date Collected: 07/14/23 12:30

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000391	U	0.00203	0.000391	mg/Kg	✱	07/24/23 16:31	07/25/23 23:01	1
Toluene	<0.000463	U	0.00203	0.000463	mg/Kg	✱	07/24/23 16:31	07/25/23 23:01	1
Ethylbenzene	0.000636	J	0.00203	0.000573	mg/Kg	✱	07/24/23 16:31	07/25/23 23:01	1
m-Xylene & p-Xylene	<0.00103	U	0.00406	0.00103	mg/Kg	✱	07/24/23 16:31	07/25/23 23:01	1
o-Xylene	0.000387	J	0.00203	0.000349	mg/Kg	✱	07/24/23 16:31	07/25/23 23:01	1
Xylenes, Total	<0.00103	U	0.00406	0.00103	mg/Kg	✱	07/24/23 16:31	07/25/23 23:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/24/23 16:31	07/25/23 23:01	1
1,4-Difluorobenzene (Surr)	103		70 - 130				07/24/23 16:31	07/25/23 23:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00406	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	84.6		50.5	15.1	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.5	15.1	mg/Kg	✱	07/27/23 11:51	07/27/23 23:47	1
Diesel Range Organics (Over C10-C28)	84.6		50.5	15.1	mg/Kg	✱	07/27/23 11:51	07/27/23 23:47	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-19-S-2'-20230714

Lab Sample ID: 880-30781-19

Date Collected: 07/14/23 12:30

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg	☆	07/27/23 11:51	07/27/23 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				07/27/23 11:51	07/27/23 23:47	1
o-Terphenyl	93		70 - 130				07/27/23 11:51	07/27/23 23:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.0		5.09	0.402	mg/Kg	☆		07/20/23 01:46	1

Client Sample ID: B-20-S-2'-20230714

Lab Sample ID: 880-30781-20

Date Collected: 07/14/23 12:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000391	U	0.00203	0.000391	mg/Kg	☆	07/24/23 16:31	07/25/23 23:21	1
Toluene	<0.000463	U	0.00203	0.000463	mg/Kg	☆	07/24/23 16:31	07/25/23 23:21	1
Ethylbenzene	0.000633	J	0.00203	0.000574	mg/Kg	☆	07/24/23 16:31	07/25/23 23:21	1
m-Xylene & p-Xylene	<0.00103	U	0.00407	0.00103	mg/Kg	☆	07/24/23 16:31	07/25/23 23:21	1
o-Xylene	<0.000350	U	0.00203	0.000350	mg/Kg	☆	07/24/23 16:31	07/25/23 23:21	1
Xylenes, Total	<0.00103	U	0.00407	0.00103	mg/Kg	☆	07/24/23 16:31	07/25/23 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				07/24/23 16:31	07/25/23 23:21	1
1,4-Difluorobenzene (Surr)	103		70 - 130				07/24/23 16:31	07/25/23 23:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00407	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.6	J	51.3	15.4	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.3	15.4	mg/Kg	☆	07/27/23 11:51	07/27/23 23:47	1
Diesel Range Organics (Over C10-C28)	25.6	J	51.3	15.4	mg/Kg	☆	07/27/23 11:51	07/27/23 23:47	1
Oil Range Organics (Over C28-C36)	<15.4	U	51.3	15.4	mg/Kg	☆	07/27/23 11:51	07/27/23 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				07/27/23 11:51	07/27/23 23:47	1
o-Terphenyl	76		70 - 130				07/27/23 11:51	07/27/23 23:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		5.06	0.400	mg/Kg	☆		07/20/23 01:51	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-21-S-2'-20230714

Lab Sample ID: 880-30781-21

Date Collected: 07/14/23 13:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000428	J	0.00200	0.000386	mg/Kg	✧	07/25/23 10:46	07/25/23 17:39	1
Toluene	0.00205		0.00200	0.000457	mg/Kg	✧	07/25/23 10:46	07/25/23 17:39	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	✧	07/25/23 10:46	07/25/23 17:39	1
m-Xylene & p-Xylene	0.00112	J	0.00401	0.00101	mg/Kg	✧	07/25/23 10:46	07/25/23 17:39	1
o-Xylene	0.000458	J	0.00200	0.000345	mg/Kg	✧	07/25/23 10:46	07/25/23 17:39	1
Xylenes, Total	0.00158	J	0.00401	0.00101	mg/Kg	✧	07/25/23 10:46	07/25/23 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	07/25/23 10:46	07/25/23 17:39	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130	07/25/23 10:46	07/25/23 17:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00406		0.00401	0.00101	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.7		50.6	15.2	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.6	15.2	mg/Kg	✧	07/27/23 11:54	07/28/23 22:57	1
Diesel Range Organics (Over C10-C28)	86.7		50.6	15.2	mg/Kg	✧	07/27/23 11:54	07/28/23 22:57	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.6	15.2	mg/Kg	✧	07/27/23 11:54	07/28/23 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	07/27/23 11:54	07/28/23 22:57	1
o-Terphenyl	115		70 - 130	07/27/23 11:54	07/28/23 22:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	465		5.06	0.400	mg/Kg	✧		07/19/23 14:00	1

Client Sample ID: B-22-S-2'-20230714

Lab Sample ID: 880-30781-22

Date Collected: 07/14/23 13:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000394	U	0.00204	0.000394	mg/Kg	✧	07/25/23 10:46	07/25/23 18:00	1
Toluene	0.00294		0.00204	0.000466	mg/Kg	✧	07/25/23 10:46	07/25/23 18:00	1
Ethylbenzene	<0.000578	U	0.00204	0.000578	mg/Kg	✧	07/25/23 10:46	07/25/23 18:00	1
m-Xylene & p-Xylene	0.00151	J	0.00409	0.00103	mg/Kg	✧	07/25/23 10:46	07/25/23 18:00	1
o-Xylene	0.000443	J	0.00204	0.000352	mg/Kg	✧	07/25/23 10:46	07/25/23 18:00	1
Xylenes, Total	0.00195	J	0.00409	0.00103	mg/Kg	✧	07/25/23 10:46	07/25/23 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	07/25/23 10:46	07/25/23 18:00	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130	07/25/23 10:46	07/25/23 18:00	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-22-S-2'-20230714

Lab Sample ID: 880-30781-22

Date Collected: 07/14/23 13:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.4

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00489		0.00409	0.00103	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	28.7	J	50.4	15.1	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg	✱	07/27/23 11:54	07/28/23 20:48	1
Diesel Range Organics (Over C10-C28)	28.7	J F1	50.4	15.1	mg/Kg	✱	07/27/23 11:54	07/28/23 20:48	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	✱	07/27/23 11:54	07/28/23 20:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				07/27/23 11:54	07/28/23 20:48	1
o-Terphenyl	116		70 - 130				07/27/23 11:54	07/28/23 20:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		5.04	0.398	mg/Kg	✱		07/19/23 14:15	1

Client Sample ID: B-23-S-2'-20230714

Lab Sample ID: 880-30781-23

Date Collected: 07/14/23 13:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000391	U	0.00203	0.000391	mg/Kg	✱	07/25/23 10:46	07/25/23 18:20	1
Toluene	0.00243		0.00203	0.000463	mg/Kg	✱	07/25/23 10:46	07/25/23 18:20	1
Ethylbenzene	<0.000574	U	0.00203	0.000574	mg/Kg	✱	07/25/23 10:46	07/25/23 18:20	1
m-Xylene & p-Xylene	0.00128	J	0.00406	0.00103	mg/Kg	✱	07/25/23 10:46	07/25/23 18:20	1
o-Xylene	0.000475	J	0.00203	0.000349	mg/Kg	✱	07/25/23 10:46	07/25/23 18:20	1
Xylenes, Total	0.00176	J	0.00406	0.00103	mg/Kg	✱	07/25/23 10:46	07/25/23 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				07/25/23 10:46	07/25/23 18:20	1
1,4-Difluorobenzene (Surr)	61	S1-	70 - 130				07/25/23 10:46	07/25/23 18:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00419		0.00406	0.00103	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	103		50.4	15.1	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg	✱	07/27/23 11:54	07/28/23 23:40	1
Diesel Range Organics (Over C10-C28)	103		50.4	15.1	mg/Kg	✱	07/27/23 11:54	07/28/23 23:40	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-23-S-2'-20230714
Date Collected: 07/14/23 13:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-23
Matrix: Solid
Percent Solids: 98.7

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	☼	07/27/23 11:54	07/28/23 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				07/27/23 11:54	07/28/23 23:40	1
o-Terphenyl	116		70 - 130				07/27/23 11:54	07/28/23 23:40	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	571		5.05	0.399	mg/Kg	☼		07/19/23 14:20	1

Client Sample ID: B-24-S-2'-20230714
Date Collected: 07/14/23 13:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-24
Matrix: Solid
Percent Solids: 98.6

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000392	U	0.00204	0.000392	mg/Kg	☼	07/25/23 10:46	07/25/23 18:41	1
Toluene	0.00119	J	0.00204	0.000465	mg/Kg	☼	07/25/23 10:46	07/25/23 18:41	1
Ethylbenzene	<0.000576	U	0.00204	0.000576	mg/Kg	☼	07/25/23 10:46	07/25/23 18:41	1
m-Xylene & p-Xylene	<0.00103	U	0.00407	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 18:41	1
o-Xylene	<0.000350	U	0.00204	0.000350	mg/Kg	☼	07/25/23 10:46	07/25/23 18:41	1
Xylenes, Total	<0.00103	U	0.00407	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				07/25/23 10:46	07/25/23 18:41	1
1,4-Difluorobenzene (Surr)	76		70 - 130				07/25/23 10:46	07/25/23 18:41	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00119	J	0.00407	0.00103	mg/Kg			07/26/23 09:46	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.5		50.3	15.1	mg/Kg			07/31/23 15:43	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.3	15.1	mg/Kg	☼	07/27/23 11:54	07/29/23 00:01	1
Diesel Range Organics (Over C10-C28)	64.5		50.3	15.1	mg/Kg	☼	07/27/23 11:54	07/29/23 00:01	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.3	15.1	mg/Kg	☼	07/27/23 11:54	07/29/23 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				07/27/23 11:54	07/29/23 00:01	1
o-Terphenyl	123		70 - 130				07/27/23 11:54	07/29/23 00:01	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100		25.5	2.01	mg/Kg	☼		07/19/23 14:35	5

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-25-S-2'-20230714

Lab Sample ID: 880-30781-25

Date Collected: 07/14/23 13:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	✧	07/25/23 10:46	07/25/23 19:01	1
Toluene	0.00208		0.00204	0.000465	mg/Kg	✧	07/25/23 10:46	07/25/23 19:01	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	✧	07/25/23 10:46	07/25/23 19:01	1
m-Xylene & p-Xylene	<0.00103	U	0.00408	0.00103	mg/Kg	✧	07/25/23 10:46	07/25/23 19:01	1
o-Xylene	0.000351	J	0.00204	0.000351	mg/Kg	✧	07/25/23 10:46	07/25/23 19:01	1
Xylenes, Total	<0.00103	U	0.00408	0.00103	mg/Kg	✧	07/25/23 10:46	07/25/23 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	07/25/23 10:46	07/25/23 19:01	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130	07/25/23 10:46	07/25/23 19:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00243	J	0.00408	0.00103	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	209		51.1	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.1	15.3	mg/Kg	✧	07/27/23 11:54	07/28/23 22:14	1
Diesel Range Organics (Over C10-C28)	209		51.1	15.3	mg/Kg	✧	07/27/23 11:54	07/28/23 22:14	1
Oil Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	✧	07/27/23 11:54	07/28/23 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130	07/27/23 11:54	07/28/23 22:14	1
o-Terphenyl	132	S1+	70 - 130	07/27/23 11:54	07/28/23 22:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		25.6	2.02	mg/Kg	✧		07/19/23 14:40	5

Client Sample ID: B-26-S-2'-20230714

Lab Sample ID: 880-30781-26

Date Collected: 07/14/23 13:50

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000390	U	0.00203	0.000390	mg/Kg	✧	07/25/23 10:46	07/25/23 19:22	1
Toluene	0.00109	J	0.00203	0.000462	mg/Kg	✧	07/25/23 10:46	07/25/23 19:22	1
Ethylbenzene	<0.000572	U	0.00203	0.000572	mg/Kg	✧	07/25/23 10:46	07/25/23 19:22	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	✧	07/25/23 10:46	07/25/23 19:22	1
o-Xylene	<0.000348	U	0.00203	0.000348	mg/Kg	✧	07/25/23 10:46	07/25/23 19:22	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	✧	07/25/23 10:46	07/25/23 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	07/25/23 10:46	07/25/23 19:22	1
1,4-Difluorobenzene (Surr)	71		70 - 130	07/25/23 10:46	07/25/23 19:22	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-26-S-2'-20230714

Lab Sample ID: 880-30781-26

Date Collected: 07/14/23 13:50

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00109	J	0.00405	0.00102	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	269		51.0	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.0	15.3	mg/Kg	✱	07/27/23 11:54	07/28/23 22:36	1
Diesel Range Organics (Over C10-C28)	269		51.0	15.3	mg/Kg	✱	07/27/23 11:54	07/28/23 22:36	1
Oil Range Organics (Over C28-C36)	<15.3	U	51.0	15.3	mg/Kg	✱	07/27/23 11:54	07/28/23 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				07/27/23 11:54	07/28/23 22:36	1
o-Terphenyl	118		70 - 130				07/27/23 11:54	07/28/23 22:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	415		5.06	0.400	mg/Kg	✱		07/19/23 14:45	1

Client Sample ID: B-27-S-2'-20230714

Lab Sample ID: 880-30781-27

Date Collected: 07/14/23 14:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	✱	07/25/23 10:46	07/25/23 19:43	1
Toluene	0.00180	J	0.00204	0.000466	mg/Kg	✱	07/25/23 10:46	07/25/23 19:43	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	✱	07/25/23 10:46	07/25/23 19:43	1
m-Xylene & p-Xylene	<0.00103	U	0.00408	0.00103	mg/Kg	✱	07/25/23 10:46	07/25/23 19:43	1
o-Xylene	0.000369	J	0.00204	0.000351	mg/Kg	✱	07/25/23 10:46	07/25/23 19:43	1
Xylenes, Total	<0.00103	U	0.00408	0.00103	mg/Kg	✱	07/25/23 10:46	07/25/23 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				07/25/23 10:46	07/25/23 19:43	1
1,4-Difluorobenzene (Surr)	80		70 - 130				07/25/23 10:46	07/25/23 19:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00217	J	0.00408	0.00103	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	157		51.2	15.4	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.2	15.4	mg/Kg	✱	07/27/23 11:54	07/28/23 23:18	1
Diesel Range Organics (Over C10-C28)	157		51.2	15.4	mg/Kg	✱	07/27/23 11:54	07/28/23 23:18	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-27-S-2'-20230714

Lab Sample ID: 880-30781-27

Date Collected: 07/14/23 14:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.4	U	51.2	15.4	mg/Kg	☆	07/27/23 11:54	07/28/23 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				07/27/23 11:54	07/28/23 23:18	1
o-Terphenyl	117		70 - 130				07/27/23 11:54	07/28/23 23:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3700		25.8	2.04	mg/Kg	☆		07/19/23 14:50	5

Client Sample ID: B-28-S-2'-20230714

Lab Sample ID: 880-30781-28

Date Collected: 07/14/23 14:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000441	J	0.00208	0.000401	mg/Kg	☆	07/25/23 10:46	07/25/23 20:03	1
Toluene	0.00376		0.00208	0.000475	mg/Kg	☆	07/25/23 10:46	07/25/23 20:03	1
Ethylbenzene	0.000763	J	0.00208	0.000588	mg/Kg	☆	07/25/23 10:46	07/25/23 20:03	1
m-Xylene & p-Xylene	0.00216	J	0.00416	0.00105	mg/Kg	☆	07/25/23 10:46	07/25/23 20:03	1
o-Xylene	0.000763	J	0.00208	0.000358	mg/Kg	☆	07/25/23 10:46	07/25/23 20:03	1
Xylenes, Total	0.00292	J	0.00416	0.00105	mg/Kg	☆	07/25/23 10:46	07/25/23 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				07/25/23 10:46	07/25/23 20:03	1
1,4-Difluorobenzene (Surr)	80		70 - 130				07/25/23 10:46	07/25/23 20:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00789		0.00416	0.00105	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	37.3	J	51.3	15.4	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.3	15.4	mg/Kg	☆	07/27/23 11:54	07/29/23 00:22	1
Diesel Range Organics (Over C10-C28)	37.3	J	51.3	15.4	mg/Kg	☆	07/27/23 11:54	07/29/23 00:22	1
Oil Range Organics (Over C28-C36)	<15.4	U	51.3	15.4	mg/Kg	☆	07/27/23 11:54	07/29/23 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				07/27/23 11:54	07/29/23 00:22	1
o-Terphenyl	122		70 - 130				07/27/23 11:54	07/29/23 00:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2710		25.6	2.02	mg/Kg	☆		07/19/23 14:55	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-29-S-2'-20230714
Date Collected: 07/14/23 14:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-29
Matrix: Solid
Percent Solids: 98.0

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000394	U	0.00205	0.000394	mg/Kg	☼	07/25/23 10:46	07/25/23 20:24	1
Toluene	0.00314		0.00205	0.000467	mg/Kg	☼	07/25/23 10:46	07/25/23 20:24	1
Ethylbenzene	<0.000579	U	0.00205	0.000579	mg/Kg	☼	07/25/23 10:46	07/25/23 20:24	1
m-Xylene & p-Xylene	0.00125	J	0.00410	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 20:24	1
o-Xylene	0.000481	J	0.00205	0.000352	mg/Kg	☼	07/25/23 10:46	07/25/23 20:24	1
Xylenes, Total	0.00173	J	0.00410	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				07/25/23 10:46	07/25/23 20:24	1
1,4-Difluorobenzene (Surr)	61	S1-	70 - 130				07/25/23 10:46	07/25/23 20:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00487		0.00410	0.00103	mg/Kg			07/26/23 09:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	364		50.9	15.3	mg/Kg			07/31/23 15:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	50.9	15.3	mg/Kg	☼	07/27/23 11:54	07/28/23 21:53	1
Diesel Range Organics (Over C10-C28)	364		50.9	15.3	mg/Kg	☼	07/27/23 11:54	07/28/23 21:53	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.9	15.3	mg/Kg	☼	07/27/23 11:54	07/28/23 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				07/27/23 11:54	07/28/23 21:53	1
o-Terphenyl	117		70 - 130				07/27/23 11:54	07/28/23 21:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3690		25.5	2.01	mg/Kg	☼		07/19/23 15:00	5

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-30781-1	B-1-S-2'-20230714	86	97
880-30781-1 MS	B-1-S-2'-20230714	101	103
880-30781-1 MSD	B-1-S-2'-20230714	89	98
880-30781-2	B-2-S-2'-20230714	92	99
880-30781-3	B-3-S-2'-20230714	99	94
880-30781-4	B-4-S-2'-20230714	89	96
880-30781-5	B-5-S-2'-20230714	95	93
880-30781-6	B-6-S-2'-20230714	87	100
880-30781-7	B-7-S-2'-20230714	89	98
880-30781-8	B-8-S-2'-20230714	93	98
880-30781-9	B-9-S-2'-20230714	91	100
880-30781-10	B-10-S-2'-20230714	102	96
880-30781-11	B-11-S-2'-20230714	83	94
880-30781-12	B-12-S-2'-20230714	87	101
880-30781-13	B-13-S-2'-20230714	86	96
880-30781-14	B-14-S-2'-20230714	102	100
880-30781-15	B-15-S-2'-20230714	91	96
880-30781-16	B-16-S-2'-20230714	92	103
880-30781-17	B-17-S-2'-20230714	103	100
880-30781-18	B-18-S-2'-20230714	98	100
880-30781-19	B-19-S-2'-20230714	103	103
880-30781-20	B-20-S-2'-20230714	93	103
880-30781-21	B-21-S-2'-20230714	89	64 S1-
880-30781-22	B-22-S-2'-20230714	90	64 S1-
880-30781-23	B-23-S-2'-20230714	94	61 S1-
880-30781-24	B-24-S-2'-20230714	88	76
880-30781-25	B-25-S-2'-20230714	93	62 S1-
880-30781-26	B-26-S-2'-20230714	89	71
880-30781-27	B-27-S-2'-20230714	90	80
880-30781-28	B-28-S-2'-20230714	91	80
880-30781-29	B-29-S-2'-20230714	84	61 S1-
LCS 880-58396/1-A	Lab Control Sample	104	99
LCS 880-58463/1-A	Lab Control Sample	106	103
LCSD 880-58396/2-A	Lab Control Sample Dup	97	92
LCSD 880-58463/2-A	Lab Control Sample Dup	109	107
MB 880-58396/5-A	Method Blank	99	110
MB 880-58463/5-A	Method Blank	67 S1-	96
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-30781-1	B-1-S-2'-20230714	88	85
880-30781-1 MS	B-1-S-2'-20230714	79	68 S1-

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Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-30781-1 MSD	B-1-S-2'-20230714	84	74
880-30781-2	B-2-S-2'-20230714	78	77
880-30781-3	B-3-S-2'-20230714	84	83
880-30781-4	B-4-S-2'-20230714	81	78
880-30781-5	B-5-S-2'-20230714	90	98
880-30781-6	B-6-S-2'-20230714	100	104
880-30781-7	B-7-S-2'-20230714	88	86
880-30781-8	B-8-S-2'-20230714	86	84
880-30781-9	B-9-S-2'-20230714	87	84
880-30781-10	B-10-S-2'-20230714	76	79
880-30781-11	B-11-S-2'-20230714	84	94
880-30781-12	B-12-S-2'-20230714	78	84
880-30781-13	B-13-S-2'-20230714	94	98
880-30781-14	B-14-S-2'-20230714	77	81
880-30781-15	B-15-S-2'-20230714	85	87
880-30781-16	B-16-S-2'-20230714	86	89
880-30781-17	B-17-S-2'-20230714	96	99
880-30781-18	B-18-S-2'-20230714	78	83
880-30781-19	B-19-S-2'-20230714	88	93
880-30781-20	B-20-S-2'-20230714	78	76
880-30781-21	B-21-S-2'-20230714	131 S1+	115
880-30781-22	B-22-S-2'-20230714	128	116
880-30781-22 MS	B-22-S-2'-20230714	182 S1+	154 S1+
880-30781-22 MSD	B-22-S-2'-20230714	168 S1+	146 S1+
880-30781-23	B-23-S-2'-20230714	134 S1+	116
880-30781-24	B-24-S-2'-20230714	138 S1+	123
880-30781-25	B-25-S-2'-20230714	147 S1+	132 S1+
880-30781-26	B-26-S-2'-20230714	134 S1+	118
880-30781-27	B-27-S-2'-20230714	130	117
880-30781-28	B-28-S-2'-20230714	138 S1+	122
880-30781-29	B-29-S-2'-20230714	133 S1+	117
LCS 880-58651/2-A	Lab Control Sample	95	92
LCS 880-58652/2-A	Lab Control Sample	105	105
LCSD 880-58651/3-A	Lab Control Sample Dup	93	92
LCSD 880-58652/3-A	Lab Control Sample Dup	111	102
MB 880-58651/1-A	Method Blank	101	102
MB 880-58652/1-A	Method Blank	166 S1+	158 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58396/5-A

Matrix: Solid

Analysis Batch: 58418

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58396

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/24/23 16:31	07/25/23 14:53	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/24/23 16:31	07/25/23 14:53	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/24/23 16:31	07/25/23 14:53	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/24/23 16:31	07/25/23 14:53	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/24/23 16:31	07/25/23 14:53	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/24/23 16:31	07/25/23 14:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/24/23 16:31	07/25/23 14:53	1
1,4-Difluorobenzene (Surr)	110		70 - 130	07/24/23 16:31	07/25/23 14:53	1

Lab Sample ID: LCS 880-58396/1-A

Matrix: Solid

Analysis Batch: 58418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1207		mg/Kg		121	70 - 130
Toluene	0.100	0.1067		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1203		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2340		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-58396/2-A

Matrix: Solid

Analysis Batch: 58418

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58396

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1151		mg/Kg		115	70 - 130	5	35
Toluene	0.100	0.1066		mg/Kg		107	70 - 130	0	35
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 - 130	13	35
o-Xylene	0.100	0.1025		mg/Kg		103	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-30781-1 MS

Matrix: Solid

Analysis Batch: 58418

Client Sample ID: B-1-S-2'-20230714

Prep Type: Total/NA

Prep Batch: 58396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000394	U	0.103	0.1280		mg/Kg	☼	125	70 - 130
Toluene	<0.000467	U	0.103	0.1095		mg/Kg	☼	107	70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-30781-1 MS

Matrix: Solid

Analysis Batch: 58418

Client Sample ID: B-1-S-2'-20230714

Prep Type: Total/NA

Prep Batch: 58396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000579	U	0.103	0.1142		mg/Kg	☼	111	70 - 130
m-Xylene & p-Xylene	<0.00103	U	0.205	0.2308		mg/Kg	☼	112	70 - 130
o-Xylene	0.000369	J	0.103	0.1055		mg/Kg	☼	102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-30781-1 MSD

Matrix: Solid

Analysis Batch: 58418

Client Sample ID: B-1-S-2'-20230714

Prep Type: Total/NA

Prep Batch: 58396

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000394	U	0.103	0.1120		mg/Kg	☼	109	70 - 130	13	35
Toluene	<0.000467	U	0.103	0.1002		mg/Kg	☼	97	70 - 130	9	35
Ethylbenzene	<0.000579	U	0.103	0.09596		mg/Kg	☼	93	70 - 130	17	35
m-Xylene & p-Xylene	<0.00103	U	0.206	0.1824		mg/Kg	☼	89	70 - 130	23	35
o-Xylene	0.000369	J	0.103	0.08274		mg/Kg	☼	80	70 - 130	24	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-58463/5-A

Matrix: Solid

Analysis Batch: 58417

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/25/23 10:46	07/25/23 12:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	07/25/23 10:46	07/25/23 12:49	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/25/23 10:46	07/25/23 12:49	1

Lab Sample ID: LCS 880-58463/1-A

Matrix: Solid

Analysis Batch: 58417

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1170		mg/Kg		117	70 - 130
Toluene	0.100	0.09993		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1097		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2275		mg/Kg		114	70 - 130

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-58463/1-A

Matrix: Solid

Analysis Batch: 58417

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1116		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-58463/2-A

Matrix: Solid

Analysis Batch: 58417

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1189		mg/Kg		119	70 - 130	2	35
Toluene	0.100	0.1008		mg/Kg		101	70 - 130	1	35
Ethylbenzene	0.100	0.1117		mg/Kg		112	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2315		mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1139		mg/Kg		114	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-58651/1-A

Matrix: Solid

Analysis Batch: 58600

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:51	07/27/23 20:11	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:51	07/27/23 20:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:51	07/27/23 20:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	07/27/23 11:51	07/27/23 20:11	1
o-Terphenyl	102		70 - 130	07/27/23 11:51	07/27/23 20:11	1

Lab Sample ID: LCS 880-58651/2-A

Matrix: Solid

Analysis Batch: 58600

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	888.0		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	849.8		mg/Kg		85	70 - 130

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-58651/2-A
Matrix: Solid
Analysis Batch: 58600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58651

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-58651/3-A
Matrix: Solid
Analysis Batch: 58600

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58651

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	863.1		mg/Kg		86	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	857.9		mg/Kg		86	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-30781-1 MS
Matrix: Solid
Analysis Batch: 58600

Client Sample ID: B-1-S-2'-20230714
Prep Type: Total/NA
Prep Batch: 58651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<15.4	U F1	1040	719.9	F1	mg/Kg	✧	69	70 - 130
Diesel Range Organics (Over C10-C28)	19.4	J	1040	762.7		mg/Kg	✧	72	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	68	S1-	70 - 130

Lab Sample ID: 880-30781-1 MSD
Matrix: Solid
Analysis Batch: 58600

Client Sample ID: B-1-S-2'-20230714
Prep Type: Total/NA
Prep Batch: 58651

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	<15.4	U F1	1040	762.4		mg/Kg	✧	73	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	19.4	J	1040	833.6		mg/Kg	✧	78	70 - 130	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	74		70 - 130

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-58652/1-A

Matrix: Solid

Analysis Batch: 58684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:54	07/28/23 19:43	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:54	07/28/23 19:43	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:54	07/28/23 19:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130				07/27/23 11:54	07/28/23 19:43	1
o-Terphenyl	158	S1+	70 - 130				07/27/23 11:54	07/28/23 19:43	1

Lab Sample ID: LCS 880-58652/2-A

Matrix: Solid

Analysis Batch: 58684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58652

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	868.8		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	920.7		mg/Kg		92	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	105		70 - 130				
o-Terphenyl	105		70 - 130				

Lab Sample ID: LCSD 880-58652/3-A

Matrix: Solid

Analysis Batch: 58684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58652

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	929.0		mg/Kg		93	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	999.8		mg/Kg		100	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	102		70 - 130						

Lab Sample ID: 880-30781-22 MS

Matrix: Solid

Analysis Batch: 58684

Client Sample ID: B-22-S-2'-20230714

Prep Type: Total/NA

Prep Batch: 58652

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	1020	1094		mg/Kg	☼	107	70 - 130
Diesel Range Organics (Over C10-C28)	28.7	J F1	1020	1590	F1	mg/Kg	☼	153	70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-30781-22 MS

Matrix: Solid

Analysis Batch: 58684

Client Sample ID: B-22-S-2'-20230714

Prep Type: Total/NA

Prep Batch: 58652

	MS	MS	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
1-Chlorooctane	182	S1+	70 - 130
o-Terphenyl	154	S1+	70 - 130

Lab Sample ID: 880-30781-22 MSD

Matrix: Solid

Analysis Batch: 58684

Client Sample ID: B-22-S-2'-20230714

Prep Type: Total/NA

Prep Batch: 58652

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	1020	1013		mg/Kg	☼	99	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	28.7	J F1	1020	1485	F1	mg/Kg	☼	142	70 - 130	7	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	168	S1+	70 - 130								
o-Terphenyl	146	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57838/1-A

Matrix: Solid

Analysis Batch: 58048

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/19/23 12:36	1

Lab Sample ID: LCS 880-57838/2-A

Matrix: Solid

Analysis Batch: 58048

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS					%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	241.1		mg/Kg		96	90 - 110	

Lab Sample ID: LCSD 880-57838/3-A

Matrix: Solid

Analysis Batch: 58048

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCS ^D	LCS ^D				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limits
Chloride			250	240.8		mg/Kg	-	96	90 - 110	0	20

Lab Sample ID: 880-30781-21 MS

Matrix: Solid

Analysis Batch: 58048

Client Sample ID: B-21-S-2'-20230714

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	465		253	716.4		mg/Kg	☼	99	90 - 110		

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-30781-21 MSD

Matrix: Solid

Analysis Batch: 58048

Client Sample ID: B-21-S-2'-20230714

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	465		253	715.4		mg/Kg	☆	99	90 - 110	0	20

Lab Sample ID: MB 880-57837/1-A

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/19/23 23:18	1

Lab Sample ID: LCS 880-57837/2-A

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-57837/3-A

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.8		mg/Kg		103	90 - 110	7	20

Lab Sample ID: 880-30781-1 MS

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: B-1-S-2'-20230714

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	754	F1	259	978.1	F1	mg/Kg	☆	87	90 - 110

Lab Sample ID: 880-30781-1 MSD

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: B-1-S-2'-20230714

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	754	F1	259	1014		mg/Kg	☆	100	90 - 110	4	20

Lab Sample ID: 880-30781-11 MS

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: B-11-S-2'-20230714

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2090	F1	1280	3213	F1	mg/Kg	☆	88	90 - 110

Lab Sample ID: 880-30781-11 MSD

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: B-11-S-2'-20230714

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2090	F1	1280	3310		mg/Kg	☆	95	90 - 110	3	20

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 58396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	5030B	
MB 880-58396/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-58396/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-58396/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-30781-1 MS	B-1-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-1 MSD	B-1-S-2'-20230714	Total/NA	Solid	5030B	

Analysis Batch: 58417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	8021B	58463
MB 880-58463/5-A	Method Blank	Total/NA	Solid	8021B	58463
LCS 880-58463/1-A	Lab Control Sample	Total/NA	Solid	8021B	58463
LCSD 880-58463/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58463

Analysis Batch: 58418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	8021B	58396

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 58418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	8021B	58396
MB 880-58396/5-A	Method Blank	Total/NA	Solid	8021B	58396
LCS 880-58396/1-A	Lab Control Sample	Total/NA	Solid	8021B	58396
LCSD 880-58396/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58396
880-30781-1 MS	B-1-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-1 MSD	B-1-S-2'-20230714	Total/NA	Solid	8021B	58396

Prep Batch: 58463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	5030B	
MB 880-58463/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-58463/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-58463/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 58533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 58533 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 58600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	8015B NM	58651
MB 880-58651/1-A	Method Blank	Total/NA	Solid	8015B NM	58651
LCS 880-58651/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58651
LCSD 880-58651/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58651
880-30781-1 MS	B-1-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-1 MSD	B-1-S-2'-20230714	Total/NA	Solid	8015B NM	58651

Analysis Batch: 58601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	8015B NM	58651

Prep Batch: 58651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 58651 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	8015NM Prep	
MB 880-58651/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58651/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58651/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30781-1 MS	B-1-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-1 MSD	B-1-S-2'-20230714	Total/NA	Solid	8015NM Prep	

Prep Batch: 58652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	8015NM Prep	
MB 880-58652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30781-22 MS	B-22-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-22 MSD	B-22-S-2'-20230714	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	8015B NM	58652

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 58684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	8015B NM	58652
MB 880-58652/1-A	Method Blank	Total/NA	Solid	8015B NM	58652
LCS 880-58652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58652
LCSD 880-58652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58652
880-30781-22 MS	B-22-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-22 MSD	B-22-S-2'-20230714	Total/NA	Solid	8015B NM	58652

Analysis Batch: 58713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 57837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-2	B-2-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-3	B-3-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-4	B-4-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-5	B-5-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-6	B-6-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-7	B-7-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-8	B-8-S-2'-20230714	Soluble	Solid	DI Leach	

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 57837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-9	B-9-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-10	B-10-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-11	B-11-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-12	B-12-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-13	B-13-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-14	B-14-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-15	B-15-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-16	B-16-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-17	B-17-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-18	B-18-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-19	B-19-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-20	B-20-S-2'-20230714	Soluble	Solid	DI Leach	
MB 880-57837/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57837/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57837/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30781-1 MS	B-1-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-1 MSD	B-1-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-11 MS	B-11-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-11 MSD	B-11-S-2'-20230714	Soluble	Solid	DI Leach	

Leach Batch: 57838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-22	B-22-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-23	B-23-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-24	B-24-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-25	B-25-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-26	B-26-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-27	B-27-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-28	B-28-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-29	B-29-S-2'-20230714	Soluble	Solid	DI Leach	
MB 880-57838/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57838/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57838/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30781-21 MS	B-21-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-21 MSD	B-21-S-2'-20230714	Soluble	Solid	DI Leach	

Analysis Batch: 58048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-22	B-22-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-23	B-23-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-24	B-24-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-25	B-25-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-26	B-26-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-27	B-27-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-28	B-28-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-29	B-29-S-2'-20230714	Soluble	Solid	300.0	57838
MB 880-57838/1-A	Method Blank	Soluble	Solid	300.0	57838
LCS 880-57838/2-A	Lab Control Sample	Soluble	Solid	300.0	57838
LCSD 880-57838/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57838

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 58048 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21 MS	B-21-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-21 MSD	B-21-S-2'-20230714	Soluble	Solid	300.0	57838

Analysis Batch: 58060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-2	B-2-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-3	B-3-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-4	B-4-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-5	B-5-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-6	B-6-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-7	B-7-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-8	B-8-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-9	B-9-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-10	B-10-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-11	B-11-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-12	B-12-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-13	B-13-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-14	B-14-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-15	B-15-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-16	B-16-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-17	B-17-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-18	B-18-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-19	B-19-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-20	B-20-S-2'-20230714	Soluble	Solid	300.0	57837
MB 880-57837/1-A	Method Blank	Soluble	Solid	300.0	57837
LCS 880-57837/2-A	Lab Control Sample	Soluble	Solid	300.0	57837
LCSD 880-57837/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57837
880-30781-1 MS	B-1-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-1 MSD	B-1-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-11 MS	B-11-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-11 MSD	B-11-S-2'-20230714	Soluble	Solid	300.0	57837

General Chemistry

Analysis Batch: 57965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	D2216	

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

General Chemistry (Continued)

Analysis Batch: 57965 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	D2216	
MB 880-57965/1	Method Blank	Total/NA	Solid	D2216	
880-30781-1 DU	B-1-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-11 DU	B-11-S-2'-20230714	Total/NA	Solid	D2216	

Analysis Batch: 57966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	D2216	
MB 880-57966/1	Method Blank	Total/NA	Solid	D2216	
880-30781-21 DU	B-21-S-2'-20230714	Total/NA	Solid	D2216	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-1-S-2'-20230714

Lab Sample ID: 880-30781-1

Date Collected: 07/14/23 09:00

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-1-S-2'-20230714

Lab Sample ID: 880-30781-1

Date Collected: 07/14/23 09:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 15:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/27/23 21:17	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:33	CH	EET MID

Client Sample ID: B-2-S-2'-20230714

Lab Sample ID: 880-30781-2

Date Collected: 07/14/23 09:10

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-2-S-2'-20230714

Lab Sample ID: 880-30781-2

Date Collected: 07/14/23 09:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 15:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/28/23 06:51	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:48	CH	EET MID

Client Sample ID: B-3-S-2'-20230714

Lab Sample ID: 880-30781-3

Date Collected: 07/14/23 09:20

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-3-S-2'-20230714
Date Collected: 07/14/23 09:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-3
Matrix: Solid
Percent Solids: 94.5

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/27/23 22:21	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:54	CH	EET MID

Client Sample ID: B-4-S-2'-20230714
Date Collected: 07/14/23 09:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-4
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	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-4-S-2'-20230714
Date Collected: 07/14/23 09:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-4
Matrix: Solid
Percent Solids: 97.3

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 16:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/27/23 22:43	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:59	CH	EET MID

Client Sample ID: B-5-S-2'-20230714
Date Collected: 07/14/23 09:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-5-S-2'-20230714
Date Collected: 07/14/23 09:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-5
Matrix: Solid
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 16:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-5-S-2'-20230714
Date Collected: 07/14/23 09:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-5
Matrix: Solid
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 20:11	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 00:04	CH	EET MID

Client Sample ID: B-6-S-2'-20230714
Date Collected: 07/14/23 09:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-6-S-2'-20230714
Date Collected: 07/14/23 09:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-6
Matrix: Solid
Percent Solids: 97.3

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 17:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 20:55	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 00:19	CH	EET MID

Client Sample ID: B-7-S-2'-20230714
Date Collected: 07/14/23 10:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-7-S-2'-20230714
Date Collected: 07/14/23 10:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-7
Matrix: Solid
Percent Solids: 96.4

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 17:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/28/23 06:29	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-7-S-2'-20230714

Lab Sample ID: 880-30781-7

Date Collected: 07/14/23 10:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 00:24	CH	EET MID

Client Sample ID: B-8-S-2'-20230714

Lab Sample ID: 880-30781-8

Date Collected: 07/14/23 10:10

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-8-S-2'-20230714

Lab Sample ID: 880-30781-8

Date Collected: 07/14/23 10:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.3

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 17:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/27/23 23:05	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 00:29	CH	EET MID

Client Sample ID: B-9-S-2'-20230714

Lab Sample ID: 880-30781-9

Date Collected: 07/14/23 10:20

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-9-S-2'-20230714

Lab Sample ID: 880-30781-9

Date Collected: 07/14/23 10:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 18:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/27/23 23:26	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 00:35	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-10-S-2'-20230714
Date Collected: 07/14/23 10:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-10-S-2'-20230714
Date Collected: 07/14/23 10:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-10
Matrix: Solid
Percent Solids: 98.7

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 18:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 22:43	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		10			58060	07/20/23 00:40	CH	EET MID

Client Sample ID: B-11-S-2'-20230714
Date Collected: 07/14/23 10:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-11-S-2'-20230714
Date Collected: 07/14/23 10:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-11
Matrix: Solid
Percent Solids: 97.3

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 20:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/28/23 06:29	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 00:45	CH	EET MID

Client Sample ID: B-12-S-2'-20230714
Date Collected: 07/14/23 11:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-12-S-2'-20230714
Date Collected: 07/14/23 11:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-12
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 20:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 20:33	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 01:00	CH	EET MID

Client Sample ID: B-13-S-2'-20230714
Date Collected: 07/14/23 11:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-13-S-2'-20230714
Date Collected: 07/14/23 11:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-13
Matrix: Solid
Percent Solids: 98.4

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 20:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 21:17	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:05	CH	EET MID

Client Sample ID: B-14-S-2'-20230714
Date Collected: 07/14/23 11:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-14-S-2'-20230714
Date Collected: 07/14/23 11:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-14
Matrix: Solid
Percent Solids: 98.8

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 21:19	SM	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-14-S-2'-20230714
Date Collected: 07/14/23 11:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-14
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 21:38	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 01:21	CH	EET MID

Client Sample ID: B-15-S-2'-20230714
Date Collected: 07/14/23 11:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-15-S-2'-20230714
Date Collected: 07/14/23 11:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-15
Matrix: Solid
Percent Solids: 98.7

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 21:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 22:00	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 01:26	CH	EET MID

Client Sample ID: B-16-S-2'-20230714
Date Collected: 07/14/23 12:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-16-S-2'-20230714
Date Collected: 07/14/23 12:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-16
Matrix: Solid
Percent Solids: 98.6

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 22:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 22:21	AJ	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-16-S-2'-20230714

Lab Sample ID: 880-30781-16

Date Collected: 07/14/23 12:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:31	CH	EET MID

Client Sample ID: B-17-S-2'-20230714

Lab Sample ID: 880-30781-17

Date Collected: 07/14/23 12:10

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-17-S-2'-20230714

Lab Sample ID: 880-30781-17

Date Collected: 07/14/23 12:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 23:05	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:36	CH	EET MID

Client Sample ID: B-18-S-2'-20230714

Lab Sample ID: 880-30781-18

Date Collected: 07/14/23 12:20

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-18-S-2'-20230714

Lab Sample ID: 880-30781-18

Date Collected: 07/14/23 12:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.4

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 22:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 23:26	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:41	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-19-S-2'-20230714
Date Collected: 07/14/23 12:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-19-S-2'-20230714
Date Collected: 07/14/23 12:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-19
Matrix: Solid
Percent Solids: 98.1

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	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 23:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 23:47	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:46	CH	EET MID

Client Sample ID: B-20-S-2'-20230714
Date Collected: 07/14/23 12:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-20-S-2'-20230714
Date Collected: 07/14/23 12:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-20
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 23:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/27/23 23:47	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:51	CH	EET MID

Client Sample ID: B-21-S-2'-20230714
Date Collected: 07/14/23 13:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-21-S-2'-20230714
Date Collected: 07/14/23 13:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-21
Matrix: Solid
Percent Solids: 98.8

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	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 17:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 22:57	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:00	CH	EET MID

Client Sample ID: B-22-S-2'-20230714
Date Collected: 07/14/23 13:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-22-S-2'-20230714
Date Collected: 07/14/23 13:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-22
Matrix: Solid
Percent Solids: 98.4

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	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 18:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 20:48	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:15	CH	EET MID

Client Sample ID: B-23-S-2'-20230714
Date Collected: 07/14/23 13:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-23-S-2'-20230714
Date Collected: 07/14/23 13:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-23
Matrix: Solid
Percent Solids: 98.7

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	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 18:20	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-23-S-2'-20230714

Lab Sample ID: 880-30781-23

Date Collected: 07/14/23 13:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 23:40	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:20	CH	EET MID

Client Sample ID: B-24-S-2'-20230714

Lab Sample ID: 880-30781-24

Date Collected: 07/14/23 13:30

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-24-S-2'-20230714

Lab Sample ID: 880-30781-24

Date Collected: 07/14/23 13:30

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.6

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	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 18:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 00:01	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:35	CH	EET MID

Client Sample ID: B-25-S-2'-20230714

Lab Sample ID: 880-30781-25

Date Collected: 07/14/23 13:40

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-25-S-2'-20230714

Lab Sample ID: 880-30781-25

Date Collected: 07/14/23 13:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.8

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	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 19:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 22:14	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-25-S-2'-20230714**Lab Sample ID: 880-30781-25****Date Collected: 07/14/23 13:40****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.8**

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	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:40	CH	EET MID

Client Sample ID: B-26-S-2'-20230714**Lab Sample ID: 880-30781-26****Date Collected: 07/14/23 13:50****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-26-S-2'-20230714**Lab Sample ID: 880-30781-26****Date Collected: 07/14/23 13:50****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.3**

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	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 19:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 22:36	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:45	CH	EET MID

Client Sample ID: B-27-S-2'-20230714**Lab Sample ID: 880-30781-27****Date Collected: 07/14/23 14:00****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-27-S-2'-20230714**Lab Sample ID: 880-30781-27****Date Collected: 07/14/23 14:00****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 97.8**

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	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 19:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 23:18	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:50	CH	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-28-S-2'-20230714

Lab Sample ID: 880-30781-28

Date Collected: 07/14/23 14:10

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-28-S-2'-20230714

Lab Sample ID: 880-30781-28

Date Collected: 07/14/23 14:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 20:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 00:22	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:55	CH	EET MID

Client Sample ID: B-29-S-2'-20230714

Lab Sample ID: 880-30781-29

Date Collected: 07/14/23 14:20

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-29-S-2'-20230714

Lab Sample ID: 880-30781-29

Date Collected: 07/14/23 14:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.0

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	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 20:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 21:53	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 15:00	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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
D2216		Solid	Percent Solids
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5030B	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 US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30781-1	B-1-S-2'-20230714	Solid	07/14/23 09:00	07/17/23 10:26
880-30781-2	B-2-S-2'-20230714	Solid	07/14/23 09:10	07/17/23 10:26
880-30781-3	B-3-S-2'-20230714	Solid	07/14/23 09:20	07/17/23 10:26
880-30781-4	B-4-S-2'-20230714	Solid	07/14/23 09:30	07/17/23 10:26
880-30781-5	B-5-S-2'-20230714	Solid	07/14/23 09:40	07/17/23 10:26
880-30781-6	B-6-S-2'-20230714	Solid	07/14/23 09:50	07/17/23 10:26
880-30781-7	B-7-S-2'-20230714	Solid	07/14/23 10:00	07/17/23 10:26
880-30781-8	B-8-S-2'-20230714	Solid	07/14/23 10:10	07/17/23 10:26
880-30781-9	B-9-S-2'-20230714	Solid	07/14/23 10:20	07/17/23 10:26
880-30781-10	B-10-S-2'-20230714	Solid	07/14/23 10:30	07/17/23 10:26
880-30781-11	B-11-S-2'-20230714	Solid	07/14/23 10:40	07/17/23 10:26
880-30781-12	B-12-S-2'-20230714	Solid	07/14/23 11:20	07/17/23 10:26
880-30781-13	B-13-S-2'-20230714	Solid	07/14/23 11:30	07/17/23 10:26
880-30781-14	B-14-S-2'-20230714	Solid	07/14/23 11:40	07/17/23 10:26
880-30781-15	B-15-S-2'-20230714	Solid	07/14/23 11:50	07/17/23 10:26
880-30781-16	B-16-S-2'-20230714	Solid	07/14/23 12:00	07/17/23 10:26
880-30781-17	B-17-S-2'-20230714	Solid	07/14/23 12:10	07/17/23 10:26
880-30781-18	B-18-S-2'-20230714	Solid	07/14/23 12:20	07/17/23 10:26
880-30781-19	B-19-S-2'-20230714	Solid	07/14/23 12:30	07/17/23 10:26
880-30781-20	B-20-S-2'-20230714	Solid	07/14/23 12:40	07/17/23 10:26
880-30781-21	B-21-S-2'-20230714	Solid	07/14/23 13:00	07/17/23 10:26
880-30781-22	B-22-S-2'-20230714	Solid	07/14/23 13:10	07/17/23 10:26
880-30781-23	B-23-S-2'-20230714	Solid	07/14/23 13:20	07/17/23 10:26
880-30781-24	B-24-S-2'-20230714	Solid	07/14/23 13:30	07/17/23 10:26
880-30781-25	B-25-S-2'-20230714	Solid	07/14/23 13:40	07/17/23 10:26
880-30781-26	B-26-S-2'-20230714	Solid	07/14/23 13:50	07/17/23 10:26
880-30781-27	B-27-S-2'-20230714	Solid	07/14/23 14:00	07/17/23 10:26
880-30781-28	B-28-S-2'-20230714	Solid	07/14/23 14:10	07/17/23 10:26
880-30781-29	B-29-S-2'-20230714	Solid	07/14/23 14:20	07/17/23 10:26

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins

Environment Testing

30781

7/31/2023

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Released to Imaging: 5/10/2024 2:56:27 PM

Client Information		Sampler		Lab PM		Carrier Tracking No(s)		COC No:	
Client Contact: Justin Nixon		Heath Boyd		Builes John				880-5081-624 5	
Company: ARCADIS U S Inc		Phone 575-942 0292		E-Mail John Builes@et eurofinsus.com		State of Origin NM		Page 5 of 3	
Address 1004 North Big Spring Suite 300		Due Date Requested		Analysis Requested				Job #:	
City Midland		TAT Requested (days): Standard						Preservation Codes	
State Zip TX 79701		Compliance Project: ☐ Yes ☐ No						A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R - Na2S2O3 G Amchlor S H2SO4 H - Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)	
Phone 432-296-9547(Tel)		PO #						Other	
Email Justin Nixon@arcadis.com		Purchase Order Requested							
Project Name Chevron Old Indian Draw Unit 001		WO #:							
Site Edley County, NM		Project #: 88001630							
		SSOW#:							
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)	Total Number of Containers	Special Instructions/Note
				Preservation Code:					
B-1-S-Z'-20230714		7/14/23	900	C	Solid		X		
B-2-S-Z'-20230714			910		Solid		X		
B-3-S-Z'-20230714			920		Solid		X		
B-4-S-Z'-20230714			930		Solid		X		
B-5-S-Z'-20230714			940		Solid		X		
B-6-S-Z'-20230714			950		Solid		X		
B-7-S-Z'-20230714			1000		Solid		X		
B-8-S-Z'-20230714			1010		Solid		X		
B-9-S-Z'-20230714			1020		Solid		X		
B-10-S-Z'-20230714			1030		Solid		X		
B-11-S-Z'-20230714			1040		Solid		X		

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested I II III IV Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Special Instructions/QC Requirements

Empty Kit Relinquished by Date Time Method of Shipment

Relinquished by Date/Time Company

Relinquished by Date/Time Company

Relinquished by Date/Time Company

Custody Seals Intact. ☐ Yes ☐ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks



880-30781 Chain of Custody

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins

Environment Testing

30181

Client Information		Sampler <u>Heath Boyd</u>		Lab PM Builes John		Carrier Tracking No(s)		COC No 880-5081-624 6											
Client Contact: Justin Nixon		Phone <u>575-942-0292</u>		E-Mail John Builes@et.eurofinsus.com		State of Origin <u>NM</u>		Page: <u>2 of 3</u>											
Company: ARCADIS U S Inc.		PWSID		Analysis Requested															
Address: 1004 North Big Spring Suite 300		Due Date Requested		Field Filtered Sample (Yes or No) Perform MSMSD (Yes or No) 300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G															
City: Midland		TAT Requested (days) <u>Standard</u>																	
State Zip TX 79701		Compliance Project: ☐ Yes ☐ No																	
Phone 432-296-9547(Tel)		PO #																	
Email: Justin Nixon@arcadis.com		Purchase Order Requested																	
Project Name: Chevron Old Indian Draw Unit 001		Project # 88001630		Preservation Codes															
Site: <u>Eddy County, NM</u>		SSOW#:		Total Number of Containers 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)															
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 MSMSD (Yes or No)		300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G		Special Instructions/Note			
						Preservation Code													
B-12-S-2'-20230714		7/14/23		1120		C		Solid				X							
B-13-S-2'-20230714				1130				Solid				X							
B-14-S-2'-20230714				1140				Solid				X							
B-15-S-2'-20230714				1150				Solid				X							
B-16-S-2'-20230714				1200				Solid				X							
B-17-S-2'-20230714				1210				Solid				X							
B-18-S-2'-20230714				1220				Solid				X							
B-19-S-2'-20230714				1230				Solid				X							
B-20-S-2'-20230714				1240				Solid				X							
B-21-S-2'-20230714				1300				Solid				X							
B-22-S-2'-20230714				1310				Solid				X							
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological										☐ 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 <u>[Signature]</u>				Date/Time <u>7/14/23 1507</u>				Company <u>Arcadis</u>				Received by <u>[Signature]</u>							
Relinquished by <u>[Signature]</u>				Date/Time <u>7/14/23 3 10</u>				Company				Received by <u>[Signature]</u>							
Relinquished by				Date/Time				Company				Received by							
												Date/Time <u>1026</u>							
Custody Seals Intact ☐ Yes ☐ No				Custody Seal No				Cooler Temperature(s) °C and Other Remarks.											

Ver: 01/16/2019

Eurofins Midland

1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins

Environment Testing

30781

7/31/2023

Client Information		Sampler: <u>Heath Boyd</u>		Lab PM: Builes John		Carrier Tracking No(s):		COC No: 880-5081-624 8							
Client Contact: Justin Nixon		Phone: <u>575-942-0292</u>		E-Mail: John Builes@et.eurofins.com		State of Origin: <u>NM</u>		Page: <u>3 of 3</u>							
Company: ARCADIS U.S. Inc.		PWSID:		Analysis Requested											
Address: 1004 North Big Spring Suite 300		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 300_ORGFM, 28D, 8015MOD_NM, 8021B, MOISTURE_2540G											
City: Midland		TAT Requested (days): <u>Standard</u>													
State, Zip: TX 79701		Compliance Project: ☐ Yes ☐ No													
Phone: 432-296-9547 (Tel)		PO #:													
Email: Justin Nixon@arcadis.com		Purchase Order Requested:													
Project Name: Chevron Old Indian Draw Unit 001		Project #: 88001630		Total Number of containers Preservation Codes A HCL M Hexane B NaOH N - None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F - MeOH R Na2S2O3 G - Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify) Other:											
Site: <u>Eddy County, NM</u>		SSOW#:													
Sample Identification		Sample Date								Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
B-23-S-2'-20230714		7/14/23		1320		C		Solid							
B-24-S-2'-20230714				1330				Solid							
B-25-S-2'-20230714				1340				Solid							
B-26-S-2'-20230714				1350				Solid							
B-27-S-2'-20230714				1400				Solid							
B-28-S-2'-20230714				1410				Solid							
B-29-S-2'-20230714		X		1420		X		Solid							
								Solid							
								Solid							
								Solid							
								Solid							
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: <u>[Signature]</u>		Date/Time: <u>7/14/23 1507</u>		Company: <u>Arcadis</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7-14-23 307</u>							
Relinquished by: <u>[Signature]</u>		Date/Time: <u>7/14/23 310</u>		Company:		Received by: <u>[Signature]</u>		Date/Time: <u>7/17/23</u>							
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time: <u>1024</u>							
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks											

Ver: 01/16/2019

Page 64 of 65

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-30781-1
SDG Number: Eddy County, NM

Login Number: 30781

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/21/2023 10:15:44 AM

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER Eddy County, NM

JOB NUMBER

880-30781-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
7/21/2023 10:15:44 AM

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

Preliminary Data

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Laboratory Job ID: 880-30781-1
SDG: Eddy County, NM

Table of Contents

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Preliminary Data

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Job ID: 880-30781-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-30781-1****Receipt**

The samples were received on 7/17/2023 10:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-1-S-2'-20230714 (880-30781-1), B-2-S-2'-20230714 (880-30781-2), B-3-S-2'-20230714 (880-30781-3), B-4-S-2'-20230714 (880-30781-4), B-5-S-2'-20230714 (880-30781-5), B-6-S-2'-20230714 (880-30781-6), B-7-S-2'-20230714 (880-30781-7), B-8-S-2'-20230714 (880-30781-8), B-9-S-2'-20230714 (880-30781-9), B-10-S-2'-20230714 (880-30781-10), B-11-S-2'-20230714 (880-30781-11), B-12-S-2'-20230714 (880-30781-12), B-13-S-2'-20230714 (880-30781-13), B-14-S-2'-20230714 (880-30781-14), B-15-S-2'-20230714 (880-30781-15), B-16-S-2'-20230714 (880-30781-16), B-17-S-2'-20230714 (880-30781-17), B-18-S-2'-20230714 (880-30781-18), B-19-S-2'-20230714 (880-30781-19), B-20-S-2'-20230714 (880-30781-20), B-21-S-2'-20230714 (880-30781-21), B-22-S-2'-20230714 (880-30781-22), B-23-S-2'-20230714 (880-30781-23), B-24-S-2'-20230714 (880-30781-24), B-25-S-2'-20230714 (880-30781-25), B-26-S-2'-20230714 (880-30781-26), B-27-S-2'-20230714 (880-30781-27), B-28-S-2'-20230714 (880-30781-28) and B-29-S-2'-20230714 (880-30781-29).

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-57837 and 880-57837 and analytical batch 880-58060 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

General Chemistry

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-1-S-2'-20230714

Date Collected: 07/14/23 09:00

Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-1

Matrix: Solid

Percent Solids: 96.8

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	754	F1	5.17	0.409	mg/Kg	☆		07/19/23 23:33	1

Client Sample ID: B-2-S-2'-20230714

Date Collected: 07/14/23 09:10

Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-2

Matrix: Solid

Percent Solids: 96.9

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	314		5.14	0.406	mg/Kg	☆		07/19/23 23:48	1

Client Sample ID: B-3-S-2'-20230714

Date Collected: 07/14/23 09:20

Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-3

Matrix: Solid

Percent Solids: 94.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	696		5.26	0.416	mg/Kg	☆		07/19/23 23:54	1

Client Sample ID: B-4-S-2'-20230714

Date Collected: 07/14/23 09:30

Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-4

Matrix: Solid

Percent Solids: 97.3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	713		5.16	0.408	mg/Kg	☆		07/19/23 23:59	1

Client Sample ID: B-5-S-2'-20230714

Date Collected: 07/14/23 09:40

Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-5

Matrix: Solid

Percent Solids: 95.6

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	872		5.18	0.409	mg/Kg	☆		07/20/23 00:04	1

Client Sample ID: B-6-S-2'-20230714

Date Collected: 07/14/23 09:50

Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-6

Matrix: Solid

Percent Solids: 97.3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	834		5.18	0.409	mg/Kg	☆		07/20/23 00:19	1

Client Sample ID: B-7-S-2'-20230714

Date Collected: 07/14/23 10:00

Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-7

Matrix: Solid

Percent Solids: 96.4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		25.9	2.05	mg/Kg	☆		07/20/23 00:24	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-8-S-2'-20230714

Lab Sample ID: 880-30781-8

Date Collected: 07/14/23 10:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	755		5.12	0.404	mg/Kg	☆		07/20/23 00:29	1

Client Sample ID: B-9-S-2'-20230714

Lab Sample ID: 880-30781-9

Date Collected: 07/14/23 10:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.9

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3260		25.3	2.00	mg/Kg	☆		07/20/23 00:35	5

Client Sample ID: B-10-S-2'-20230714

Lab Sample ID: 880-30781-10

Date Collected: 07/14/23 10:30

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.7

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6780		50.9	4.02	mg/Kg	☆		07/20/23 00:40	10

Client Sample ID: B-11-S-2'-20230714

Lab Sample ID: 880-30781-11

Date Collected: 07/14/23 10:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090	F1	25.5	2.02	mg/Kg	☆		07/20/23 00:45	5

Client Sample ID: B-12-S-2'-20230714

Lab Sample ID: 880-30781-12

Date Collected: 07/14/23 11:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.6

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2910		25.4	2.00	mg/Kg	☆		07/20/23 01:00	5

Client Sample ID: B-13-S-2'-20230714

Lab Sample ID: 880-30781-13

Date Collected: 07/14/23 11:30

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	912		5.07	0.400	mg/Kg	☆		07/20/23 01:05	1

Client Sample ID: B-14-S-2'-20230714

Lab Sample ID: 880-30781-14

Date Collected: 07/14/23 11:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.8

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680		25.4	2.00	mg/Kg	☆		07/20/23 01:21	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-15-S-2'-20230714

Lab Sample ID: 880-30781-15

Date Collected: 07/14/23 11:50

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.7

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		25.5	2.01	mg/Kg	☆		07/20/23 01:26	5

Client Sample ID: B-16-S-2'-20230714

Lab Sample ID: 880-30781-16

Date Collected: 07/14/23 12:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.6

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	767		5.07	0.401	mg/Kg	☆		07/20/23 01:31	1

Client Sample ID: B-17-S-2'-20230714

Lab Sample ID: 880-30781-17

Date Collected: 07/14/23 12:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.6

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	412		5.08	0.402	mg/Kg	☆		07/20/23 01:36	1

Client Sample ID: B-18-S-2'-20230714

Lab Sample ID: 880-30781-18

Date Collected: 07/14/23 12:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	533		5.07	0.400	mg/Kg	☆		07/20/23 01:41	1

Client Sample ID: B-19-S-2'-20230714

Lab Sample ID: 880-30781-19

Date Collected: 07/14/23 12:30

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.0		5.09	0.402	mg/Kg	☆		07/20/23 01:46	1

Client Sample ID: B-20-S-2'-20230714

Lab Sample ID: 880-30781-20

Date Collected: 07/14/23 12:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		5.06	0.400	mg/Kg	☆		07/20/23 01:51	1

Client Sample ID: B-21-S-2'-20230714

Lab Sample ID: 880-30781-21

Date Collected: 07/14/23 13:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.8

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	465		5.06	0.400	mg/Kg	☆		07/19/23 14:00	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-22-S-2'-20230714

Lab Sample ID: 880-30781-22

Date Collected: 07/14/23 13:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		5.04	0.398	mg/Kg	☆		07/19/23 14:15	1

Client Sample ID: B-23-S-2'-20230714

Lab Sample ID: 880-30781-23

Date Collected: 07/14/23 13:20

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.7

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	571		5.05	0.399	mg/Kg	☆		07/19/23 14:20	1

Client Sample ID: B-24-S-2'-20230714

Lab Sample ID: 880-30781-24

Date Collected: 07/14/23 13:30

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.6

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100		25.5	2.01	mg/Kg	☆		07/19/23 14:35	5

Client Sample ID: B-25-S-2'-20230714

Lab Sample ID: 880-30781-25

Date Collected: 07/14/23 13:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.8

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		25.6	2.02	mg/Kg	☆		07/19/23 14:40	5

Client Sample ID: B-26-S-2'-20230714

Lab Sample ID: 880-30781-26

Date Collected: 07/14/23 13:50

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	415		5.06	0.400	mg/Kg	☆		07/19/23 14:45	1

Client Sample ID: B-27-S-2'-20230714

Lab Sample ID: 880-30781-27

Date Collected: 07/14/23 14:00

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.8

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3700		25.8	2.04	mg/Kg	☆		07/19/23 14:50	5

Client Sample ID: B-28-S-2'-20230714

Lab Sample ID: 880-30781-28

Date Collected: 07/14/23 14:10

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 97.1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2710		25.6	2.02	mg/Kg	☆		07/19/23 14:55	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-29-S-2'-20230714
Date Collected: 07/14/23 14:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-29
Matrix: Solid
Percent Solids: 98.0

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3690		25.5	2.01	mg/Kg	☼		07/19/23 15:00	5

Preliminary Data

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- 2
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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57838/1-A

Matrix: Solid

Analysis Batch: 58048

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/19/23 12:36	1

Lab Sample ID: LCS 880-57838/2-A

Matrix: Solid

Analysis Batch: 58048

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.1		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-57838/3-A

Matrix: Solid

Analysis Batch: 58048

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	240.8		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-30781-21 MS

Matrix: Solid

Analysis Batch: 58048

Client Sample ID: B-21-S-2'-20230714

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	465		253	716.4		mg/Kg	✱	99	90 - 110

Lab Sample ID: 880-30781-21 MSD

Matrix: Solid

Analysis Batch: 58048

Client Sample ID: B-21-S-2'-20230714

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	465		253	715.4		mg/Kg	✱	99	90 - 110	0	20

Lab Sample ID: MB 880-57837/1-A

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/19/23 23:18	1

Lab Sample ID: LCS 880-57837/2-A

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-57837/3-A

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.8		mg/Kg		103	90 - 110	7	20

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-30781-1 MS

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: B-1-S-2'-20230714

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	754	F1	259	978.1	F1	mg/Kg	✱	87	90 - 110		

Lab Sample ID: 880-30781-1 MSD

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: B-1-S-2'-20230714

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	754	F1	259	1014		mg/Kg	✱	100	90 - 110	4	20

Lab Sample ID: 880-30781-11 MS

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: B-11-S-2'-20230714

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2090	F1	1280	3213	F1	mg/Kg	✱	88	90 - 110		

Lab Sample ID: 880-30781-11 MSD

Matrix: Solid

Analysis Batch: 58060

Client Sample ID: B-11-S-2'-20230714

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2090	F1	1280	3310		mg/Kg	✱	95	90 - 110	3	20

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

HPLC/IC

Leach Batch: 57837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-2	B-2-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-3	B-3-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-4	B-4-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-5	B-5-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-6	B-6-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-7	B-7-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-8	B-8-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-9	B-9-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-10	B-10-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-11	B-11-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-12	B-12-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-13	B-13-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-14	B-14-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-15	B-15-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-16	B-16-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-17	B-17-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-18	B-18-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-19	B-19-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-20	B-20-S-2'-20230714	Soluble	Solid	DI Leach	
MB 880-57837/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57837/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57837/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30781-1 MS	B-1-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-1 MSD	B-1-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-11 MS	B-11-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-11 MSD	B-11-S-2'-20230714	Soluble	Solid	DI Leach	

Leach Batch: 57838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-22	B-22-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-23	B-23-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-24	B-24-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-25	B-25-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-26	B-26-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-27	B-27-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-28	B-28-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-29	B-29-S-2'-20230714	Soluble	Solid	DI Leach	
MB 880-57838/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57838/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57838/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30781-21 MS	B-21-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-21 MSD	B-21-S-2'-20230714	Soluble	Solid	DI Leach	

Analysis Batch: 58048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-22	B-22-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-23	B-23-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-24	B-24-S-2'-20230714	Soluble	Solid	300.0	57838

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 58048 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-25	B-25-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-26	B-26-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-27	B-27-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-28	B-28-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-29	B-29-S-2'-20230714	Soluble	Solid	300.0	57838
MB 880-57838/1-A	Method Blank	Soluble	Solid	300.0	57838
LCS 880-57838/2-A	Lab Control Sample	Soluble	Solid	300.0	57838
LCSD 880-57838/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57838
880-30781-21 MS	B-21-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-21 MSD	B-21-S-2'-20230714	Soluble	Solid	300.0	57838

Analysis Batch: 58060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-2	B-2-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-3	B-3-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-4	B-4-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-5	B-5-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-6	B-6-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-7	B-7-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-8	B-8-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-9	B-9-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-10	B-10-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-11	B-11-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-12	B-12-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-13	B-13-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-14	B-14-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-15	B-15-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-16	B-16-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-17	B-17-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-18	B-18-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-19	B-19-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-20	B-20-S-2'-20230714	Soluble	Solid	300.0	57837
MB 880-57837/1-A	Method Blank	Soluble	Solid	300.0	57837
LCS 880-57837/2-A	Lab Control Sample	Soluble	Solid	300.0	57837
LCSD 880-57837/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57837
880-30781-1 MS	B-1-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-1 MSD	B-1-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-11 MS	B-11-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-11 MSD	B-11-S-2'-20230714	Soluble	Solid	300.0	57837

General Chemistry

Analysis Batch: 57965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	D2216	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

General Chemistry (Continued)

Analysis Batch: 57965 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	D2216	
MB 880-57965/1	Method Blank	Total/NA	Solid	D2216	
880-30781-1 DU	B-1-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-11 DU	B-11-S-2'-20230714	Total/NA	Solid	D2216	

Analysis Batch: 57966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	D2216	
MB 880-57966/1	Method Blank	Total/NA	Solid	D2216	
880-30781-21 DU	B-21-S-2'-20230714	Total/NA	Solid	D2216	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-1-S-2'-20230714**Lab Sample ID: 880-30781-1****Date Collected: 07/14/23 09:00****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-1-S-2'-20230714**Lab Sample ID: 880-30781-1****Date Collected: 07/14/23 09:00****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 96.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:33	CH	EET MID

Client Sample ID: B-2-S-2'-20230714**Lab Sample ID: 880-30781-2****Date Collected: 07/14/23 09:10****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-2-S-2'-20230714**Lab Sample ID: 880-30781-2****Date Collected: 07/14/23 09:10****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 96.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:48	CH	EET MID

Client Sample ID: B-3-S-2'-20230714**Lab Sample ID: 880-30781-3****Date Collected: 07/14/23 09:20****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-3-S-2'-20230714**Lab Sample ID: 880-30781-3****Date Collected: 07/14/23 09:20****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 94.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:54	CH	EET MID

Client Sample ID: B-4-S-2'-20230714**Lab Sample ID: 880-30781-4****Date Collected: 07/14/23 09:30****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-4-S-2'-20230714**Lab Sample ID: 880-30781-4****Date Collected: 07/14/23 09:30****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 97.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:59	CH	EET MID

Client Sample ID: B-5-S-2'-20230714**Lab Sample ID: 880-30781-5****Date Collected: 07/14/23 09:40****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-5-S-2'-20230714**Lab Sample ID: 880-30781-5****Date Collected: 07/14/23 09:40****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 95.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 00:04	CH	EET MID

Client Sample ID: B-6-S-2'-20230714**Lab Sample ID: 880-30781-6****Date Collected: 07/14/23 09:50****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-6-S-2'-20230714**Lab Sample ID: 880-30781-6****Date Collected: 07/14/23 09:50****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 97.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 00:19	CH	EET MID

Client Sample ID: B-7-S-2'-20230714**Lab Sample ID: 880-30781-7****Date Collected: 07/14/23 10:00****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-7-S-2'-20230714**Lab Sample ID: 880-30781-7****Date Collected: 07/14/23 10:00****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 96.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 00:24	CH	EET MID

Client Sample ID: B-8-S-2'-20230714**Lab Sample ID: 880-30781-8****Date Collected: 07/14/23 10:10****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-8-S-2'-20230714**Lab Sample ID: 880-30781-8****Date Collected: 07/14/23 10:10****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 97.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 00:29	CH	EET MID

Client Sample ID: B-9-S-2'-20230714**Lab Sample ID: 880-30781-9****Date Collected: 07/14/23 10:20****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-9-S-2'-20230714**Lab Sample ID: 880-30781-9****Date Collected: 07/14/23 10:20****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 97.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 00:35	CH	EET MID

Client Sample ID: B-10-S-2'-20230714**Lab Sample ID: 880-30781-10****Date Collected: 07/14/23 10:30****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-10-S-2'-20230714**Lab Sample ID: 880-30781-10****Date Collected: 07/14/23 10:30****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		10			58060	07/20/23 00:40	CH	EET MID

Client Sample ID: B-11-S-2'-20230714**Lab Sample ID: 880-30781-11****Date Collected: 07/14/23 10:40****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-11-S-2'-20230714**Lab Sample ID: 880-30781-11****Date Collected: 07/14/23 10:40****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 97.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 00:45	CH	EET MID

Client Sample ID: B-12-S-2'-20230714**Lab Sample ID: 880-30781-12****Date Collected: 07/14/23 11:20****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-12-S-2'-20230714**Lab Sample ID: 880-30781-12****Date Collected: 07/14/23 11:20****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 01:00	CH	EET MID

Client Sample ID: B-13-S-2'-20230714**Lab Sample ID: 880-30781-13****Date Collected: 07/14/23 11:30****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-13-S-2'-20230714

Lab Sample ID: 880-30781-13

Date Collected: 07/14/23 11:30

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:05	CH	EET MID

Client Sample ID: B-14-S-2'-20230714

Lab Sample ID: 880-30781-14

Date Collected: 07/14/23 11:40

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-14-S-2'-20230714

Lab Sample ID: 880-30781-14

Date Collected: 07/14/23 11:40

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 01:21	CH	EET MID

Client Sample ID: B-15-S-2'-20230714

Lab Sample ID: 880-30781-15

Date Collected: 07/14/23 11:50

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-15-S-2'-20230714

Lab Sample ID: 880-30781-15

Date Collected: 07/14/23 11:50

Matrix: Solid

Date Received: 07/17/23 10:26

Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 01:26	CH	EET MID

Client Sample ID: B-16-S-2'-20230714

Lab Sample ID: 880-30781-16

Date Collected: 07/14/23 12:00

Matrix: Solid

Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-16-S-2'-20230714**Lab Sample ID: 880-30781-16****Date Collected: 07/14/23 12:00****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:31	CH	EET MID

Client Sample ID: B-17-S-2'-20230714**Lab Sample ID: 880-30781-17****Date Collected: 07/14/23 12:10****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-17-S-2'-20230714**Lab Sample ID: 880-30781-17****Date Collected: 07/14/23 12:10****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:36	CH	EET MID

Client Sample ID: B-18-S-2'-20230714**Lab Sample ID: 880-30781-18****Date Collected: 07/14/23 12:20****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-18-S-2'-20230714**Lab Sample ID: 880-30781-18****Date Collected: 07/14/23 12:20****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:41	CH	EET MID

Client Sample ID: B-19-S-2'-20230714**Lab Sample ID: 880-30781-19****Date Collected: 07/14/23 12:30****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-19-S-2'-20230714**Lab Sample ID: 880-30781-19****Date Collected: 07/14/23 12:30****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:46	CH	EET MID

Client Sample ID: B-20-S-2'-20230714**Lab Sample ID: 880-30781-20****Date Collected: 07/14/23 12:40****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-20-S-2'-20230714**Lab Sample ID: 880-30781-20****Date Collected: 07/14/23 12:40****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:51	CH	EET MID

Client Sample ID: B-21-S-2'-20230714**Lab Sample ID: 880-30781-21****Date Collected: 07/14/23 13:00****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-21-S-2'-20230714**Lab Sample ID: 880-30781-21****Date Collected: 07/14/23 13:00****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:00	CH	EET MID

Client Sample ID: B-22-S-2'-20230714**Lab Sample ID: 880-30781-22****Date Collected: 07/14/23 13:10****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-22-S-2'-20230714**Lab Sample ID: 880-30781-22****Date Collected: 07/14/23 13:10****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:15	CH	EET MID

Client Sample ID: B-23-S-2'-20230714**Lab Sample ID: 880-30781-23****Date Collected: 07/14/23 13:20****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-23-S-2'-20230714**Lab Sample ID: 880-30781-23****Date Collected: 07/14/23 13:20****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:20	CH	EET MID

Client Sample ID: B-24-S-2'-20230714**Lab Sample ID: 880-30781-24****Date Collected: 07/14/23 13:30****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-24-S-2'-20230714**Lab Sample ID: 880-30781-24****Date Collected: 07/14/23 13:30****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:35	CH	EET MID

Client Sample ID: B-25-S-2'-20230714**Lab Sample ID: 880-30781-25****Date Collected: 07/14/23 13:40****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-25-S-2'-20230714**Lab Sample ID: 880-30781-25****Date Collected: 07/14/23 13:40****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.8**

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	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:40	CH	EET MID

Client Sample ID: B-26-S-2'-20230714**Lab Sample ID: 880-30781-26****Date Collected: 07/14/23 13:50****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-26-S-2'-20230714**Lab Sample ID: 880-30781-26****Date Collected: 07/14/23 13:50****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:45	CH	EET MID

Client Sample ID: B-27-S-2'-20230714**Lab Sample ID: 880-30781-27****Date Collected: 07/14/23 14:00****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-27-S-2'-20230714**Lab Sample ID: 880-30781-27****Date Collected: 07/14/23 14:00****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 97.8**

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	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:50	CH	EET MID

Client Sample ID: B-28-S-2'-20230714**Lab Sample ID: 880-30781-28****Date Collected: 07/14/23 14:10****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-28-S-2'-20230714**Lab Sample ID: 880-30781-28****Date Collected: 07/14/23 14:10****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 97.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:55	CH	EET MID

Client Sample ID: B-29-S-2'-20230714**Lab Sample ID: 880-30781-29****Date Collected: 07/14/23 14:20****Matrix: Solid****Date Received: 07/17/23 10:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-29-S-2'-20230714**Lab Sample ID: 880-30781-29****Date Collected: 07/14/23 14:20****Matrix: Solid****Date Received: 07/17/23 10:26****Percent Solids: 98.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 15:00	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 US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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
D2216		Solid	Percent Solids

Preliminary Data

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Preliminary Data

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Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30781-1	B-1-S-2'-20230714	Solid	07/14/23 09:00	07/17/23 10:26
880-30781-2	B-2-S-2'-20230714	Solid	07/14/23 09:10	07/17/23 10:26
880-30781-3	B-3-S-2'-20230714	Solid	07/14/23 09:20	07/17/23 10:26
880-30781-4	B-4-S-2'-20230714	Solid	07/14/23 09:30	07/17/23 10:26
880-30781-5	B-5-S-2'-20230714	Solid	07/14/23 09:40	07/17/23 10:26
880-30781-6	B-6-S-2'-20230714	Solid	07/14/23 09:50	07/17/23 10:26
880-30781-7	B-7-S-2'-20230714	Solid	07/14/23 10:00	07/17/23 10:26
880-30781-8	B-8-S-2'-20230714	Solid	07/14/23 10:10	07/17/23 10:26
880-30781-9	B-9-S-2'-20230714	Solid	07/14/23 10:20	07/17/23 10:26
880-30781-10	B-10-S-2'-20230714	Solid	07/14/23 10:30	07/17/23 10:26
880-30781-11	B-11-S-2'-20230714	Solid	07/14/23 10:40	07/17/23 10:26
880-30781-12	B-12-S-2'-20230714	Solid	07/14/23 11:20	07/17/23 10:26
880-30781-13	B-13-S-2'-20230714	Solid	07/14/23 11:30	07/17/23 10:26
880-30781-14	B-14-S-2'-20230714	Solid	07/14/23 11:40	07/17/23 10:26
880-30781-15	B-15-S-2'-20230714	Solid	07/14/23 11:50	07/17/23 10:26
880-30781-16	B-16-S-2'-20230714	Solid	07/14/23 12:00	07/17/23 10:26
880-30781-17	B-17-S-2'-20230714	Solid	07/14/23 12:10	07/17/23 10:26
880-30781-18	B-18-S-2'-20230714	Solid	07/14/23 12:20	07/17/23 10:26
880-30781-19	B-19-S-2'-20230714	Solid	07/14/23 12:30	07/17/23 10:26
880-30781-20	B-20-S-2'-20230714	Solid	07/14/23 12:40	07/17/23 10:26
880-30781-21	B-21-S-2'-20230714	Solid	07/14/23 13:00	07/17/23 10:26
880-30781-22	B-22-S-2'-20230714	Solid	07/14/23 13:10	07/17/23 10:26
880-30781-23	B-23-S-2'-20230714	Solid	07/14/23 13:20	07/17/23 10:26
880-30781-24	B-24-S-2'-20230714	Solid	07/14/23 13:30	07/17/23 10:26
880-30781-25	B-25-S-2'-20230714	Solid	07/14/23 13:40	07/17/23 10:26
880-30781-26	B-26-S-2'-20230714	Solid	07/14/23 13:50	07/17/23 10:26
880-30781-27	B-27-S-2'-20230714	Solid	07/14/23 14:00	07/17/23 10:26
880-30781-28	B-28-S-2'-20230714	Solid	07/14/23 14:10	07/17/23 10:26
880-30781-29	B-29-S-2'-20230714	Solid	07/14/23 14:20	07/17/23 10:26

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins

Environment Testing

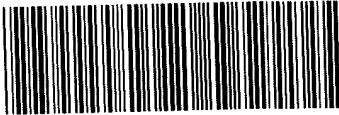
30781

7/21/2023

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Released to Imaging: 5/10/2024 2:56:27 PM

Client Information		Sampler		Lab PM		Carrier Tracking No(s)		COC No:	
Client Contact: Justin Nixon		Heath Boyd		Builes John				880-5081-624 5	
Company: ARCADIS U S Inc		Phone 575-942 0292		E-Mail John Builes@et eurofinsus.com		State of Origin NM		Page 5 of 102 1 of 3	
Address 1004 North Big Spring Suite 300		Due Date Requested		Analysis Requested				Job #:	
City Midland		TAT Requested (days): Standard						Preservation Codes	
State Zip TX 79701		Compliance Project: ☐ Yes ☐ No						A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R - Na2S2O3 G Amchlor S H2SO4 H - Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)	
Phone 432-296-9547(Tel)		PO #						Other	
Email Justin Nixon@arcadis.com		Purchase Order Requested							
Project Name Chevron Old Indian Draw Unit 001		WO #:							
Site Edley County, NM		Project #: 88001630							
		SSOW#:							
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)	Total Number of Containers	Special Instructions/Note
				Preservation Code:					
B-1-S-Z'-20230714		7/14/23	900	C	Solid		X		
B-2-S-Z'-20230714			910		Solid		X		
B-3-S-Z'-20230714			920		Solid		X		
B-4-S-Z'-20230714			930		Solid		X		
B-5-S-Z'-20230714			940		Solid		X		
B-6-S-Z'-20230714			950		Solid		X		
B-7-S-Z'-20230714			1000		Solid		X		
B-8-S-Z'-20230714			1010		Solid		X		
B-9-S-Z'-20230714			1020		Solid		X		
B-10-S-Z'-20230714			1030		Solid		X		
B-11-S-Z'-20230714			1040		Solid		X		


880-30781 Chain of Custody

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Non-Hazard	☐ Flammable	☐ Return To Client	☐ Disposal By Lab
☐ Skin Irritant	☐ Poison B	☐ Archive For	Months
☐ Unknown	☐ Radiological		
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements	
Empty Kit Relinquished by		Method of Shipment	
Relinquished by	Date/Time	Received by	Date/Time
Relinquished by	Date/Time	Received by	Date/Time
Relinquished by	Date/Time	Received by	Date/Time
Custody Seals Intact. ☐ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks	

Eurofins Midland

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Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins

Environment Testing

30181

Client Information		Sampler <u>Heath Boyd</u>		Lab PM <u>Builes John</u>		Carrier Tracking No(s)		COC No <u>880-5081-624 6</u>	
Client Contact: <u>Justin Nixon</u>		Phone <u>575-942-0292</u>		E-Mail <u>John Builes@et.eurofinsus.com</u>		State of Origin <u>NM</u>		Page: <u>2 of 3</u>	
Company: <u>ARCADIS U S Inc.</u>		PWSID		Analysis Requested					
Address: <u>1004 North Big Spring Suite 300</u>		Due Date Requested		Field Filtered Sample (Yes or No) Perform MSMSD (Yes or No) 300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G					
City: <u>Midland</u>		TAT Requested (days) <u>Standard</u>							
State Zip: <u>TX 79701</u>		Compliance Project: ☐ Yes ☐ No							
Phone: <u>432-296-9547(Tel)</u>		PO #							
Email: <u>Justin Nixon@arcadis.com</u>		Purchase Order Requested							
Project Name: <u>Chevron Old Indian Draw Unit 001</u>		Project #: <u>88001630</u>		Total Number of Containers					
Site: <u>Eddy County, NM</u>		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code.			
<u>B-12-S-2'-20230714</u>		<u>7/14/23</u>	<u>1120</u>	<u>C</u>	<u>Solid</u>	<u>X</u>			
<u>B-13-S-2'-20230714</u>			<u>1130</u>		<u>Solid</u>	<u>X</u>			
<u>B-14-S-2'-20230714</u>			<u>1140</u>		<u>Solid</u>	<u>X</u>			
<u>B-15-S-2'-20230714</u>			<u>1150</u>		<u>Solid</u>	<u>X</u>			
<u>B-16-S-2'-20230714</u>			<u>1200</u>		<u>Solid</u>	<u>X</u>			
<u>B-17-S-2'-20230714</u>			<u>1210</u>		<u>Solid</u>	<u>X</u>			
<u>B-18-S-2'-20230714</u>			<u>1220</u>		<u>Solid</u>	<u>X</u>			
<u>B-19-S-2'-20230714</u>			<u>1230</u>		<u>Solid</u>	<u>X</u>			
<u>B-20-S-2'-20230714</u>			<u>1240</u>		<u>Solid</u>	<u>X</u>			
<u>B-21-S-2'-20230714</u>			<u>1300</u>		<u>Solid</u>	<u>X</u>			
<u>B-22-S-2'-20230714</u>			<u>1310</u>		<u>Solid</u>	<u>X</u>			
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: <u>[Signature]</u>		Date/Time: <u>7/14/23 1507</u>		Company: <u>Arcadis</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7/14/23 307</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>7/14/23 310</u>		Company:		Received by: <u>[Signature]</u>		Date/Time: <u>7/17/23</u>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time: <u>1026</u>	
Custody Seals Intact ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks.					

Ver: 01/16/2019

Eurofins Midland

1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

30781  eurofins

Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-30781-1
SDG Number: Eddy County, NM

Login Number: 30781

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with Immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/31/2023 2:29:30 PM

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER Eddy County, NM

JOB NUMBER

880-30947-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
7/31/2023 2:29:30 PM

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

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Laboratory Job ID: 880-30947-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⬤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	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 US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Job ID: 880-30947-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-30947-1

Receipt

The samples were received on 7/19/2023 11:55 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 0.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-74-S-2'-20230717 (880-30947-1) and B-75-S-2'-20230717 (880-30947-2).

GC VOA

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

GC Semi VOA

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.

General Chemistry

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

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Client Sample ID: B-74-S-2'-20230717

Lab Sample ID: 880-30947-1

Date Collected: 07/17/23 16:20

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000396	U	0.00206	0.000396	mg/Kg	✧	07/28/23 09:41	07/28/23 12:41	1
Toluene	<0.000470	U	0.00206	0.000470	mg/Kg	✧	07/28/23 09:41	07/28/23 12:41	1
Ethylbenzene	<0.000582	U	0.00206	0.000582	mg/Kg	✧	07/28/23 09:41	07/28/23 12:41	1
m-Xylene & p-Xylene	<0.00104	U	0.00412	0.00104	mg/Kg	✧	07/28/23 09:41	07/28/23 12:41	1
o-Xylene	<0.000354	U	0.00206	0.000354	mg/Kg	✧	07/28/23 09:41	07/28/23 12:41	1
Xylenes, Total	<0.00104	U	0.00412	0.00104	mg/Kg	✧	07/28/23 09:41	07/28/23 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	07/28/23 09:41	07/28/23 12:41	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/28/23 09:41	07/28/23 12:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00412	0.00104	mg/Kg			07/31/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.5		50.7	15.2	mg/Kg			07/31/23 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	<15.2	U	50.7	15.2	mg/Kg	✧	07/27/23 10:27	07/28/23 18:47	1
Diesel Range Organics (Over C10-C28)	63.5		50.7	15.2	mg/Kg	✧	07/27/23 10:27	07/28/23 18:47	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.7	15.2	mg/Kg	✧	07/27/23 10:27	07/28/23 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	07/27/23 10:27	07/28/23 18:47	1
o-Terphenyl	85		70 - 130	07/27/23 10:27	07/28/23 18:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	989		5.05	0.399	mg/Kg			07/21/23 21:46	1

Client Sample ID: B-75-S-2'-20230717

Lab Sample ID: 880-30947-2

Date Collected: 07/17/23 16:30

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	✧	07/28/23 09:41	07/28/23 13:02	1
Toluene	<0.000466	U	0.00204	0.000466	mg/Kg	✧	07/28/23 09:41	07/28/23 13:02	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	✧	07/28/23 09:41	07/28/23 13:02	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	✧	07/28/23 09:41	07/28/23 13:02	1
o-Xylene	<0.000351	U	0.00204	0.000351	mg/Kg	✧	07/28/23 09:41	07/28/23 13:02	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	✧	07/28/23 09:41	07/28/23 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/28/23 09:41	07/28/23 13:02	1
1,4-Difluorobenzene (Surr)	109		70 - 130	07/28/23 09:41	07/28/23 13:02	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Client Sample ID: B-75-S-2'-20230717

Lab Sample ID: 880-30947-2

Date Collected: 07/17/23 16:30

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00409	0.00103	mg/Kg			07/31/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.4		50.7	15.2	mg/Kg			07/31/23 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	<15.2	U	50.7	15.2	mg/Kg	✧	07/27/23 10:26	07/28/23 19:09	1
Diesel Range Organics (Over C10-C28)	52.4		50.7	15.2	mg/Kg	✧	07/27/23 10:26	07/28/23 19:09	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.7	15.2	mg/Kg	✧	07/27/23 10:26	07/28/23 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				07/27/23 10:26	07/28/23 19:09	1
o-Terphenyl	85		70 - 130				07/27/23 10:26	07/28/23 19:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2140		24.8	1.96	mg/Kg			07/21/23 21:52	5

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-30947-1	B-74-S-2'-20230717	106	108
880-30947-2	B-75-S-2'-20230717	110	109
LCS 880-58702/1-A	Lab Control Sample	119	98
LCSD 880-58702/2-A	Lab Control Sample Dup	120	98
MB 880-58702/5-A	Method Blank	98	90
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-30947-1	B-74-S-2'-20230717	76	85
880-30947-2	B-75-S-2'-20230717	75	85
LCS 880-58649/2-A	Lab Control Sample	93	96
LCSD 880-58649/3-A	Lab Control Sample Dup	93	94
MB 880-58649/1-A	Method Blank	85	100
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58702/5-A

Matrix: Solid

Analysis Batch: 58692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/28/23 09:41	07/28/23 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/28/23 09:41	07/28/23 11:38	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/28/23 09:41	07/28/23 11:38	1

Lab Sample ID: LCS 880-58702/1-A

Matrix: Solid

Analysis Batch: 58692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09809		mg/Kg		98	70 - 130
Toluene	0.100	0.1115		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2123		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1058		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-58702/2-A

Matrix: Solid

Analysis Batch: 58692

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58702

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1041		mg/Kg		104	70 - 130	6	35
Toluene	0.100	0.1167		mg/Kg		117	70 - 130	5	35
Ethylbenzene	0.100	0.1097		mg/Kg		110	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2134		mg/Kg		107	70 - 130	1	35
o-Xylene	0.100	0.1067		mg/Kg		107	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-58649/1-A

Matrix: Solid

Analysis Batch: 58688

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/27/23 10:26	07/28/23 08:17	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 10:26	07/28/23 08:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 10:26	07/28/23 08:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/27/23 10:26	07/28/23 08:17	1
o-Terphenyl	100		70 - 130				07/27/23 10:26	07/28/23 08:17	1

Lab Sample ID: LCS 880-58649/2-A

Matrix: Solid

Analysis Batch: 58688

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	705.1		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)	1000	987.8		mg/Kg		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	93		70 - 130				
o-Terphenyl	96		70 - 130				

Lab Sample ID: LCSD 880-58649/3-A

Matrix: Solid

Analysis Batch: 58688

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58649

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	719.8		mg/Kg		72	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	961.6		mg/Kg		96	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	94		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58052/1-A

Matrix: Solid

Analysis Batch: 58251

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/21/23 19:18	1

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-58052/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 58251									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	235.4		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-58052/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 58251									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	234.8		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 58692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	8021B	58702
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	8021B	58702
MB 880-58702/5-A	Method Blank	Total/NA	Solid	8021B	58702
LCS 880-58702/1-A	Lab Control Sample	Total/NA	Solid	8021B	58702
LCSD 880-58702/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58702

Prep Batch: 58702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	5030B	
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	5030B	
MB 880-58702/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-58702/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-58702/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 58819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	8015NM Prep	
MB 880-58649/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58649/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	8015B NM	58649
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	8015B NM	58649
MB 880-58649/1-A	Method Blank	Total/NA	Solid	8015B NM	58649
LCS 880-58649/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58649
LCSD 880-58649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58649

Analysis Batch: 58894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Soluble	Solid	DI Leach	
880-30947-2	B-75-S-2'-20230717	Soluble	Solid	DI Leach	
MB 880-58052/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58052/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58052/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

HPLC/IC

Analysis Batch: 58251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Soluble	Solid	300.0	58052
880-30947-2	B-75-S-2'-20230717	Soluble	Solid	300.0	58052
MB 880-58052/1-A	Method Blank	Soluble	Solid	300.0	58052
LCS 880-58052/2-A	Lab Control Sample	Soluble	Solid	300.0	58052
LCSD 880-58052/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58052

General Chemistry

Analysis Batch: 58227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	D2216	
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	D2216	
MB 880-58227/1	Method Blank	Total/NA	Solid	D2216	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Client Sample ID: B-74-S-2'-20230717

Lab Sample ID: 880-30947-1

Date Collected: 07/17/23 16:20

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58819	07/31/23 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58894	07/31/23 15:10	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58052	07/20/23 16:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58251	07/21/23 21:46	CH	EET MID
Total/NA	Analysis	D2216		1			58227	07/21/23 10:12	KS	EET MID

Client Sample ID: B-74-S-2'-20230717

Lab Sample ID: 880-30947-1

Date Collected: 07/17/23 16:20

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 97.7

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	58702	07/28/23 09:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58692	07/28/23 12:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58649	07/27/23 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 18:47	AJ	EET MID

Client Sample ID: B-75-S-2'-20230717

Lab Sample ID: 880-30947-2

Date Collected: 07/17/23 16:30

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58819	07/31/23 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58894	07/31/23 15:10	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58052	07/20/23 16:00	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	58251	07/21/23 21:52	CH	EET MID
Total/NA	Analysis	D2216		1			58227	07/21/23 10:12	KS	EET MID

Client Sample ID: B-75-S-2'-20230717

Lab Sample ID: 880-30947-2

Date Collected: 07/17/23 16:30

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.1

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	58702	07/28/23 09:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58692	07/28/23 13:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 19:09	AJ	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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
D2216		Solid	Percent Solids
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5030B	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 US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30947-1	B-74-S-2'-20230717	Solid	07/17/23 16:20	07/19/23 11:55
880-30947-2	B-75-S-2'-20230717	Solid	07/17/23 16:30	07/19/23 11:55

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

30947 | eurofins Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-30947-1
SDG Number: Eddy County, NM

Login Number: 30947

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701
Generated 8/3/2023 10:19:48 AM

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER Eddy County, NM

JOB NUMBER

880-30948-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
8/3/2023 10:19:48 AM

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

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Laboratory Job ID: 880-30948-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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- 13
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Case Narrative

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Job ID: 880-30948-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-30948-1****Receipt**

The samples were received on 7/19/2023 11:55 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 0.2°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-58638 and analytical batch 880-58621 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

Method 8015MOD_NM: The CCV was biased low for both diesel and gasoline hydrocarbons. Another CCV was analyzed and acceptable within 12 hours; therefore, the data was qualified and reported.(CCV 880-58684/31)

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-30-S-2'-20230717 (880-30948-1), B-31-S-2'-20230717 (880-30948-2), B-32-S-2'-20230717 (880-30948-3), B-33-S-2'-20230717 (880-30948-4), B-34-S-2'-20230717 (880-30948-5), B-35-S-2'-20230717 (880-30948-6), B-36-S-2'-20230717 (880-30948-7), B-37-S-2'-20230717 (880-30948-8), B-38-S-2'-20230717 (880-30948-9), B-39-S-2'-20230717 (880-30948-10), B-40-S-2'-20230717 (880-30948-11), (MB 880-58652/1-A), (880-30781-A-22-F MS) and (880-30781-A-22-G MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-59067 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59067/31).

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-59067/31), (CCV 880-59067/47) and (CCV 880-59067/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-58804 and analytical batch 880-59067 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-43-S-2'-20230717 (880-30948-14), B-44-S-2'-20230717 (880-30948-15), B-45-S-2'-20230717 (880-30948-16), B-46-S-2'-20230717 (880-30948-17), B-50-S-2'-20230717 (880-30948-21), B-54-S-2'-20230717 (880-30948-25) and (880-30948-A-15-D MS). 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 880-58804 and analytical batch 880-59067 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-58806 and analytical batch 880-59069 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-30948-A-40-E MS) and (880-30948-A-40-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-66-S-2'-20230717 (880-30948-37), B-71-S-2'-20230717 (880-30948-42) and B-72-S-2'-20230717 (880-30948-43). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Job ID: 880-30948-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-58806 and analytical batch 880-59069 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-58051 and 880-58051 and analytical batch 880-58466 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

General Chemistry

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-30-S-2'-20230717

Lab Sample ID: 880-30948-1

Date Collected: 07/17/23 09:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000406	J B	0.00203	0.000390	mg/Kg	✧	07/27/23 09:19	07/28/23 01:38	1
Toluene	<0.000462	U	0.00203	0.000462	mg/Kg	✧	07/27/23 09:19	07/28/23 01:38	1
Ethylbenzene	<0.000572	U **	0.00203	0.000572	mg/Kg	✧	07/27/23 09:19	07/28/23 01:38	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	✧	07/27/23 09:19	07/28/23 01:38	1
o-Xylene	<0.000349	U	0.00203	0.000349	mg/Kg	✧	07/27/23 09:19	07/28/23 01:38	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	✧	07/27/23 09:19	07/28/23 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	07/27/23 09:19	07/28/23 01:38	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/27/23 09:19	07/28/23 01:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00405	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	85.7		50.9	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	50.9	15.3	mg/Kg	✧	07/27/23 11:54	07/29/23 03:32	1
Diesel Range Organics (Over C10-C28)	85.7		50.9	15.3	mg/Kg	✧	07/27/23 11:54	07/29/23 03:32	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.9	15.3	mg/Kg	✧	07/27/23 11:54	07/29/23 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	07/27/23 11:54	07/29/23 03:32	1
o-Terphenyl	117		70 - 130	07/27/23 11:54	07/29/23 03:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		25.3	2.00	mg/Kg	✧		07/25/23 08:58	5

Client Sample ID: B-31-S-2'-20230717

Lab Sample ID: 880-30948-2

Date Collected: 07/17/23 09:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000395	U	0.00205	0.000395	mg/Kg	✧	07/27/23 09:19	07/28/23 02:05	1
Toluene	<0.000468	U	0.00205	0.000468	mg/Kg	✧	07/27/23 09:19	07/28/23 02:05	1
Ethylbenzene	<0.000580	U **	0.00205	0.000580	mg/Kg	✧	07/27/23 09:19	07/28/23 02:05	1
m-Xylene & p-Xylene	<0.00104	U	0.00411	0.00104	mg/Kg	✧	07/27/23 09:19	07/28/23 02:05	1
o-Xylene	<0.000353	U	0.00205	0.000353	mg/Kg	✧	07/27/23 09:19	07/28/23 02:05	1
Xylenes, Total	<0.00104	U	0.00411	0.00104	mg/Kg	✧	07/27/23 09:19	07/28/23 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	07/27/23 09:19	07/28/23 02:05	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/27/23 09:19	07/28/23 02:05	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-31-S-2'-20230717

Lab Sample ID: 880-30948-2

Date Collected: 07/17/23 09:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00411	0.00104	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	92.5		51.2	15.4	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.2	15.4	mg/Kg	✱	07/27/23 11:54	07/29/23 04:14	1
Diesel Range Organics (Over C10-C28)	92.5		51.2	15.4	mg/Kg	✱	07/27/23 11:54	07/29/23 04:14	1
Oil Range Organics (Over C28-C36)	<15.4	U	51.2	15.4	mg/Kg	✱	07/27/23 11:54	07/29/23 04:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130				07/27/23 11:54	07/29/23 04:14	1
o-Terphenyl	142	S1+	70 - 130				07/27/23 11:54	07/29/23 04:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	610		5.05	0.399	mg/Kg	✱		07/25/23 09:13	1

Client Sample ID: B-32-S-2'-20230717

Lab Sample ID: 880-30948-3

Date Collected: 07/17/23 09:20

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000553	J B	0.00205	0.000394	mg/Kg	✱	07/27/23 09:19	07/28/23 02:31	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	✱	07/27/23 09:19	07/28/23 02:31	1
Ethylbenzene	<0.000578	U **	0.00205	0.000578	mg/Kg	✱	07/27/23 09:19	07/28/23 02:31	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	✱	07/27/23 09:19	07/28/23 02:31	1
o-Xylene	<0.000352	U	0.00205	0.000352	mg/Kg	✱	07/27/23 09:19	07/28/23 02:31	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	✱	07/27/23 09:19	07/28/23 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				07/27/23 09:19	07/28/23 02:31	1
1,4-Difluorobenzene (Surr)	92		70 - 130				07/27/23 09:19	07/28/23 02:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00409	0.00103	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	113		51.4	15.4	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.4	15.4	mg/Kg	✱	07/27/23 11:54	07/29/23 04:36	1
Diesel Range Organics (Over C10-C28)	113		51.4	15.4	mg/Kg	✱	07/27/23 11:54	07/29/23 04:36	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-32-S-2'-20230717

Lab Sample ID: 880-30948-3

Date Collected: 07/17/23 09:20

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.4	U	51.4	15.4	mg/Kg	☆	07/27/23 11:54	07/29/23 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130				07/27/23 11:54	07/29/23 04:36	1
o-Terphenyl	131	S1+	70 - 130				07/27/23 11:54	07/29/23 04:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		25.3	2.00	mg/Kg	☆		07/25/23 09:18	5

Client Sample ID: B-33-S-2'-20230717

Lab Sample ID: 880-30948-4

Date Collected: 07/17/23 09:30

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000397	U	0.00206	0.000397	mg/Kg	☆	07/27/23 09:19	07/28/23 02:57	1
Toluene	<0.000471	U	0.00206	0.000471	mg/Kg	☆	07/27/23 09:19	07/28/23 02:57	1
Ethylbenzene	<0.000583	U *	0.00206	0.000583	mg/Kg	☆	07/27/23 09:19	07/28/23 02:57	1
m-Xylene & p-Xylene	<0.00104	U	0.00413	0.00104	mg/Kg	☆	07/27/23 09:19	07/28/23 02:57	1
o-Xylene	<0.000355	U	0.00206	0.000355	mg/Kg	☆	07/27/23 09:19	07/28/23 02:57	1
Xylenes, Total	<0.00104	U	0.00413	0.00104	mg/Kg	☆	07/27/23 09:19	07/28/23 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				07/27/23 09:19	07/28/23 02:57	1
1,4-Difluorobenzene (Surr)	82		70 - 130				07/27/23 09:19	07/28/23 02:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00413	0.00104	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	178		51.1	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.1	15.3	mg/Kg	☆	07/27/23 11:54	07/29/23 02:29	1
Diesel Range Organics (Over C10-C28)	178		51.1	15.3	mg/Kg	☆	07/27/23 11:54	07/29/23 02:29	1
Oil Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	☆	07/27/23 11:54	07/29/23 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				07/27/23 11:54	07/29/23 02:29	1
o-Terphenyl	118		70 - 130				07/27/23 11:54	07/29/23 02:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2280		25.7	2.03	mg/Kg	☆		07/25/23 09:23	5

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-34-S-2'-20230717

Lab Sample ID: 880-30948-5

Date Collected: 07/17/23 09:40

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg	✧	07/27/23 09:19	07/28/23 03:23	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg	✧	07/27/23 09:19	07/28/23 03:23	1
Ethylbenzene	<0.000570	U *	0.00202	0.000570	mg/Kg	✧	07/27/23 09:19	07/28/23 03:23	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	✧	07/27/23 09:19	07/28/23 03:23	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	✧	07/27/23 09:19	07/28/23 03:23	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	✧	07/27/23 09:19	07/28/23 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	07/27/23 09:19	07/28/23 03:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/27/23 09:19	07/28/23 03:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	227		50.6	15.2	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.6	15.2	mg/Kg	✧	07/27/23 11:54	07/29/23 03:11	1
Diesel Range Organics (Over C10-C28)	227		50.6	15.2	mg/Kg	✧	07/27/23 11:54	07/29/23 03:11	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.6	15.2	mg/Kg	✧	07/27/23 11:54	07/29/23 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130	07/27/23 11:54	07/29/23 03:11	1
o-Terphenyl	120		70 - 130	07/27/23 11:54	07/29/23 03:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600		25.4	2.01	mg/Kg	✧		07/25/23 09:28	5

Client Sample ID: B-35-S-2'-20230717

Lab Sample ID: 880-30948-6

Date Collected: 07/17/23 09:50

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000508	U	0.00264	0.000508	mg/Kg	✧	07/27/23 09:19	07/28/23 03:49	1
Toluene	<0.000602	U	0.00264	0.000602	mg/Kg	✧	07/27/23 09:19	07/28/23 03:49	1
Ethylbenzene	<0.000746	U *	0.00264	0.000746	mg/Kg	✧	07/27/23 09:19	07/28/23 03:49	1
m-Xylene & p-Xylene	<0.00133	U	0.00528	0.00133	mg/Kg	✧	07/27/23 09:19	07/28/23 03:49	1
o-Xylene	<0.000454	U	0.00264	0.000454	mg/Kg	✧	07/27/23 09:19	07/28/23 03:49	1
Xylenes, Total	<0.00133	U	0.00528	0.00133	mg/Kg	✧	07/27/23 09:19	07/28/23 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	15	S1-	70 - 130	07/27/23 09:19	07/28/23 03:49	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/27/23 09:19	07/28/23 03:49	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-35-S-2'-20230717

Lab Sample ID: 880-30948-6

Date Collected: 07/17/23 09:50

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 75.0

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00133	U	0.00528	0.00133	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.1	J	66.3	19.9	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<19.9	U	66.3	19.9	mg/Kg	✱	07/27/23 11:54	07/29/23 01:26	1
Diesel Range Organics (Over C10-C28)	20.1	J	66.3	19.9	mg/Kg	✱	07/27/23 11:54	07/29/23 01:26	1
Oil Range Organics (Over C28-C36)	<19.9	U	66.3	19.9	mg/Kg	✱	07/27/23 11:54	07/29/23 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				07/27/23 11:54	07/29/23 01:26	1
o-Terphenyl	128		70 - 130				07/27/23 11:54	07/29/23 01:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	544		6.67	0.527	mg/Kg	✱		07/25/23 09:43	1

Client Sample ID: B-36-S-2'-20230717

Lab Sample ID: 880-30948-7

Date Collected: 07/17/23 10:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000395	U	0.00205	0.000395	mg/Kg	✱	07/27/23 09:19	07/28/23 04:15	1
Toluene	<0.000468	U	0.00205	0.000468	mg/Kg	✱	07/27/23 09:19	07/28/23 04:15	1
Ethylbenzene	<0.000580	U **	0.00205	0.000580	mg/Kg	✱	07/27/23 09:19	07/28/23 04:15	1
m-Xylene & p-Xylene	<0.00104	U	0.00411	0.00104	mg/Kg	✱	07/27/23 09:19	07/28/23 04:15	1
o-Xylene	<0.000353	U	0.00205	0.000353	mg/Kg	✱	07/27/23 09:19	07/28/23 04:15	1
Xylenes, Total	<0.00104	U	0.00411	0.00104	mg/Kg	✱	07/27/23 09:19	07/28/23 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				07/27/23 09:19	07/28/23 04:15	1
1,4-Difluorobenzene (Surr)	87		70 - 130				07/27/23 09:19	07/28/23 04:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00411	0.00104	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	141		51.8	15.6	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.6	U	51.8	15.6	mg/Kg	✱	07/27/23 11:54	07/29/23 03:53	1
Diesel Range Organics (Over C10-C28)	141		51.8	15.6	mg/Kg	✱	07/27/23 11:54	07/29/23 03:53	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-36-S-2'-20230717

Lab Sample ID: 880-30948-7

Date Collected: 07/17/23 10:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.6	U	51.8	15.6	mg/Kg	☆	07/27/23 11:54	07/29/23 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				07/27/23 11:54	07/29/23 03:53	1
o-Terphenyl	123		70 - 130				07/27/23 11:54	07/29/23 03:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2380		26.1	2.06	mg/Kg	☆		07/25/23 09:48	5

Client Sample ID: B-37-S-2'-20230717

Lab Sample ID: 880-30948-8

Date Collected: 07/17/23 10:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☆	07/27/23 09:19	07/28/23 04:41	1
Toluene	<0.000466	U	0.00204	0.000466	mg/Kg	☆	07/27/23 09:19	07/28/23 04:41	1
Ethylbenzene	<0.000577	U *	0.00204	0.000577	mg/Kg	☆	07/27/23 09:19	07/28/23 04:41	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☆	07/27/23 09:19	07/28/23 04:41	1
o-Xylene	<0.000351	U	0.00204	0.000351	mg/Kg	☆	07/27/23 09:19	07/28/23 04:41	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☆	07/27/23 09:19	07/28/23 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				07/27/23 09:19	07/28/23 04:41	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/27/23 09:19	07/28/23 04:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00409	0.00103	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	249		50.9	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	50.9	15.3	mg/Kg	☆	07/27/23 11:54	07/29/23 02:50	1
Diesel Range Organics (Over C10-C28)	249		50.9	15.3	mg/Kg	☆	07/27/23 11:54	07/29/23 02:50	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.9	15.3	mg/Kg	☆	07/27/23 11:54	07/29/23 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				07/27/23 11:54	07/29/23 02:50	1
o-Terphenyl	112		70 - 130				07/27/23 11:54	07/29/23 02:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1740		25.3	2.00	mg/Kg	☆		07/25/23 09:53	5

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-38-S-2'-20230717

Lab Sample ID: 880-30948-9

Date Collected: 07/17/23 10:20

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000435	U	0.00226	0.000435	mg/Kg	✧	07/27/23 09:19	07/28/23 05:07	1
Toluene	<0.000515	U	0.00226	0.000515	mg/Kg	✧	07/27/23 09:19	07/28/23 05:07	1
Ethylbenzene	<0.000638	U *	0.00226	0.000638	mg/Kg	✧	07/27/23 09:19	07/28/23 05:07	1
m-Xylene & p-Xylene	<0.00114	U	0.00452	0.00114	mg/Kg	✧	07/27/23 09:19	07/28/23 05:07	1
o-Xylene	<0.000389	U	0.00226	0.000389	mg/Kg	✧	07/27/23 09:19	07/28/23 05:07	1
Xylenes, Total	<0.00114	U	0.00452	0.00114	mg/Kg	✧	07/27/23 09:19	07/28/23 05:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	07/27/23 09:19	07/28/23 05:07	1
1,4-Difluorobenzene (Surr)	86		70 - 130	07/27/23 09:19	07/28/23 05:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00114	U	0.00452	0.00114	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	85.6		55.5	16.7	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<16.7	U	55.5	16.7	mg/Kg	✧	07/27/23 11:54	07/29/23 00:43	1
Diesel Range Organics (Over C10-C28)	85.6		55.5	16.7	mg/Kg	✧	07/27/23 11:54	07/29/23 00:43	1
Oil Range Organics (Over C28-C36)	<16.7	U	55.5	16.7	mg/Kg	✧	07/27/23 11:54	07/29/23 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	07/27/23 11:54	07/29/23 00:43	1
o-Terphenyl	129		70 - 130	07/27/23 11:54	07/29/23 00:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	954		5.62	0.444	mg/Kg	✧		07/25/23 09:58	1

Client Sample ID: B-39-S-2'-20230717

Lab Sample ID: 880-30948-10

Date Collected: 07/17/23 10:30

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000577	J B	0.00203	0.000391	mg/Kg	✧	07/27/23 09:19	07/28/23 05:33	1
Toluene	<0.000463	U	0.00203	0.000463	mg/Kg	✧	07/27/23 09:19	07/28/23 05:33	1
Ethylbenzene	<0.000574	U *	0.00203	0.000574	mg/Kg	✧	07/27/23 09:19	07/28/23 05:33	1
m-Xylene & p-Xylene	<0.00103	U	0.00406	0.00103	mg/Kg	✧	07/27/23 09:19	07/28/23 05:33	1
o-Xylene	<0.000349	U	0.00203	0.000349	mg/Kg	✧	07/27/23 09:19	07/28/23 05:33	1
Xylenes, Total	<0.00103	U	0.00406	0.00103	mg/Kg	✧	07/27/23 09:19	07/28/23 05:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	07/27/23 09:19	07/28/23 05:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/27/23 09:19	07/28/23 05:33	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-39-S-2'-20230717

Lab Sample ID: 880-30948-10

Date Collected: 07/17/23 10:30

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.5

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00406	0.00103	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	187		50.4	15.1	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg	✱	07/27/23 11:54	07/29/23 02:08	1
Diesel Range Organics (Over C10-C28)	187		50.4	15.1	mg/Kg	✱	07/27/23 11:54	07/29/23 02:08	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	✱	07/27/23 11:54	07/29/23 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				07/27/23 11:54	07/29/23 02:08	1
o-Terphenyl	115		70 - 130				07/27/23 11:54	07/29/23 02:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1940		25.5	2.02	mg/Kg	✱		07/25/23 10:03	5

Client Sample ID: B-40-S-2'-20230717

Lab Sample ID: 880-30948-11

Date Collected: 07/17/23 10:40

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000419	J B	0.00202	0.000390	mg/Kg	✱	07/27/23 09:19	07/28/23 07:18	1
Toluene	<0.000462	U	0.00202	0.000462	mg/Kg	✱	07/27/23 09:19	07/28/23 07:18	1
Ethylbenzene	<0.000572	U **	0.00202	0.000572	mg/Kg	✱	07/27/23 09:19	07/28/23 07:18	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	✱	07/27/23 09:19	07/28/23 07:18	1
o-Xylene	<0.000348	U	0.00202	0.000348	mg/Kg	✱	07/27/23 09:19	07/28/23 07:18	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	✱	07/27/23 09:19	07/28/23 07:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				07/27/23 09:19	07/28/23 07:18	1
1,4-Difluorobenzene (Surr)	81		70 - 130				07/27/23 09:19	07/28/23 07:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00405	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	266		51.0	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.0	15.3	mg/Kg	✱	07/27/23 11:54	07/29/23 01:47	1
Diesel Range Organics (Over C10-C28)	266		51.0	15.3	mg/Kg	✱	07/27/23 11:54	07/29/23 01:47	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-40-S-2'-20230717

Lab Sample ID: 880-30948-11

Date Collected: 07/17/23 10:40

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.3	U	51.0	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				07/27/23 11:54	07/29/23 01:47	1
o-Terphenyl	111		70 - 130				07/27/23 11:54	07/29/23 01:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		25.2	1.99	mg/Kg	☼		07/25/23 10:08	5

Client Sample ID: B-41S-2'-20230717

Lab Sample ID: 880-30948-12

Date Collected: 07/17/23 10:50

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg	☼	07/27/23 09:19	07/28/23 07:45	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg	☼	07/27/23 09:19	07/28/23 07:45	1
Ethylbenzene	<0.000568	U *	0.00201	0.000568	mg/Kg	☼	07/27/23 09:19	07/28/23 07:45	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 07:45	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	☼	07/27/23 09:19	07/28/23 07:45	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 07:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130				07/27/23 09:19	07/28/23 07:45	1
1,4-Difluorobenzene (Surr)	93		70 - 130				07/27/23 09:19	07/28/23 07:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	170		50.4	15.1	mg/Kg			07/31/23 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg	☼	07/28/23 17:25	07/31/23 06:37	1
Diesel Range Organics (Over C10-C28)	170		50.4	15.1	mg/Kg	☼	07/28/23 17:25	07/31/23 06:37	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	☼	07/28/23 17:25	07/31/23 06:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				07/28/23 17:25	07/31/23 06:37	1
o-Terphenyl	82		70 - 130				07/28/23 17:25	07/31/23 06:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		25.1	1.99	mg/Kg	☼		07/25/23 10:22	5

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-42-S-2'-20230717

Lab Sample ID: 880-30948-13

Date Collected: 07/17/23 11:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000457	J B	0.00205	0.000394	mg/Kg	✧	07/27/23 09:19	07/28/23 08:11	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	✧	07/27/23 09:19	07/28/23 08:11	1
Ethylbenzene	<0.000579	U *+	0.00205	0.000579	mg/Kg	✧	07/27/23 09:19	07/28/23 08:11	1
m-Xylene & p-Xylene	<0.00103	U	0.00410	0.00103	mg/Kg	✧	07/27/23 09:19	07/28/23 08:11	1
o-Xylene	<0.000352	U	0.00205	0.000352	mg/Kg	✧	07/27/23 09:19	07/28/23 08:11	1
Xylenes, Total	<0.00103	U	0.00410	0.00103	mg/Kg	✧	07/27/23 09:19	07/28/23 08:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	07/27/23 09:19	07/28/23 08:11	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/27/23 09:19	07/28/23 08:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00410	0.00103	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.0		51.6	15.5	mg/Kg			07/31/23 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.5	U	51.6	15.5	mg/Kg	✧	07/28/23 17:25	07/31/23 06:58	1
Diesel Range Organics (Over C10-C28)	91.0		51.6	15.5	mg/Kg	✧	07/28/23 17:25	07/31/23 06:58	1
Oil Range Organics (Over C28-C36)	<15.5	U	51.6	15.5	mg/Kg	✧	07/28/23 17:25	07/31/23 06:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	07/28/23 17:25	07/31/23 06:58	1
o-Terphenyl	76		70 - 130	07/28/23 17:25	07/31/23 06:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2690		25.4	2.00	mg/Kg	✧		07/25/23 10:27	5

Client Sample ID: B-43-S-2'-20230717

Lab Sample ID: 880-30948-14

Date Collected: 07/17/23 11:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000577	J B	0.00262	0.000504	mg/Kg	✧	07/27/23 09:19	07/28/23 09:05	1
Toluene	<0.000597	U	0.00262	0.000597	mg/Kg	✧	07/27/23 09:19	07/28/23 09:05	1
Ethylbenzene	<0.000739	U *+	0.00262	0.000739	mg/Kg	✧	07/27/23 09:19	07/28/23 09:05	1
m-Xylene & p-Xylene	<0.00132	U	0.00523	0.00132	mg/Kg	✧	07/27/23 09:19	07/28/23 09:05	1
o-Xylene	<0.000450	U	0.00262	0.000450	mg/Kg	✧	07/27/23 09:19	07/28/23 09:05	1
Xylenes, Total	<0.00132	U	0.00523	0.00132	mg/Kg	✧	07/27/23 09:19	07/28/23 09:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	07/27/23 09:19	07/28/23 09:05	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/27/23 09:19	07/28/23 09:05	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-43-S-2'-20230717

Lab Sample ID: 880-30948-14

Date Collected: 07/17/23 11:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 76.0

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00132	U	0.00523	0.00132	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.5	J	66.4	19.9	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.7	J B	66.4	19.9	mg/Kg	✱	07/31/23 08:29	08/02/23 21:11	1
Diesel Range Organics (Over C10-C28)	23.8	J B	66.4	19.9	mg/Kg	✱	07/31/23 08:29	08/02/23 21:11	1
Oil Range Organics (Over C28-C36)	<19.9	U	66.4	19.9	mg/Kg	✱	07/31/23 08:29	08/02/23 21:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	158	S1+	70 - 130				07/31/23 08:29	08/02/23 21:11	1
o-Terphenyl	131	S1+	70 - 130				07/31/23 08:29	08/02/23 21:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	355		6.62	0.523	mg/Kg	✱		07/25/23 10:42	1

Client Sample ID: B-44-S-2'-20230717

Lab Sample ID: 880-30948-15

Date Collected: 07/17/23 11:20

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000403	J B	0.00201	0.000387	mg/Kg	✱	07/27/23 09:19	07/28/23 09:31	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg	✱	07/27/23 09:19	07/28/23 09:31	1
Ethylbenzene	<0.000568	U **	0.00201	0.000568	mg/Kg	✱	07/27/23 09:19	07/28/23 09:31	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg	✱	07/27/23 09:19	07/28/23 09:31	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	✱	07/27/23 09:19	07/28/23 09:31	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg	✱	07/27/23 09:19	07/28/23 09:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				07/27/23 09:19	07/28/23 09:31	1
1,4-Difluorobenzene (Surr)	88		70 - 130				07/27/23 09:19	07/28/23 09:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.8		51.1	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.9	J B	51.1	15.3	mg/Kg	✱	07/31/23 08:29	08/02/23 20:06	1
Diesel Range Organics (Over C10-C28)	60.9	B	51.1	15.3	mg/Kg	✱	07/31/23 08:29	08/02/23 20:06	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-44-S-2'-20230717

Lab Sample ID: 880-30948-15

Date Collected: 07/17/23 11:20

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	☆	07/31/23 08:29	08/02/23 20:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				07/31/23 08:29	08/02/23 20:06	1
o-Terphenyl	114		70 - 130				07/31/23 08:29	08/02/23 20:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	538		5.08	0.401	mg/Kg	☆		07/25/23 10:47	1

Client Sample ID: B-45-S-2'-20230717

Lab Sample ID: 880-30948-16

Date Collected: 07/17/23 11:30

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000402	J B	0.00205	0.000394	mg/Kg	☆	07/27/23 09:19	07/28/23 09:57	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	☆	07/27/23 09:19	07/28/23 09:57	1
Ethylbenzene	<0.000579	U *	0.00205	0.000579	mg/Kg	☆	07/27/23 09:19	07/28/23 09:57	1
m-Xylene & p-Xylene	<0.00103	U	0.00410	0.00103	mg/Kg	☆	07/27/23 09:19	07/28/23 09:57	1
o-Xylene	<0.000352	U	0.00205	0.000352	mg/Kg	☆	07/27/23 09:19	07/28/23 09:57	1
Xylenes, Total	<0.00103	U	0.00410	0.00103	mg/Kg	☆	07/27/23 09:19	07/28/23 09:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				07/27/23 09:19	07/28/23 09:57	1
1,4-Difluorobenzene (Surr)	87		70 - 130				07/27/23 09:19	07/28/23 09:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00410	0.00103	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	140		51.2	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.2	J B	51.2	15.3	mg/Kg	☆	07/31/23 08:29	08/03/23 03:58	1
Diesel Range Organics (Over C10-C28)	111	B	51.2	15.3	mg/Kg	☆	07/31/23 08:29	08/03/23 03:58	1
Oil Range Organics (Over C28-C36)	<15.3	U	51.2	15.3	mg/Kg	☆	07/31/23 08:29	08/03/23 03:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				07/31/23 08:29	08/03/23 03:58	1
o-Terphenyl	116		70 - 130				07/31/23 08:29	08/03/23 03:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		25.7	2.03	mg/Kg	☆		07/25/23 10:52	5

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-46-S-2'-20230717

Lab Sample ID: 880-30948-17

Date Collected: 07/17/23 11:40

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 75.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000707	J B	0.00269	0.000518	mg/Kg	☼	07/27/23 09:19	07/28/23 10:23	1
Toluene	<0.000613	U	0.00269	0.000613	mg/Kg	☼	07/27/23 09:19	07/28/23 10:23	1
Ethylbenzene	<0.000760	U **	0.00269	0.000760	mg/Kg	☼	07/27/23 09:19	07/28/23 10:23	1
m-Xylene & p-Xylene	<0.00136	U	0.00538	0.00136	mg/Kg	☼	07/27/23 09:19	07/28/23 10:23	1
o-Xylene	<0.000463	U	0.00269	0.000463	mg/Kg	☼	07/27/23 09:19	07/28/23 10:23	1
Xylenes, Total	<0.00136	U	0.00538	0.00136	mg/Kg	☼	07/27/23 09:19	07/28/23 10:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	07/27/23 09:19	07/28/23 10:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/27/23 09:19	07/28/23 10:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00136	U	0.00538	0.00136	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.3		66.6	20.0	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	41.3	J B	66.6	20.0	mg/Kg	☼	07/31/23 08:29	08/02/23 21:33	1
Diesel Range Organics (Over C10-C28)	41.0	J B	66.6	20.0	mg/Kg	☼	07/31/23 08:29	08/02/23 21:33	1
Oil Range Organics (Over C28-C36)	<20.0	U	66.6	20.0	mg/Kg	☼	07/31/23 08:29	08/02/23 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	07/31/23 08:29	08/02/23 21:33	1
o-Terphenyl	110		70 - 130	07/31/23 08:29	08/02/23 21:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	407		6.72	0.531	mg/Kg	☼		07/25/23 10:57	1

Client Sample ID: B-47-S-2'-20230717

Lab Sample ID: 880-30948-18

Date Collected: 07/17/23 11:50

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000430	J B	0.00202	0.000388	mg/Kg	☼	07/27/23 09:19	07/28/23 10:49	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg	☼	07/27/23 09:19	07/28/23 10:49	1
Ethylbenzene	<0.000570	U **	0.00202	0.000570	mg/Kg	☼	07/27/23 09:19	07/28/23 10:49	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 10:49	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	☼	07/27/23 09:19	07/28/23 10:49	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 10:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	07/27/23 09:19	07/28/23 10:49	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/27/23 09:19	07/28/23 10:49	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-47-S-2'-20230717

Lab Sample ID: 880-30948-18

Date Collected: 07/17/23 11:50

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.7

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	202		51.1	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.1	J B	51.1	15.3	mg/Kg	✱	07/31/23 08:29	08/03/23 02:32	1
Diesel Range Organics (Over C10-C28)	183	B	51.1	15.3	mg/Kg	✱	07/31/23 08:29	08/03/23 02:32	1
Oil Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	✱	07/31/23 08:29	08/03/23 02:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				07/31/23 08:29	08/03/23 02:32	1
o-Terphenyl	94		70 - 130				07/31/23 08:29	08/03/23 02:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	984		25.2	1.99	mg/Kg	✱		07/25/23 11:02	5

Client Sample ID: B-48-S-2'-20230717

Lab Sample ID: 880-30948-19

Date Collected: 07/17/23 12:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000397	J B	0.00203	0.000391	mg/Kg	✱	07/27/23 09:19	07/28/23 11:15	1
Toluene	<0.000463	U	0.00203	0.000463	mg/Kg	✱	07/27/23 09:19	07/28/23 11:15	1
Ethylbenzene	<0.000573	U **	0.00203	0.000573	mg/Kg	✱	07/27/23 09:19	07/28/23 11:15	1
m-Xylene & p-Xylene	<0.00103	U	0.00406	0.00103	mg/Kg	✱	07/27/23 09:19	07/28/23 11:15	1
o-Xylene	<0.000349	U	0.00203	0.000349	mg/Kg	✱	07/27/23 09:19	07/28/23 11:15	1
Xylenes, Total	<0.00103	U	0.00406	0.00103	mg/Kg	✱	07/27/23 09:19	07/28/23 11:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				07/27/23 09:19	07/28/23 11:15	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/27/23 09:19	07/28/23 11:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00406	0.00103	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	217		50.9	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.6	J B	50.9	15.3	mg/Kg	✱	07/31/23 08:29	08/03/23 02:54	1
Diesel Range Organics (Over C10-C28)	191	B	50.9	15.3	mg/Kg	✱	07/31/23 08:29	08/03/23 02:54	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-48-S-2'-20230717

Lab Sample ID: 880-30948-19

Date Collected: 07/17/23 12:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.3	U	50.9	15.3	mg/Kg	☆	07/31/23 08:29	08/03/23 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				07/31/23 08:29	08/03/23 02:54	1
o-Terphenyl	93		70 - 130				07/31/23 08:29	08/03/23 02:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1450		25.3	2.00	mg/Kg	☆		07/25/23 11:07	5

Client Sample ID: B-49-S-2'-20230717

Lab Sample ID: 880-30948-20

Date Collected: 07/17/23 12:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg	☆	07/27/23 09:19	07/28/23 11:41	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg	☆	07/27/23 09:19	07/28/23 11:41	1
Ethylbenzene	<0.000570	U *	0.00202	0.000570	mg/Kg	☆	07/27/23 09:19	07/28/23 11:41	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg	☆	07/27/23 09:19	07/28/23 11:41	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	☆	07/27/23 09:19	07/28/23 11:41	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg	☆	07/27/23 09:19	07/28/23 11:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				07/27/23 09:19	07/28/23 11:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130				07/27/23 09:19	07/28/23 11:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	174		51.2	15.4	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.2	15.4	mg/Kg	☆	07/31/23 08:29	08/03/23 03:15	1
Diesel Range Organics (Over C10-C28)	174	B	51.2	15.4	mg/Kg	☆	07/31/23 08:29	08/03/23 03:15	1
Oil Range Organics (Over C28-C36)	<15.4	U	51.2	15.4	mg/Kg	☆	07/31/23 08:29	08/03/23 03:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				07/31/23 08:29	08/03/23 03:15	1
o-Terphenyl	102		70 - 130				07/31/23 08:29	08/03/23 03:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2850		25.5	2.01	mg/Kg	☆		07/25/23 11:12	5

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-50-S-2'-20230717

Lab Sample ID: 880-30948-21

Date Collected: 07/17/23 12:20

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000518	U	0.00269	0.000518	mg/Kg	✧	07/27/23 13:35	07/28/23 12:35	1
Toluene	0.000779	J	0.00269	0.000613	mg/Kg	✧	07/27/23 13:35	07/28/23 12:35	1
Ethylbenzene	<0.000760	U	0.00269	0.000760	mg/Kg	✧	07/27/23 13:35	07/28/23 12:35	1
m-Xylene & p-Xylene	<0.00136	U	0.00538	0.00136	mg/Kg	✧	07/27/23 13:35	07/28/23 12:35	1
o-Xylene	0.000833	J	0.00269	0.000463	mg/Kg	✧	07/27/23 13:35	07/28/23 12:35	1
Xylenes, Total	<0.00136	U	0.00538	0.00136	mg/Kg	✧	07/27/23 13:35	07/28/23 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	07/27/23 13:35	07/28/23 12:35	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/27/23 13:35	07/28/23 12:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00161	J	0.00538	0.00136	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	48.2	J	67.3	20.2	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.2	J B	67.3	20.2	mg/Kg	✧	07/31/23 08:29	08/02/23 21:54	1
Diesel Range Organics (Over C10-C28)	28.0	J B	67.3	20.2	mg/Kg	✧	07/31/23 08:29	08/02/23 21:54	1
Oil Range Organics (Over C28-C36)	<20.2	U	67.3	20.2	mg/Kg	✧	07/31/23 08:29	08/02/23 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	07/31/23 08:29	08/02/23 21:54	1
o-Terphenyl	111		70 - 130	07/31/23 08:29	08/02/23 21:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	478	F1	6.81	0.538	mg/Kg	✧		07/25/23 11:47	1

Client Sample ID: B-51-S-2'-20230717

Lab Sample ID: 880-30948-22

Date Collected: 07/17/23 12:30

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000398	U	0.00207	0.000398	mg/Kg	✧	07/27/23 13:35	07/28/23 12:55	1
Toluene	0.000573	J	0.00207	0.000471	mg/Kg	✧	07/27/23 13:35	07/28/23 12:55	1
Ethylbenzene	<0.000583	U	0.00207	0.000583	mg/Kg	✧	07/27/23 13:35	07/28/23 12:55	1
m-Xylene & p-Xylene	<0.00104	U	0.00413	0.00104	mg/Kg	✧	07/27/23 13:35	07/28/23 12:55	1
o-Xylene	<0.000355	U	0.00207	0.000355	mg/Kg	✧	07/27/23 13:35	07/28/23 12:55	1
Xylenes, Total	<0.00104	U	0.00413	0.00104	mg/Kg	✧	07/27/23 13:35	07/28/23 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	07/27/23 13:35	07/28/23 12:55	1
1,4-Difluorobenzene (Surr)	105		70 - 130	07/27/23 13:35	07/28/23 12:55	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-51-S-2'-20230717
Date Collected: 07/17/23 12:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-22
Matrix: Solid
Percent Solids: 97.8

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00104	U	0.00413	0.00104	mg/Kg			07/31/23 10:36	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	463		51.0	15.3	mg/Kg			08/03/23 10:46	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	17.1	J B	51.0	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 01:28	1	
Diesel Range Organics (Over C10-C28)	446	B	51.0	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 01:28	1	
Oil Range Organics (Over C28-C36)	<15.3	U	51.0	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 01:28	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	124		70 - 130				07/31/23 08:29	08/03/23 01:28	1	
o-Terphenyl	102		70 - 130				07/31/23 08:29	08/03/23 01:28	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	322		5.08	0.401	mg/Kg	☼		07/25/23 12:03	1	

Client Sample ID: B-52-S-2'-20230717
Date Collected: 07/17/23 12:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-23
Matrix: Solid
Percent Solids: 98.1

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☼	07/27/23 13:35	07/28/23 13:16	1
Toluene	0.000710	J	0.00204	0.000466	mg/Kg	☼	07/27/23 13:35	07/28/23 13:16	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	☼	07/27/23 13:35	07/28/23 13:16	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 13:16	1
o-Xylene	0.000498	J	0.00204	0.000351	mg/Kg	☼	07/27/23 13:35	07/28/23 13:16	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				07/27/23 13:35	07/28/23 13:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/27/23 13:35	07/28/23 13:16	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00121	J	0.00409	0.00103	mg/Kg			07/31/23 10:36	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	197		51.3	15.4	mg/Kg			08/03/23 10:46	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.3	15.4	mg/Kg	☼	07/31/23 08:29	08/03/23 01:49	1
Diesel Range Organics (Over C10-C28)	197	B	51.3	15.4	mg/Kg	☼	07/31/23 08:29	08/03/23 01:49	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-52-S-2'-20230717

Lab Sample ID: 880-30948-23

Date Collected: 07/17/23 12:40

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.4	U	51.3	15.4	mg/Kg	☆	07/31/23 08:29	08/03/23 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				07/31/23 08:29	08/03/23 01:49	1
o-Terphenyl	106		70 - 130				07/31/23 08:29	08/03/23 01:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		5.06	0.400	mg/Kg	☆		07/25/23 12:08	1

Client Sample ID: B-53-S-2'-20230717

Lab Sample ID: 880-30948-24

Date Collected: 07/17/23 12:50

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☆	07/27/23 13:35	07/28/23 13:36	1
Toluene	0.000840	J	0.00204	0.000466	mg/Kg	☆	07/27/23 13:35	07/28/23 13:36	1
Ethylbenzene	0.000577	J	0.00204	0.000577	mg/Kg	☆	07/27/23 13:35	07/28/23 13:36	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☆	07/27/23 13:35	07/28/23 13:36	1
o-Xylene	<0.000351	U	0.00204	0.000351	mg/Kg	☆	07/27/23 13:35	07/28/23 13:36	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☆	07/27/23 13:35	07/28/23 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				07/27/23 13:35	07/28/23 13:36	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/27/23 13:35	07/28/23 13:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00142	J	0.00409	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.1		51.2	15.4	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.2	15.4	mg/Kg	☆	07/31/23 08:29	08/02/23 22:59	1
Diesel Range Organics (Over C10-C28)	91.1	B	51.2	15.4	mg/Kg	☆	07/31/23 08:29	08/02/23 22:59	1
Oil Range Organics (Over C28-C36)	<15.4	U	51.2	15.4	mg/Kg	☆	07/31/23 08:29	08/02/23 22:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				07/31/23 08:29	08/02/23 22:59	1
o-Terphenyl	104		70 - 130				07/31/23 08:29	08/02/23 22:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		5.09	0.402	mg/Kg	☆		07/25/23 12:14	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-54-S-2'-20230717

Lab Sample ID: 880-30948-25

Date Collected: 07/17/23 13:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00208	0.000400	mg/Kg	✧	07/27/23 13:35	07/28/23 13:57	1
Toluene	<0.000473	U	0.00208	0.000473	mg/Kg	✧	07/27/23 13:35	07/28/23 13:57	1
Ethylbenzene	<0.000586	U	0.00208	0.000586	mg/Kg	✧	07/27/23 13:35	07/28/23 13:57	1
m-Xylene & p-Xylene	<0.00105	U	0.00415	0.00105	mg/Kg	✧	07/27/23 13:35	07/28/23 13:57	1
o-Xylene	<0.000357	U	0.00208	0.000357	mg/Kg	✧	07/27/23 13:35	07/28/23 13:57	1
Xylenes, Total	<0.00105	U	0.00415	0.00105	mg/Kg	✧	07/27/23 13:35	07/28/23 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	07/27/23 13:35	07/28/23 13:57	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/27/23 13:35	07/28/23 13:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00105	U	0.00415	0.00105	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	128		51.1	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46.1	J B	51.1	15.3	mg/Kg	✧	07/31/23 08:29	08/03/23 00:03	1
Diesel Range Organics (Over C10-C28)	82.1	B	51.1	15.3	mg/Kg	✧	07/31/23 08:29	08/03/23 00:03	1
Oil Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	✧	07/31/23 08:29	08/03/23 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	07/31/23 08:29	08/03/23 00:03	1
o-Terphenyl	121		70 - 130	07/31/23 08:29	08/03/23 00:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		5.17	0.408	mg/Kg	✧		07/25/23 12:19	1

Client Sample ID: B-55-S-2'-20230717

Lab Sample ID: 880-30948-26

Date Collected: 07/17/23 13:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000390	U	0.00202	0.000390	mg/Kg	✧	07/27/23 13:35	07/28/23 14:17	1
Toluene	0.000742	J	0.00202	0.000461	mg/Kg	✧	07/27/23 13:35	07/28/23 14:17	1
Ethylbenzene	<0.000572	U	0.00202	0.000572	mg/Kg	✧	07/27/23 13:35	07/28/23 14:17	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	✧	07/27/23 13:35	07/28/23 14:17	1
o-Xylene	<0.000348	U	0.00202	0.000348	mg/Kg	✧	07/27/23 13:35	07/28/23 14:17	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	✧	07/27/23 13:35	07/28/23 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	07/27/23 13:35	07/28/23 14:17	1
1,4-Difluorobenzene (Surr)	101		70 - 130	07/27/23 13:35	07/28/23 14:17	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-55-S-2'-20230717

Lab Sample ID: 880-30948-26

Date Collected: 07/17/23 13:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.2

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00405	0.00102	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	175		50.4	15.1	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.5	J B	50.4	15.1	mg/Kg	✱	07/31/23 08:29	08/03/23 02:11	1
Diesel Range Organics (Over C10-C28)	153	B	50.4	15.1	mg/Kg	✱	07/31/23 08:29	08/03/23 02:11	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	✱	07/31/23 08:29	08/03/23 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				07/31/23 08:29	08/03/23 02:11	1
o-Terphenyl	97		70 - 130				07/31/23 08:29	08/03/23 02:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540		25.4	2.01	mg/Kg	✱		07/26/23 09:42	5

Client Sample ID: B-56-S-2'-20230717

Lab Sample ID: 880-30948-27

Date Collected: 07/17/23 13:20

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg	✱	07/27/23 13:35	07/28/23 14:38	1
Toluene	0.000963	J	0.00200	0.000456	mg/Kg	✱	07/27/23 13:35	07/28/23 14:38	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg	✱	07/27/23 13:35	07/28/23 14:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg	✱	07/27/23 13:35	07/28/23 14:38	1
o-Xylene	0.000426	J	0.00200	0.000344	mg/Kg	✱	07/27/23 13:35	07/28/23 14:38	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg	✱	07/27/23 13:35	07/28/23 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				07/27/23 13:35	07/28/23 14:38	1
1,4-Difluorobenzene (Surr)	104		70 - 130				07/27/23 13:35	07/28/23 14:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00139	J	0.00400	0.00101	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	254		50.5	15.1	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.3	J B	50.5	15.1	mg/Kg	✱	07/31/23 08:29	08/03/23 01:07	1
Diesel Range Organics (Over C10-C28)	210	B	50.5	15.1	mg/Kg	✱	07/31/23 08:29	08/03/23 01:07	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-56-S-2'-20230717

Lab Sample ID: 880-30948-27

Date Collected: 07/17/23 13:20

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg	☆	07/31/23 08:29	08/03/23 01:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				07/31/23 08:29	08/03/23 01:07	1
o-Terphenyl	102		70 - 130				07/31/23 08:29	08/03/23 01:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	698		5.10	0.403	mg/Kg	☆		07/25/23 12:40	1

Client Sample ID: B-57-S-2'-20230717

Lab Sample ID: 880-30948-28

Date Collected: 07/17/23 13:30

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000488	U	0.00253	0.000488	mg/Kg	☆	07/27/23 13:35	07/28/23 14:58	1
Toluene	0.000698	J	0.00253	0.000578	mg/Kg	☆	07/27/23 13:35	07/28/23 14:58	1
Ethylbenzene	<0.000716	U	0.00253	0.000716	mg/Kg	☆	07/27/23 13:35	07/28/23 14:58	1
m-Xylene & p-Xylene	<0.00128	U	0.00507	0.00128	mg/Kg	☆	07/27/23 13:35	07/28/23 14:58	1
o-Xylene	<0.000436	U	0.00253	0.000436	mg/Kg	☆	07/27/23 13:35	07/28/23 14:58	1
Xylenes, Total	<0.00128	U	0.00507	0.00128	mg/Kg	☆	07/27/23 13:35	07/28/23 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				07/27/23 13:35	07/28/23 14:58	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/27/23 13:35	07/28/23 14:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00128	U	0.00507	0.00128	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.5		62.5	18.7	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.1	J B	62.5	18.7	mg/Kg	☆	07/31/23 08:29	08/02/23 22:16	1
Diesel Range Organics (Over C10-C28)	43.4	J B	62.5	18.7	mg/Kg	☆	07/31/23 08:29	08/02/23 22:16	1
Oil Range Organics (Over C28-C36)	<18.7	U	62.5	18.7	mg/Kg	☆	07/31/23 08:29	08/02/23 22:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				07/31/23 08:29	08/02/23 22:16	1
o-Terphenyl	110		70 - 130				07/31/23 08:29	08/02/23 22:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	243		6.27	0.495	mg/Kg	☆		07/25/23 12:46	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-58-S-2'-20230717

Lab Sample ID: 880-30948-29

Date Collected: 07/17/23 13:40

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 0.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0766	J	0.218	0.0419	mg/Kg	✧	07/27/23 13:35	07/28/23 15:19	1
Toluene	0.0952	J	0.218	0.0496	mg/Kg	✧	07/27/23 13:35	07/28/23 15:19	1
Ethylbenzene	<0.0615	U	0.218	0.0615	mg/Kg	✧	07/27/23 13:35	07/28/23 15:19	1
m-Xylene & p-Xylene	<0.110	U	0.435	0.110	mg/Kg	✧	07/27/23 13:35	07/28/23 15:19	1
o-Xylene	<0.0374	U	0.218	0.0374	mg/Kg	✧	07/27/23 13:35	07/28/23 15:19	1
Xylenes, Total	<0.110	U	0.435	0.110	mg/Kg	✧	07/27/23 13:35	07/28/23 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	07/27/23 13:35	07/28/23 15:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/27/23 13:35	07/28/23 15:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.172	J	0.435	0.110	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	14900		5460	1640	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1890	J B	5460	1640	mg/Kg	✧	07/31/23 08:29	08/03/23 03:36	1
Diesel Range Organics (Over C10-C28)	13000	B	5460	1640	mg/Kg	✧	07/31/23 08:29	08/03/23 03:36	1
Oil Range Organics (Over C28-C36)	<1640	U	5460	1640	mg/Kg	✧	07/31/23 08:29	08/03/23 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	07/31/23 08:29	08/03/23 03:36	1
o-Terphenyl	94		70 - 130	07/31/23 08:29	08/03/23 03:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58400		545	43.1	mg/Kg	✧		07/25/23 12:51	1

Client Sample ID: B-59-S-2'-20230717

Lab Sample ID: 880-30948-30

Date Collected: 07/17/23 13:50

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000391	U	0.00203	0.000391	mg/Kg	✧	07/27/23 13:35	07/28/23 15:39	1
Toluene	<0.000463	U	0.00203	0.000463	mg/Kg	✧	07/27/23 13:35	07/28/23 15:39	1
Ethylbenzene	<0.000574	U	0.00203	0.000574	mg/Kg	✧	07/27/23 13:35	07/28/23 15:39	1
m-Xylene & p-Xylene	<0.00103	U	0.00406	0.00103	mg/Kg	✧	07/27/23 13:35	07/28/23 15:39	1
o-Xylene	<0.000349	U	0.00203	0.000349	mg/Kg	✧	07/27/23 13:35	07/28/23 15:39	1
Xylenes, Total	<0.00103	U	0.00406	0.00103	mg/Kg	✧	07/27/23 13:35	07/28/23 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	07/27/23 13:35	07/28/23 15:39	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/27/23 13:35	07/28/23 15:39	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-59-S-2'-20230717

Lab Sample ID: 880-30948-30

Date Collected: 07/17/23 13:50

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.4

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00406	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	88.4		50.9	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.1	J B	50.9	15.3	mg/Kg	✱	07/31/23 08:29	08/02/23 23:20	1
Diesel Range Organics (Over C10-C28)	68.3	B	50.9	15.3	mg/Kg	✱	07/31/23 08:29	08/02/23 23:20	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.9	15.3	mg/Kg	✱	07/31/23 08:29	08/02/23 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				07/31/23 08:29	08/02/23 23:20	1
o-Terphenyl	103		70 - 130				07/31/23 08:29	08/02/23 23:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	504		5.12	0.404	mg/Kg	✱		07/25/23 12:56	1

Client Sample ID: B-60-S-2'-20230717

Lab Sample ID: 880-30948-31

Date Collected: 07/17/23 14:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000390	U	0.00202	0.000390	mg/Kg	✱	07/27/23 13:35	07/28/23 17:31	1
Toluene	0.000866	J	0.00202	0.000461	mg/Kg	✱	07/27/23 13:35	07/28/23 17:31	1
Ethylbenzene	<0.000572	U	0.00202	0.000572	mg/Kg	✱	07/27/23 13:35	07/28/23 17:31	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	✱	07/27/23 13:35	07/28/23 17:31	1
o-Xylene	<0.000348	U	0.00202	0.000348	mg/Kg	✱	07/27/23 13:35	07/28/23 17:31	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	✱	07/27/23 13:35	07/28/23 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				07/27/23 13:35	07/28/23 17:31	1
1,4-Difluorobenzene (Surr)	100		70 - 130				07/27/23 13:35	07/28/23 17:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00405	0.00102	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.5		51.1	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.2	J B	51.1	15.3	mg/Kg	✱	07/31/23 08:29	08/03/23 00:45	1
Diesel Range Organics (Over C10-C28)	47.3	J B	51.1	15.3	mg/Kg	✱	07/31/23 08:29	08/03/23 00:45	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-60-S-2'-20230717

Lab Sample ID: 880-30948-31

Date Collected: 07/17/23 14:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	☆	07/31/23 08:29	08/03/23 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				07/31/23 08:29	08/03/23 00:45	1
o-Terphenyl	103		70 - 130				07/31/23 08:29	08/03/23 00:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	764	F1	5.09	0.402	mg/Kg	☆		07/25/23 13:02	1

Client Sample ID: B-61-S-2'-20230717

Lab Sample ID: 880-30948-32

Date Collected: 07/17/23 14:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000413	J	0.00204	0.000392	mg/Kg	☆	07/27/23 13:35	07/28/23 17:51	1
Toluene	0.000796	J	0.00204	0.000464	mg/Kg	☆	07/27/23 13:35	07/28/23 17:51	1
Ethylbenzene	<0.000575	U	0.00204	0.000575	mg/Kg	☆	07/27/23 13:35	07/28/23 17:51	1
m-Xylene & p-Xylene	<0.00103	U	0.00407	0.00103	mg/Kg	☆	07/27/23 13:35	07/28/23 17:51	1
o-Xylene	0.000409	J	0.00204	0.000350	mg/Kg	☆	07/27/23 13:35	07/28/23 17:51	1
Xylenes, Total	<0.00103	U	0.00407	0.00103	mg/Kg	☆	07/27/23 13:35	07/28/23 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				07/27/23 13:35	07/28/23 17:51	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/27/23 13:35	07/28/23 17:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00162	J	0.00407	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	110		51.0	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.0	J B	51.0	15.3	mg/Kg	☆	07/31/23 08:29	08/02/23 23:41	1
Diesel Range Organics (Over C10-C28)	91.2	B	51.0	15.3	mg/Kg	☆	07/31/23 08:29	08/02/23 23:41	1
Oil Range Organics (Over C28-C36)	<15.3	U	51.0	15.3	mg/Kg	☆	07/31/23 08:29	08/02/23 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				07/31/23 08:29	08/02/23 23:41	1
o-Terphenyl	102		70 - 130				07/31/23 08:29	08/02/23 23:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	636		5.14	0.406	mg/Kg	☆		07/25/23 13:18	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-62-S-2'-20230717
Date Collected: 07/17/23 14:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-33
Matrix: Solid
Percent Solids: 98.5

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00201	0.000388	mg/Kg	☼	07/27/23 13:35	07/28/23 18:12	1
Toluene	0.00104	J	0.00201	0.000459	mg/Kg	☼	07/27/23 13:35	07/28/23 18:12	1
Ethylbenzene	<0.000569	U	0.00201	0.000569	mg/Kg	☼	07/27/23 13:35	07/28/23 18:12	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 18:12	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	☼	07/27/23 13:35	07/28/23 18:12	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				07/27/23 13:35	07/28/23 18:12	1
1,4-Difluorobenzene (Surr)	102		70 - 130				07/27/23 13:35	07/28/23 18:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00104	J	0.00403	0.00102	mg/Kg			07/31/23 10:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	150		50.6	15.2	mg/Kg			08/03/23 10:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.3	J B	50.6	15.2	mg/Kg	☼	07/31/23 08:29	08/02/23 22:37	1
Diesel Range Organics (Over C10-C28)	125	B	50.6	15.2	mg/Kg	☼	07/31/23 08:29	08/02/23 22:37	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.6	15.2	mg/Kg	☼	07/31/23 08:29	08/02/23 22:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				07/31/23 08:29	08/02/23 22:37	1
o-Terphenyl	90		70 - 130				07/31/23 08:29	08/02/23 22:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1840		25.6	2.03	mg/Kg	☼		07/26/23 09:48	5

Client Sample ID: B-63-S-2'-20230717
Date Collected: 07/17/23 14:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-34
Matrix: Solid
Percent Solids: 98.4

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg	☼	07/27/23 13:35	07/28/23 18:32	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg	☼	07/27/23 13:35	07/28/23 18:32	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg	☼	07/27/23 13:35	07/28/23 18:32	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 18:32	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	☼	07/27/23 13:35	07/28/23 18:32	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				07/27/23 13:35	07/28/23 18:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130				07/27/23 13:35	07/28/23 18:32	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-63-S-2'-20230717
Date Collected: 07/17/23 14:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-34
Matrix: Solid
Percent Solids: 98.4

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			07/31/23 10:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	392		50.8	15.2	mg/Kg			08/03/23 10:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.8	J	50.8	15.2	mg/Kg	✧	07/31/23 08:35	08/03/23 02:54	1
Diesel Range Organics (Over C10-C28)	322		50.8	15.2	mg/Kg	✧	07/31/23 08:35	08/03/23 02:54	1
Oil Range Organics (Over C28-C36)	44.0	J	50.8	15.2	mg/Kg	✧	07/31/23 08:35	08/03/23 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				07/31/23 08:35	08/03/23 02:54	1
o-Terphenyl	119		70 - 130				07/31/23 08:35	08/03/23 02:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		5.11	0.404	mg/Kg	✧		07/25/23 13:39	1

Client Sample ID: B-64-S-2'-20230717
Date Collected: 07/17/23 14:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-35
Matrix: Solid
Percent Solids: 98.0

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000395	U	0.00205	0.000395	mg/Kg	✧	07/27/23 13:35	07/28/23 18:52	1
Toluene	0.000722	J	0.00205	0.000468	mg/Kg	✧	07/27/23 13:35	07/28/23 18:52	1
Ethylbenzene	<0.000580	U	0.00205	0.000580	mg/Kg	✧	07/27/23 13:35	07/28/23 18:52	1
m-Xylene & p-Xylene	<0.00104	U	0.00411	0.00104	mg/Kg	✧	07/27/23 13:35	07/28/23 18:52	1
o-Xylene	<0.000353	U	0.00205	0.000353	mg/Kg	✧	07/27/23 13:35	07/28/23 18:52	1
Xylenes, Total	<0.00104	U	0.00411	0.00104	mg/Kg	✧	07/27/23 13:35	07/28/23 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				07/27/23 13:35	07/28/23 18:52	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/27/23 13:35	07/28/23 18:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00411	0.00104	mg/Kg			07/31/23 10:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	424		51.3	15.4	mg/Kg			08/03/23 10:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.5	J	51.3	15.4	mg/Kg	✧	07/31/23 08:35	08/03/23 03:15	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-64-S-2'-20230717

Lab Sample ID: 880-30948-35

Date Collected: 07/17/23 14:40

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.0

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)	352		51.3	15.4	mg/Kg	☆	07/31/23 08:35	08/03/23 03:15	1
Oil Range Organics (Over C28-C36)	46.3	J	51.3	15.4	mg/Kg	☆	07/31/23 08:35	08/03/23 03:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				07/31/23 08:35	08/03/23 03:15	1
o-Terphenyl	109		70 - 130				07/31/23 08:35	08/03/23 03:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1940		25.8	2.04	mg/Kg	☆		07/26/23 09:54	5

Client Sample ID: B-65-S-2'-20230717

Lab Sample ID: 880-30948-36

Date Collected: 07/17/23 14:50

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☆	07/27/23 13:35	07/28/23 19:13	1
Toluene	0.000895	J	0.00204	0.000466	mg/Kg	☆	07/27/23 13:35	07/28/23 19:13	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	☆	07/27/23 13:35	07/28/23 19:13	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☆	07/27/23 13:35	07/28/23 19:13	1
o-Xylene	<0.000351	U	0.00204	0.000351	mg/Kg	☆	07/27/23 13:35	07/28/23 19:13	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☆	07/27/23 13:35	07/28/23 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				07/27/23 13:35	07/28/23 19:13	1
1,4-Difluorobenzene (Surr)	103		70 - 130				07/27/23 13:35	07/28/23 19:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00409	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	177		51.0	15.3	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.0	15.3	mg/Kg	☆	07/31/23 08:35	08/03/23 00:03	1
Diesel Range Organics (Over C10-C28)	177		51.0	15.3	mg/Kg	☆	07/31/23 08:35	08/03/23 00:03	1
Oil Range Organics (Over C28-C36)	<15.3	U	51.0	15.3	mg/Kg	☆	07/31/23 08:35	08/03/23 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				07/31/23 08:35	08/03/23 00:03	1
o-Terphenyl	129		70 - 130				07/31/23 08:35	08/03/23 00:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		5.06	0.399	mg/Kg	☆		07/25/23 13:50	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-66-S-2'-20230717

Lab Sample ID: 880-30948-37

Date Collected: 07/17/23 15:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000391	U	0.00203	0.000391	mg/Kg	✱	07/27/23 13:35	07/28/23 19:33	1
Toluene	<0.000463	U	0.00203	0.000463	mg/Kg	✱	07/27/23 13:35	07/28/23 19:33	1
Ethylbenzene	<0.000574	U	0.00203	0.000574	mg/Kg	✱	07/27/23 13:35	07/28/23 19:33	1
m-Xylene & p-Xylene	<0.00103	U	0.00406	0.00103	mg/Kg	✱	07/27/23 13:35	07/28/23 19:33	1
o-Xylene	<0.000350	U	0.00203	0.000350	mg/Kg	✱	07/27/23 13:35	07/28/23 19:33	1
Xylenes, Total	<0.00103	U	0.00406	0.00103	mg/Kg	✱	07/27/23 13:35	07/28/23 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	07/27/23 13:35	07/28/23 19:33	1
1,4-Difluorobenzene (Surr)	106		70 - 130	07/27/23 13:35	07/28/23 19:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00406	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	323		51.1	15.3	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	41.2	J	51.1	15.3	mg/Kg	✱	07/31/23 08:35	08/03/23 03:36	1
Diesel Range Organics (Over C10-C28)	253		51.1	15.3	mg/Kg	✱	07/31/23 08:35	08/03/23 03:36	1
Oil Range Organics (Over C28-C36)	28.8	J	51.1	15.3	mg/Kg	✱	07/31/23 08:35	08/03/23 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	261	S1+	70 - 130	07/31/23 08:35	08/03/23 03:36	1
o-Terphenyl	266	S1+	70 - 130	07/31/23 08:35	08/03/23 03:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2350		25.3	2.00	mg/Kg	✱		07/26/23 10:00	5

Client Sample ID: B-67-S-2'-20230717

Lab Sample ID: 880-30948-38

Date Collected: 07/17/23 15:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 97.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000985	J	0.00206	0.000397	mg/Kg	✱	07/27/23 13:35	07/28/23 19:54	1
Toluene	0.00344		0.00206	0.000470	mg/Kg	✱	07/27/23 13:35	07/28/23 19:54	1
Ethylbenzene	0.000890	J	0.00206	0.000582	mg/Kg	✱	07/27/23 13:35	07/28/23 19:54	1
m-Xylene & p-Xylene	<0.00104	U	0.00412	0.00104	mg/Kg	✱	07/27/23 13:35	07/28/23 19:54	1
o-Xylene	0.000605	J	0.00206	0.000354	mg/Kg	✱	07/27/23 13:35	07/28/23 19:54	1
Xylenes, Total	<0.00104	U	0.00412	0.00104	mg/Kg	✱	07/27/23 13:35	07/28/23 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/27/23 13:35	07/28/23 19:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130	07/27/23 13:35	07/28/23 19:54	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-67-S-2'-20230717

Lab Sample ID: 880-30948-38

Date Collected: 07/17/23 15:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 97.9

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00592		0.00412	0.00104	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	137		51.1	15.3	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.1	15.3	mg/Kg	✱	07/31/23 08:35	08/03/23 03:58	1
Diesel Range Organics (Over C10-C28)	137		51.1	15.3	mg/Kg	✱	07/31/23 08:35	08/03/23 03:58	1
Oil Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	✱	07/31/23 08:35	08/03/23 03:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				07/31/23 08:35	08/03/23 03:58	1
o-Terphenyl	129		70 - 130				07/31/23 08:35	08/03/23 03:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	786		5.10	0.403	mg/Kg	✱		07/25/23 14:00	1

Client Sample ID: B-68-S-2'-20230717

Lab Sample ID: 880-30948-39

Date Collected: 07/17/23 15:20

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00105	J	0.00202	0.000389	mg/Kg	✱	07/27/23 13:35	07/28/23 20:14	1
Toluene	0.00163	J	0.00202	0.000461	mg/Kg	✱	07/27/23 13:35	07/28/23 20:14	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg	✱	07/27/23 13:35	07/28/23 20:14	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	✱	07/27/23 13:35	07/28/23 20:14	1
o-Xylene	<0.000348	U	0.00202	0.000348	mg/Kg	✱	07/27/23 13:35	07/28/23 20:14	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	✱	07/27/23 13:35	07/28/23 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				07/27/23 13:35	07/28/23 20:14	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/27/23 13:35	07/28/23 20:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00268	J	0.00404	0.00102	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	444		50.6	15.2	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.4	J	50.6	15.2	mg/Kg	✱	07/31/23 08:35	08/03/23 02:32	1
Diesel Range Organics (Over C10-C28)	359		50.6	15.2	mg/Kg	✱	07/31/23 08:35	08/03/23 02:32	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-68-S-2'-20230717

Lab Sample ID: 880-30948-39

Date Collected: 07/17/23 15:20

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	40.5	J	50.6	15.2	mg/Kg	☆	07/31/23 08:35	08/03/23 02:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				07/31/23 08:35	08/03/23 02:32	1
o-Terphenyl	119		70 - 130				07/31/23 08:35	08/03/23 02:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	549		5.05	0.399	mg/Kg	☆		07/25/23 14:06	1

Client Sample ID: B-69-S-2'-20230717

Lab Sample ID: 880-30948-40

Date Collected: 07/17/23 15:30

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00110	J	0.00204	0.000393	mg/Kg	☆	07/27/23 13:35	07/28/23 20:34	1
Toluene	0.00104	J	0.00204	0.000466	mg/Kg	☆	07/27/23 13:35	07/28/23 20:34	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	☆	07/27/23 13:35	07/28/23 20:34	1
m-Xylene & p-Xylene	<0.00103	U	0.00408	0.00103	mg/Kg	☆	07/27/23 13:35	07/28/23 20:34	1
o-Xylene	0.000486	J	0.00204	0.000351	mg/Kg	☆	07/27/23 13:35	07/28/23 20:34	1
Xylenes, Total	<0.00103	U	0.00408	0.00103	mg/Kg	☆	07/27/23 13:35	07/28/23 20:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				07/27/23 13:35	07/28/23 20:34	1
1,4-Difluorobenzene (Surr)	110		70 - 130				07/27/23 13:35	07/28/23 20:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00263	J	0.00408	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	109		50.6	15.2	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.9	J F1 F2	50.6	15.2	mg/Kg	☆	07/31/23 08:35	08/02/23 20:06	1
Diesel Range Organics (Over C10-C28)	81.9	F1 F2	50.6	15.2	mg/Kg	☆	07/31/23 08:35	08/02/23 20:06	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.6	15.2	mg/Kg	☆	07/31/23 08:35	08/02/23 20:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				07/31/23 08:35	08/02/23 20:06	1
o-Terphenyl	108		70 - 130				07/31/23 08:35	08/02/23 20:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		5.13	0.405	mg/Kg	☆		07/25/23 14:11	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-70-S-2'-20230717

Lab Sample ID: 880-30948-41

Date Collected: 07/17/23 15:40

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000438	U	0.00228	0.000438	mg/Kg	✧	07/28/23 09:41	07/28/23 13:23	1
Toluene	<0.000519	U	0.00228	0.000519	mg/Kg	✧	07/28/23 09:41	07/28/23 13:23	1
Ethylbenzene	<0.000643	U	0.00228	0.000643	mg/Kg	✧	07/28/23 09:41	07/28/23 13:23	1
m-Xylene & p-Xylene	<0.00115	U	0.00455	0.00115	mg/Kg	✧	07/28/23 09:41	07/28/23 13:23	1
o-Xylene	<0.000391	U	0.00228	0.000391	mg/Kg	✧	07/28/23 09:41	07/28/23 13:23	1
Xylenes, Total	<0.00115	U	0.00455	0.00115	mg/Kg	✧	07/28/23 09:41	07/28/23 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/28/23 09:41	07/28/23 13:23	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/28/23 09:41	07/28/23 13:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00115	U	0.00455	0.00115	mg/Kg			07/31/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	189		57.2	17.2	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.0	J	57.2	17.2	mg/Kg	✧	07/31/23 08:35	08/02/23 22:59	1
Diesel Range Organics (Over C10-C28)	156		57.2	17.2	mg/Kg	✧	07/31/23 08:35	08/02/23 22:59	1
Oil Range Organics (Over C28-C36)	<17.2	U	57.2	17.2	mg/Kg	✧	07/31/23 08:35	08/02/23 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	07/31/23 08:35	08/02/23 22:59	1
o-Terphenyl	122		70 - 130	07/31/23 08:35	08/02/23 22:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2420		28.4	2.25	mg/Kg	✧		07/22/23 06:40	5

Client Sample ID: B-71-S-2'-20230717

Lab Sample ID: 880-30948-42

Date Collected: 07/17/23 15:50

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 97.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000392	U	0.00203	0.000392	mg/Kg	✧	07/28/23 09:41	07/28/23 13:44	1
Toluene	<0.000464	U	0.00203	0.000464	mg/Kg	✧	07/28/23 09:41	07/28/23 13:44	1
Ethylbenzene	<0.000575	U	0.00203	0.000575	mg/Kg	✧	07/28/23 09:41	07/28/23 13:44	1
m-Xylene & p-Xylene	<0.00103	U	0.00407	0.00103	mg/Kg	✧	07/28/23 09:41	07/28/23 13:44	1
o-Xylene	<0.000350	U	0.00203	0.000350	mg/Kg	✧	07/28/23 09:41	07/28/23 13:44	1
Xylenes, Total	<0.00103	U	0.00407	0.00103	mg/Kg	✧	07/28/23 09:41	07/28/23 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	07/28/23 09:41	07/28/23 13:44	1
1,4-Difluorobenzene (Surr)	113		70 - 130	07/28/23 09:41	07/28/23 13:44	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-71-S-2'-20230717

Lab Sample ID: 880-30948-42

Date Collected: 07/17/23 15:50

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 97.9

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00407	0.00103	mg/Kg			07/31/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	187		50.6	15.2	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.6	15.2	mg/Kg	✱	07/31/23 08:35	08/02/23 23:20	1
Diesel Range Organics (Over C10-C28)	167		50.6	15.2	mg/Kg	✱	07/31/23 08:35	08/02/23 23:20	1
Oil Range Organics (Over C28-C36)	20.3	J	50.6	15.2	mg/Kg	✱	07/31/23 08:35	08/02/23 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				07/31/23 08:35	08/02/23 23:20	1
o-Terphenyl	132	S1+	70 - 130				07/31/23 08:35	08/02/23 23:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630		25.6	2.02	mg/Kg	✱		07/22/23 06:25	5

Client Sample ID: B-72-S-2'-20230717

Lab Sample ID: 880-30948-43

Date Collected: 07/17/23 16:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	✱	07/28/23 09:41	07/28/23 14:04	1
Toluene	<0.000466	U	0.00204	0.000466	mg/Kg	✱	07/28/23 09:41	07/28/23 14:04	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	✱	07/28/23 09:41	07/28/23 14:04	1
m-Xylene & p-Xylene	<0.00103	U	0.00408	0.00103	mg/Kg	✱	07/28/23 09:41	07/28/23 14:04	1
o-Xylene	<0.000351	U	0.00204	0.000351	mg/Kg	✱	07/28/23 09:41	07/28/23 14:04	1
Xylenes, Total	<0.00103	U	0.00408	0.00103	mg/Kg	✱	07/28/23 09:41	07/28/23 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				07/28/23 09:41	07/28/23 14:04	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/28/23 09:41	07/28/23 14:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00408	0.00103	mg/Kg			07/31/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	269		50.8	15.2	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	43.1	J	50.8	15.2	mg/Kg	✱	07/31/23 08:35	08/02/23 23:41	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-72-S-2'-20230717

Lab Sample ID: 880-30948-43

Date Collected: 07/17/23 16:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 97.8

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)	204		50.8	15.2	mg/Kg	☆	07/31/23 08:35	08/02/23 23:41	1
Oil Range Organics (Over C28-C36)	21.9	J	50.8	15.2	mg/Kg	☆	07/31/23 08:35	08/02/23 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				07/31/23 08:35	08/02/23 23:41	1
o-Terphenyl	131	S1+	70 - 130				07/31/23 08:35	08/02/23 23:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	906		25.8	2.04	mg/Kg	☆		07/22/23 06:30	5

Client Sample ID: B--73S-2'-20230717

Lab Sample ID: 880-30948-44

Date Collected: 07/17/23 16:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000390	U	0.00202	0.000390	mg/Kg	☆	07/28/23 09:41	07/28/23 14:25	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg	☆	07/28/23 09:41	07/28/23 14:25	1
Ethylbenzene	<0.000572	U	0.00202	0.000572	mg/Kg	☆	07/28/23 09:41	07/28/23 14:25	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	☆	07/28/23 09:41	07/28/23 14:25	1
o-Xylene	<0.000348	U	0.00202	0.000348	mg/Kg	☆	07/28/23 09:41	07/28/23 14:25	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	☆	07/28/23 09:41	07/28/23 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				07/28/23 09:41	07/28/23 14:25	1
1,4-Difluorobenzene (Surr)	104		70 - 130				07/28/23 09:41	07/28/23 14:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00405	0.00102	mg/Kg			07/31/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	387		51.3	15.4	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.3	15.4	mg/Kg	☆	07/31/23 08:35	08/03/23 02:11	1
Diesel Range Organics (Over C10-C28)	349		51.3	15.4	mg/Kg	☆	07/31/23 08:35	08/03/23 02:11	1
Oil Range Organics (Over C28-C36)	37.8	J	51.3	15.4	mg/Kg	☆	07/31/23 08:35	08/03/23 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				07/31/23 08:35	08/03/23 02:11	1
o-Terphenyl	129		70 - 130				07/31/23 08:35	08/03/23 02:11	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B--73S-2'-20230717
Date Collected: 07/17/23 16:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-44
Matrix: Solid
Percent Solids: 98.0

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		25.4	2.01	mg/Kg	☼		07/22/23 06:35	5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-30948-1	B-30-S-2'-20230717	147 S1+	93
880-30948-1 MS	B-30-S-2'-20230717	113	92
880-30948-1 MSD	B-30-S-2'-20230717	124	91
880-30948-2	B-31-S-2'-20230717	128	90
880-30948-3	B-32-S-2'-20230717	128	92
880-30948-4	B-33-S-2'-20230717	122	82
880-30948-5	B-34-S-2'-20230717	142 S1+	90
880-30948-6	B-35-S-2'-20230717	15 S1-	95
880-30948-7	B-36-S-2'-20230717	131 S1+	87
880-30948-8	B-37-S-2'-20230717	137 S1+	96
880-30948-9	B-38-S-2'-20230717	131 S1+	86
880-30948-10	B-39-S-2'-20230717	132 S1+	96
880-30948-11	B-40-S-2'-20230717	124	81
880-30948-12	B-41S-2'-20230717	148 S1+	93
880-30948-13	B-42-S-2'-20230717	124	91
880-30948-14	B-43-S-2'-20230717	146 S1+	93
880-30948-15	B-44-S-2'-20230717	123	88
880-30948-16	B-45-S-2'-20230717	131 S1+	87
880-30948-17	B-46-S-2'-20230717	143 S1+	98
880-30948-18	B-47-S-2'-20230717	133 S1+	96
880-30948-19	B-48-S-2'-20230717	141 S1+	96
880-30948-20	B-49-S-2'-20230717	139 S1+	100
880-30948-21	B-50-S-2'-20230717	82	97
880-30948-21 MS	B-50-S-2'-20230717	91	97
880-30948-21 MSD	B-50-S-2'-20230717	98	97
880-30948-22	B-51-S-2'-20230717	95	105
880-30948-23	B-52-S-2'-20230717	83	101
880-30948-24	B-53-S-2'-20230717	94	101
880-30948-25	B-54-S-2'-20230717	87	99
880-30948-26	B-55-S-2'-20230717	87	101
880-30948-27	B-56-S-2'-20230717	96	104
880-30948-28	B-57-S-2'-20230717	95	101
880-30948-29	B-58-S-2'-20230717	94	99
880-30948-30	B-59-S-2'-20230717	93	108
880-30948-31	B-60-S-2'-20230717	76	100
880-30948-32	B-61-S-2'-20230717	86	101
880-30948-33	B-62-S-2'-20230717	93	102
880-30948-34	B-63-S-2'-20230717	85	99
880-30948-35	B-64-S-2'-20230717	98	101
880-30948-36	B-65-S-2'-20230717	89	103
880-30948-37	B-66-S-2'-20230717	93	106
880-30948-38	B-67-S-2'-20230717	92	102
880-30948-39	B-68-S-2'-20230717	96	107
880-30948-40	B-69-S-2'-20230717	93	110
880-30948-41	B-70-S-2'-20230717	112	108
880-30948-42	B-71-S-2'-20230717	114	113
880-30948-43	B-72-S-2'-20230717	108	107
880-30948-44	B--73S-2'-20230717	108	104
LCS 880-58638/1-A	Lab Control Sample	128	92

Eurofins Midland

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-58656/1-A	Lab Control Sample	100	96
LCS 880-58702/1-A	Lab Control Sample	119	98
LCSD 880-58638/2-A	Lab Control Sample Dup	111	98
LCSD 880-58656/2-A	Lab Control Sample Dup	99	97
LCSD 880-58702/2-A	Lab Control Sample Dup	120	98
MB 880-58538/5-A	Method Blank	74	93
MB 880-58638/5-A	Method Blank	69 S1-	80
MB 880-58656/5-A	Method Blank	91	123
MB 880-58702/5-A	Method Blank	98	90
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-30948-1	B-30-S-2'-20230717	139 S1+	117
880-30948-2	B-31-S-2'-20230717	161 S1+	142 S1+
880-30948-3	B-32-S-2'-20230717	152 S1+	131 S1+
880-30948-4	B-33-S-2'-20230717	143 S1+	118
880-30948-5	B-34-S-2'-20230717	138 S1+	120
880-30948-6	B-35-S-2'-20230717	144 S1+	128
880-30948-7	B-36-S-2'-20230717	145 S1+	123
880-30948-8	B-37-S-2'-20230717	135 S1+	112
880-30948-9	B-38-S-2'-20230717	148 S1+	129
880-30948-10	B-39-S-2'-20230717	138 S1+	115
880-30948-11	B-40-S-2'-20230717	132 S1+	111
880-30948-12	B-41S-2'-20230717	79	82
880-30948-13	B-42-S-2'-20230717	77	76
880-30948-14	B-43-S-2'-20230717	158 S1+	131 S1+
880-30948-15	B-44-S-2'-20230717	144 S1+	114
880-30948-15 MS	B-44-S-2'-20230717	135 S1+	100
880-30948-15 MSD	B-44-S-2'-20230717	122	87
880-30948-16	B-45-S-2'-20230717	145 S1+	116
880-30948-17	B-46-S-2'-20230717	131 S1+	110
880-30948-18	B-47-S-2'-20230717	116	94
880-30948-19	B-48-S-2'-20230717	115	93
880-30948-20	B-49-S-2'-20230717	124	102
880-30948-21	B-50-S-2'-20230717	132 S1+	111
880-30948-22	B-51-S-2'-20230717	124	102
880-30948-23	B-52-S-2'-20230717	130	106
880-30948-24	B-53-S-2'-20230717	127	104
880-30948-25	B-54-S-2'-20230717	148 S1+	121
880-30948-26	B-55-S-2'-20230717	118	97
880-30948-27	B-56-S-2'-20230717	125	102
880-30948-28	B-57-S-2'-20230717	126	110
880-30948-29	B-58-S-2'-20230717	114	94

Eurofins Midland

Surrogate Summary

Client: ARCADIS US Inc

Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1

SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-30948-30	B-59-S-2'-20230717	128	103
880-30948-31	B-60-S-2'-20230717	128	103
880-30948-32	B-61-S-2'-20230717	125	102
880-30948-33	B-62-S-2'-20230717	114	90
880-30948-34	B-63-S-2'-20230717	118	119
880-30948-35	B-64-S-2'-20230717	110	109
880-30948-36	B-65-S-2'-20230717	122	129
880-30948-37	B-66-S-2'-20230717	261 S1+	266 S1+
880-30948-38	B-67-S-2'-20230717	125	129
880-30948-39	B-68-S-2'-20230717	117	119
880-30948-40	B-69-S-2'-20230717	103	108
880-30948-40 MS	B-69-S-2'-20230717	2035 S1+	2112 S1+
880-30948-40 MSD	B-69-S-2'-20230717	1863 S1+	1881 S1+
880-30948-41	B-70-S-2'-20230717	115	122
880-30948-42	B-71-S-2'-20230717	123	132 S1+
880-30948-43	B-72-S-2'-20230717	124	131 S1+
880-30948-44	B--73S-2'-20230717	128	129
LCS 880-58652/2-A	Lab Control Sample	105	105
LCS 880-58767/2-A	Lab Control Sample	98	96
LCS 880-58804/2-A	Lab Control Sample	87	88
LCS 880-58806/2-A	Lab Control Sample	81	90
LCSD 880-58652/3-A	Lab Control Sample Dup	111	102
LCSD 880-58767/3-A	Lab Control Sample Dup	96	93
LCSD 880-58804/3-A	Lab Control Sample Dup	92	92
LCSD 880-58806/3-A	Lab Control Sample Dup	79	89
MB 880-58652/1-A	Method Blank	166 S1+	158 S1+
MB 880-58767/1-A	Method Blank	91	101
MB 880-58804/1-A	Method Blank	197 S1+	166 S1+
MB 880-58806/1-A	Method Blank	181 S1+	199 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58538/5-A

Matrix: Solid

Analysis Batch: 58621

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/26/23 09:42	07/27/23 11:54	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/26/23 09:42	07/27/23 11:54	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/26/23 09:42	07/27/23 11:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/26/23 09:42	07/27/23 11:54	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/26/23 09:42	07/27/23 11:54	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/26/23 09:42	07/27/23 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	07/26/23 09:42	07/27/23 11:54	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/26/23 09:42	07/27/23 11:54	1

Lab Sample ID: MB 880-58638/5-A

Matrix: Solid

Analysis Batch: 58621

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0004358	J	0.00200	0.000385	mg/Kg		07/27/23 09:19	07/28/23 01:12	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/27/23 09:19	07/28/23 01:12	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/27/23 09:19	07/28/23 01:12	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/27/23 09:19	07/28/23 01:12	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/27/23 09:19	07/28/23 01:12	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/27/23 09:19	07/28/23 01:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	07/27/23 09:19	07/28/23 01:12	1
1,4-Difluorobenzene (Surr)	80		70 - 130	07/27/23 09:19	07/28/23 01:12	1

Lab Sample ID: LCS 880-58638/1-A

Matrix: Solid

Analysis Batch: 58621

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58638

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1115		mg/Kg		112	70 - 130
Toluene	0.100	0.1154		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.1309	*+	mg/Kg		131	70 - 130
m-Xylene & p-Xylene	0.200	0.2397		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1181		mg/Kg		118	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-58638/2-A

Matrix: Solid

Analysis Batch: 58621

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58638

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1144		mg/Kg		114	70 - 130	3	35

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-58638/2-A

Matrix: Solid

Analysis Batch: 58621

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58638

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.1040		mg/Kg		104	70 - 130		10	35
Ethylbenzene	0.100	0.1231		mg/Kg		123	70 - 130		6	35
m-Xylene & p-Xylene	0.200	0.2292		mg/Kg		115	70 - 130		4	35
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130		4	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-30948-1 MS

Matrix: Solid

Analysis Batch: 58621

Client Sample ID: B-30-S-2'-20230717

Prep Type: Total/NA

Prep Batch: 58638

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	0.000406	J B	0.101	0.07802		mg/Kg	⚡	77	70 - 130	
Toluene	<0.000462	U	0.101	0.08108		mg/Kg	⚡	80	70 - 130	
Ethylbenzene	<0.000572	U *+	0.101	0.08316		mg/Kg	⚡	82	70 - 130	
m-Xylene & p-Xylene	<0.00102	U	0.202	0.1493		mg/Kg	⚡	74	70 - 130	
o-Xylene	<0.000349	U	0.101	0.07554		mg/Kg	⚡	75	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-30948-1 MSD

Matrix: Solid

Analysis Batch: 58621

Client Sample ID: B-30-S-2'-20230717

Prep Type: Total/NA

Prep Batch: 58638

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	0.000406	J B	0.101	0.08846		mg/Kg	⚡	87	70 - 130		13	35
Toluene	<0.000462	U	0.101	0.09436		mg/Kg	⚡	94	70 - 130		15	35
Ethylbenzene	<0.000572	U *+	0.101	0.09821		mg/Kg	⚡	97	70 - 130		17	35
m-Xylene & p-Xylene	<0.00102	U	0.202	0.1781		mg/Kg	⚡	88	70 - 130		18	35
o-Xylene	<0.000349	U	0.101	0.08676		mg/Kg	⚡	86	70 - 130		14	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: MB 880-58656/5-A

Matrix: Solid

Analysis Batch: 58691

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58656

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/27/23 13:35	07/28/23 12:06	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/27/23 13:35	07/28/23 12:06	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/27/23 13:35	07/28/23 12:06	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/27/23 13:35	07/28/23 12:06	1

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-58656/5-A

Matrix: Solid

Analysis Batch: 58691

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58656

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/27/23 13:35	07/28/23 12:06	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/27/23 13:35	07/28/23 12:06	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	91		70 - 130	07/27/23 13:35	07/28/23 12:06	1			
1,4-Difluorobenzene (Surr)	123		70 - 130	07/27/23 13:35	07/28/23 12:06	1			

Lab Sample ID: LCS 880-58656/1-A

Matrix: Solid

Analysis Batch: 58691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1042		mg/Kg		104	70 - 130
Toluene	0.100	0.1004		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1005		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2145		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130

Lab Sample ID: LCSD 880-58656/2-A

Matrix: Solid

Analysis Batch: 58691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58656

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.1091		mg/Kg		109	70 - 130	5	35
Toluene			0.100	0.1002		mg/Kg		100	70 - 130	0	35
Ethylbenzene			0.100	0.1006		mg/Kg		101	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2166		mg/Kg		108	70 - 130	1	35
o-Xylene			0.100	0.1039		mg/Kg		104	70 - 130	1	35
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	99		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

Lab Sample ID: 880-30948-21 MS

Matrix: Solid

Analysis Batch: 58691

Client Sample ID: B-50-S-2'-20230717

Prep Type: Total/NA

Prep Batch: 58656

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<0.000518	U	0.135	0.1433		mg/Kg	☼	106	70 - 130
Toluene	0.000779	J	0.135	0.1354		mg/Kg	☼	100	70 - 130
Ethylbenzene	<0.000760	U	0.135	0.1252		mg/Kg	☼	93	70 - 130
m-Xylene & p-Xylene	<0.00136	U	0.270	0.2658		mg/Kg	☼	99	70 - 130
o-Xylene	0.000833	J	0.135	0.1272		mg/Kg	☼	94	70 - 130

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-30948-21 MS

Matrix: Solid

Analysis Batch: 58691

Client Sample ID: B-50-S-2'-20230717

Prep Type: Total/NA

Prep Batch: 58656

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-30948-21 MSD

Matrix: Solid

Analysis Batch: 58691

Client Sample ID: B-50-S-2'-20230717

Prep Type: Total/NA

Prep Batch: 58656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000518	U	0.135	0.1504		mg/Kg	✱	111	70 - 130	5	35
Toluene	0.000779	J	0.135	0.1267		mg/Kg	✱	93	70 - 130	7	35
Ethylbenzene	<0.000760	U	0.135	0.1222		mg/Kg	✱	91	70 - 130	2	35
m-Xylene & p-Xylene	<0.00136	U	0.270	0.2694		mg/Kg	✱	100	70 - 130	1	35
o-Xylene	0.000833	J	0.135	0.1278		mg/Kg	✱	94	70 - 130	0	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-58702/5-A

Matrix: Solid

Analysis Batch: 58692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/28/23 09:41	07/28/23 11:38	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	98		70 - 130	07/28/23 09:41	07/28/23 11:38	1			
1,4-Difluorobenzene (Surr)	90		70 - 130	07/28/23 09:41	07/28/23 11:38	1			

Lab Sample ID: LCS 880-58702/1-A

Matrix: Solid

Analysis Batch: 58692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09809		mg/Kg		98	70 - 130
Toluene	0.100	0.1115		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2123		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1058		mg/Kg		106	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-58702/1-A
Matrix: Solid
Analysis Batch: 58692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58702

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-58702/2-A
Matrix: Solid
Analysis Batch: 58692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58702

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1041		mg/Kg		104	70 - 130	6	35
Toluene	0.100	0.1167		mg/Kg		117	70 - 130	5	35
Ethylbenzene	0.100	0.1097		mg/Kg		110	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2134		mg/Kg		107	70 - 130	1	35
o-Xylene	0.100	0.1067		mg/Kg		107	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-58652/1-A
Matrix: Solid
Analysis Batch: 58684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:54	07/28/23 19:43	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:54	07/28/23 19:43	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:54	07/28/23 19:43	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	166	S1+	70 - 130	07/27/23 11:54	07/28/23 19:43	1			
o-Terphenyl	158	S1+	70 - 130	07/27/23 11:54	07/28/23 19:43	1			

Lab Sample ID: LCS 880-58652/2-A
Matrix: Solid
Analysis Batch: 58684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58652

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	868.8		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	920.7		mg/Kg		92	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	105		70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-58652/3-A

Matrix: Solid

Analysis Batch: 58684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58652

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	929.0		mg/Kg		93	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	999.8		mg/Kg		100	70 - 130	8	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	102		70 - 130						

Lab Sample ID: MB 880-58767/1-A

Matrix: Solid

Analysis Batch: 58798

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58767

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/28/23 17:25	07/30/23 07:40	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/28/23 17:25	07/30/23 07:40	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/28/23 17:25	07/30/23 07:40	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/28/23 17:25	07/30/23 07:40	1
o-Terphenyl	101		70 - 130				07/28/23 17:25	07/30/23 07:40	1

Lab Sample ID: LCS 880-58767/2-A

Matrix: Solid

Analysis Batch: 58798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58767

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	728.0		mg/Kg		73	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	994.0		mg/Kg		99	70 - 130		
Surrogate	%Recovery	LCS Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	96		70 - 130						

Lab Sample ID: LCSD 880-58767/3-A

Matrix: Solid

Analysis Batch: 58798

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58767

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	708.3		mg/Kg		71	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	920.6		mg/Kg		92	70 - 130	8	20

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-58767/3-A
Matrix: Solid
Analysis Batch: 58798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58767

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: MB 880-58804/1-A
Matrix: Solid
Analysis Batch: 59067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58804

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	23.00	J	50.0	15.0	mg/Kg		07/31/23 08:29	08/02/23 19:00	1	
Diesel Range Organics (Over C10-C28)	24.25	J	50.0	15.0	mg/Kg		07/31/23 08:29	08/02/23 19:00	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/31/23 08:29	08/02/23 19:00	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	197	S1+	70 - 130				07/31/23 08:29	08/02/23 19:00	1	
o-Terphenyl	166	S1+	70 - 130				07/31/23 08:29	08/02/23 19:00	1	

Lab Sample ID: LCS 880-58804/2-A
Matrix: Solid
Analysis Batch: 59067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	888.4		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	861.3		mg/Kg		86	70 - 130		
Surrogate		LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane		87		70 - 130					
o-Terphenyl		88		70 - 130					

Lab Sample ID: LCSD 880-58804/3-A
Matrix: Solid
Analysis Batch: 59067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58804

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	955.4		mg/Kg		96	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	967.7		mg/Kg		97	70 - 130	12	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
1-Chlorooctane		92		70 - 130					
o-Terphenyl		92		70 - 130					

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-30948-15 MS

Matrix: Solid

Analysis Batch: 59067

Client Sample ID: B-44-S-2'-20230717

Prep Type: Total/NA

Prep Batch: 58804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.9	J B	1010	1052		mg/Kg	☼	102	70 - 130
Diesel Range Organics (Over C10-C28)	60.9	B	1010	1294		mg/Kg	☼	122	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	135	S1+	70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: 880-30948-15 MSD

Matrix: Solid

Analysis Batch: 59067

Client Sample ID: B-44-S-2'-20230717

Prep Type: Total/NA

Prep Batch: 58804

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	25.9	J B	1010	895.2		mg/Kg	☼	86	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	60.9	B	1010	1142		mg/Kg	☼	107	70 - 130	12	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	122		70 - 130								
o-Terphenyl	87		70 - 130								

Lab Sample ID: MB 880-58806/1-A

Matrix: Solid

Analysis Batch: 59069

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/31/23 08:34	08/02/23 19:00	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/31/23 08:34	08/02/23 19:00	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/31/23 08:34	08/02/23 19:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	181	S1+	70 - 130				07/31/23 08:34	08/02/23 19:00	1
o-Terphenyl	199	S1+	70 - 130				07/31/23 08:34	08/02/23 19:00	1

Lab Sample ID: LCS 880-58806/2-A

Matrix: Solid

Analysis Batch: 59069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	896.8		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	908.4		mg/Kg		91	70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-58806/2-A
Matrix: Solid
Analysis Batch: 59069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58806

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: LCSD 880-58806/3-A
Matrix: Solid
Analysis Batch: 59069

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58806

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	830.6		mg/Kg		83	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	880.7		mg/Kg		88	70 - 130	3	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-Chlorooctane	79										
o-Terphenyl	89										

Lab Sample ID: 880-30948-40 MS
Matrix: Solid
Analysis Batch: 59069

Client Sample ID: B-69-S-2'-20230717
Prep Type: Total/NA
Prep Batch: 58806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	26.9	J F1 F2	1010	853.5		mg/Kg	✧	82	70 - 130		
Diesel Range Organics (Over C10-C28)	81.9	F1 F2	1010	124.8	F1	mg/Kg	✧	4	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-Chlorooctane	2035	S1+									
o-Terphenyl	2112	S1+									

Lab Sample ID: 880-30948-40 MSD
Matrix: Solid
Analysis Batch: 59069

Client Sample ID: B-69-S-2'-20230717
Prep Type: Total/NA
Prep Batch: 58806

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	26.9	J F1 F2	1010	467.6	F1 F2	mg/Kg	✧	44	70 - 130	58	20
Diesel Range Organics (Over C10-C28)	81.9	F1 F2	1010	94.11	F1 F2	mg/Kg	✧	1	70 - 130	28	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-Chlorooctane	1863	S1+									
o-Terphenyl	1881	S1+									

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58053/1-A

Matrix: Solid

Analysis Batch: 58288

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/22/23 04:11	1

Lab Sample ID: LCS 880-58053/2-A

Matrix: Solid

Analysis Batch: 58288

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.8		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-58053/3-A

Matrix: Solid

Analysis Batch: 58288

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.2		mg/Kg		95	90 - 110	0	20

Lab Sample ID: MB 880-58051/1-A

Matrix: Solid

Analysis Batch: 58466

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/25/23 11:01	1

Lab Sample ID: LCS 880-58051/2-A

Matrix: Solid

Analysis Batch: 58466

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	231.8		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-58051/3-A

Matrix: Solid

Analysis Batch: 58466

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	230.6		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 880-30948-21 MS

Matrix: Solid

Analysis Batch: 58466

Client Sample ID: B-50-S-2'-20230717

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	478	F1	340	770.8	F1	mg/Kg	✱	86	90 - 110

Lab Sample ID: 880-30948-21 MSD

Matrix: Solid

Analysis Batch: 58466

Client Sample ID: B-50-S-2'-20230717

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	478	F1	340	793.2		mg/Kg	✱	93	90 - 110	3	20

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-30948-31 MS

Matrix: Solid

Analysis Batch: 58466

Client Sample ID: B-60-S-2'-20230717

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	764	F1	254	925.9	F1	mg/Kg	✧	64	90 - 110

Lab Sample ID: 880-30948-31 MSD

Matrix: Solid

Analysis Batch: 58466

Client Sample ID: B-60-S-2'-20230717

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	764	F1	254	931.1	F1	mg/Kg	✧	66	90 - 110	1	20

Lab Sample ID: MB 880-58050/1-A

Matrix: Solid

Analysis Batch: 58467

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/25/23 08:43	1

Lab Sample ID: LCS 880-58050/2-A

Matrix: Solid

Analysis Batch: 58467

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.7		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-58050/3-A

Matrix: Solid

Analysis Batch: 58467

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	242.2		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-30948-1 MS

Matrix: Solid

Analysis Batch: 58467

Client Sample ID: B-30-S-2'-20230717

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1090		1270	2285		mg/Kg	✧	94	90 - 110

Lab Sample ID: 880-30948-1 MSD

Matrix: Solid

Analysis Batch: 58467

Client Sample ID: B-30-S-2'-20230717

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1090		1270	2273		mg/Kg	✧	93	90 - 110	1	20

Lab Sample ID: 880-30948-11 MS

Matrix: Solid

Analysis Batch: 58467

Client Sample ID: B-40-S-2'-20230717

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1170		1260	2354		mg/Kg	✧	94	90 - 110

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-30948-11 MSD					Client Sample ID: B-40-S-2'-20230717							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 58467												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	1170		1260	2358		mg/Kg	☼	94	90 - 110	0	20	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 58538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58538/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 58621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	8021B	58638
MB 880-58538/5-A	Method Blank	Total/NA	Solid	8021B	58538
MB 880-58638/5-A	Method Blank	Total/NA	Solid	8021B	58638
LCS 880-58638/1-A	Lab Control Sample	Total/NA	Solid	8021B	58638
LCSD 880-58638/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58638
880-30948-1 MS	B-30-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-1 MSD	B-30-S-2'-20230717	Total/NA	Solid	8021B	58638

Prep Batch: 58638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	5030B	
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	5030B	

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC VOA (Continued)

Prep Batch: 58638 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	5030B	
MB 880-58638/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-58638/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-58638/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-30948-1 MS	B-30-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-1 MSD	B-30-S-2'-20230717	Total/NA	Solid	5030B	

Prep Batch: 58656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	5030B	
MB 880-58656/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-58656/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-58656/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-30948-21 MS	B-50-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-21 MSD	B-50-S-2'-20230717	Total/NA	Solid	5030B	

Analysis Batch: 58691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	8021B	58656

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 58691 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	8021B	58656
MB 880-58656/5-A	Method Blank	Total/NA	Solid	8021B	58656
LCS 880-58656/1-A	Lab Control Sample	Total/NA	Solid	8021B	58656
LCSD 880-58656/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58656
880-30948-21 MS	B-50-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-21 MSD	B-50-S-2'-20230717	Total/NA	Solid	8021B	58656

Analysis Batch: 58692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	8021B	58702
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	8021B	58702
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	8021B	58702
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	8021B	58702
MB 880-58702/5-A	Method Blank	Total/NA	Solid	8021B	58702
LCS 880-58702/1-A	Lab Control Sample	Total/NA	Solid	8021B	58702
LCSD 880-58702/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58702

Prep Batch: 58702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	5030B	
MB 880-58702/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-58702/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-58702/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 58739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 58739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	8015NM Prep	
MB 880-58652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	8015B NM	58652

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 58684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	8015B NM	58652
MB 880-58652/1-A	Method Blank	Total/NA	Solid	8015B NM	58652
LCS 880-58652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58652
LCSD 880-58652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58652

Prep Batch: 58767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	8015NM Prep	
MB 880-58767/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58767/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58767/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	8015B NM	58767
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	8015B NM	58767
MB 880-58767/1-A	Method Blank	Total/NA	Solid	8015B NM	58767
LCS 880-58767/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58767
LCSD 880-58767/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58767

Prep Batch: 58804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 58804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	8015NM Prep	
MB 880-58804/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58804/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58804/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30948-15 MS	B-44-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-15 MSD	B-44-S-2'-20230717	Total/NA	Solid	8015NM Prep	

Prep Batch: 58806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	8015NM Prep	
MB 880-58806/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58806/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30948-40 MS	B-69-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-40 MSD	B-69-S-2'-20230717	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 58904 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	8015 NM	

Analysis Batch: 59067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	8015B NM	58804
MB 880-58804/1-A	Method Blank	Total/NA	Solid	8015B NM	58804
LCS 880-58804/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58804
LCSD 880-58804/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58804
880-30948-15 MS	B-44-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-15 MSD	B-44-S-2'-20230717	Total/NA	Solid	8015B NM	58804

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC Semi VOA

Analysis Batch: 59069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	8015B NM	58806
MB 880-58806/1-A	Method Blank	Total/NA	Solid	8015B NM	58806
LCS 880-58806/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58806
LCSD 880-58806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58806
880-30948-40 MS	B-69-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-40 MSD	B-69-S-2'-20230717	Total/NA	Solid	8015B NM	58806

HPLC/IC

Leach Batch: 58050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-2	B-31-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-3	B-32-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-4	B-33-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-5	B-34-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-6	B-35-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-7	B-36-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-8	B-37-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-9	B-38-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-10	B-39-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-11	B-40-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-12	B-41S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-13	B-42-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-14	B-43-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-15	B-44-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-16	B-45-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-17	B-46-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-18	B-47-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-19	B-48-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-20	B-49-S-2'-20230717	Soluble	Solid	DI Leach	
MB 880-58050/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58050/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58050/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30948-1 MS	B-30-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-1 MSD	B-30-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-11 MS	B-40-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-11 MSD	B-40-S-2'-20230717	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

HPLC/IC

Leach Batch: 58051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-21	B-50-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-22	B-51-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-23	B-52-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-24	B-53-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-25	B-54-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-26	B-55-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-27	B-56-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-28	B-57-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-29	B-58-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-30	B-59-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-31	B-60-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-32	B-61-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-33	B-62-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-34	B-63-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-35	B-64-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-36	B-65-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-37	B-66-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-38	B-67-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-39	B-68-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-40	B-69-S-2'-20230717	Soluble	Solid	DI Leach	
MB 880-58051/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58051/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58051/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30948-21 MS	B-50-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-21 MSD	B-50-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-31 MS	B-60-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-31 MSD	B-60-S-2'-20230717	Soluble	Solid	DI Leach	

Leach Batch: 58053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-41	B-70-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-42	B-71-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-43	B-72-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-44	B--73S-2'-20230717	Soluble	Solid	DI Leach	
MB 880-58053/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58053/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58053/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 58288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-41	B-70-S-2'-20230717	Soluble	Solid	300.0	58053
880-30948-42	B-71-S-2'-20230717	Soluble	Solid	300.0	58053
880-30948-43	B-72-S-2'-20230717	Soluble	Solid	300.0	58053
880-30948-44	B--73S-2'-20230717	Soluble	Solid	300.0	58053
MB 880-58053/1-A	Method Blank	Soluble	Solid	300.0	58053
LCS 880-58053/2-A	Lab Control Sample	Soluble	Solid	300.0	58053
LCSD 880-58053/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58053

Analysis Batch: 58466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-21	B-50-S-2'-20230717	Soluble	Solid	300.0	58051

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 58466 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-22	B-51-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-23	B-52-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-24	B-53-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-25	B-54-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-26	B-55-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-27	B-56-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-28	B-57-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-29	B-58-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-30	B-59-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-31	B-60-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-32	B-61-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-33	B-62-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-34	B-63-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-35	B-64-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-36	B-65-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-37	B-66-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-38	B-67-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-39	B-68-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-40	B-69-S-2'-20230717	Soluble	Solid	300.0	58051
MB 880-58051/1-A	Method Blank	Soluble	Solid	300.0	58051
LCS 880-58051/2-A	Lab Control Sample	Soluble	Solid	300.0	58051
LCSD 880-58051/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58051
880-30948-21 MS	B-50-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-21 MSD	B-50-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-31 MS	B-60-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-31 MSD	B-60-S-2'-20230717	Soluble	Solid	300.0	58051

Analysis Batch: 58467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-2	B-31-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-3	B-32-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-4	B-33-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-5	B-34-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-6	B-35-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-7	B-36-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-8	B-37-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-9	B-38-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-10	B-39-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-11	B-40-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-12	B-41S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-13	B-42-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-14	B-43-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-15	B-44-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-16	B-45-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-17	B-46-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-18	B-47-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-19	B-48-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-20	B-49-S-2'-20230717	Soluble	Solid	300.0	58050
MB 880-58050/1-A	Method Blank	Soluble	Solid	300.0	58050
LCS 880-58050/2-A	Lab Control Sample	Soluble	Solid	300.0	58050

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 58467 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-58050/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58050
880-30948-1 MS	B-30-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-1 MSD	B-30-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-11 MS	B-40-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-11 MSD	B-40-S-2'-20230717	Soluble	Solid	300.0	58050

General Chemistry

Analysis Batch: 58222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	D2216	
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	D2216	
MB 880-58222/1	Method Blank	Total/NA	Solid	D2216	
880-30948-1 DU	B-30-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-11 DU	B-40-S-2'-20230717	Total/NA	Solid	D2216	

Analysis Batch: 58223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	D2216	

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

General Chemistry (Continued)

Analysis Batch: 58223 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	D2216	
MB 880-58223/1	Method Blank	Total/NA	Solid	D2216	
880-30948-22 DU	B-51-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-31 DU	B-60-S-2'-20230717	Total/NA	Solid	D2216	

Analysis Batch: 58227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	D2216	
MB 880-58227/1	Method Blank	Total/NA	Solid	D2216	
880-30948-42 DU	B-71-S-2'-20230717	Total/NA	Solid	D2216	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-30-S-2'-20230717
Date Collected: 07/17/23 09:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-30-S-2'-20230717
Date Collected: 07/17/23 09:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-1
Matrix: Solid
Percent Solids: 98.5

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 01:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 03:32	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 08:58	CH	EET MID

Client Sample ID: B-31-S-2'-20230717
Date Collected: 07/17/23 09:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-31-S-2'-20230717
Date Collected: 07/17/23 09:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-2
Matrix: Solid
Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 02:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 04:14	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			58467	07/25/23 09:13	CH	EET MID

Client Sample ID: B-32-S-2'-20230717
Date Collected: 07/17/23 09:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-3
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	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-32-S-2'-20230717
Date Collected: 07/17/23 09:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-3
Matrix: Solid
Percent Solids: 98.1

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 02:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 04:36	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 09:18	CH	EET MID

Client Sample ID: B-33-S-2'-20230717
Date Collected: 07/17/23 09:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-4
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	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-33-S-2'-20230717
Date Collected: 07/17/23 09:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-4
Matrix: Solid
Percent Solids: 97.7

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 02:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 02:29	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 09:23	CH	EET MID

Client Sample ID: B-34-S-2'-20230717
Date Collected: 07/17/23 09:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-34-S-2'-20230717
Date Collected: 07/17/23 09:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-5
Matrix: Solid
Percent Solids: 98.7

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 03:23	AJ	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-34-S-2'-20230717

Lab Sample ID: 880-30948-5

Date Collected: 07/17/23 09:40

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 03:11	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 09:28	CH	EET MID

Client Sample ID: B-35-S-2'-20230717

Lab Sample ID: 880-30948-6

Date Collected: 07/17/23 09:50

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-35-S-2'-20230717

Lab Sample ID: 880-30948-6

Date Collected: 07/17/23 09:50

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 75.0

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 03:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 01:26	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			58467	07/25/23 09:43	CH	EET MID

Client Sample ID: B-36-S-2'-20230717

Lab Sample ID: 880-30948-7

Date Collected: 07/17/23 10:00

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-36-S-2'-20230717

Lab Sample ID: 880-30948-7

Date Collected: 07/17/23 10:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 04:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 03:53	AJ	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-36-S-2'-20230717**Lab Sample ID: 880-30948-7****Date Collected: 07/17/23 10:00****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 96.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 09:48	CH	EET MID

Client Sample ID: B-37-S-2'-20230717**Lab Sample ID: 880-30948-8****Date Collected: 07/17/23 10:10****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-37-S-2'-20230717**Lab Sample ID: 880-30948-8****Date Collected: 07/17/23 10:10****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 98.5**

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 04:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 02:50	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 09:53	CH	EET MID

Client Sample ID: B-38-S-2'-20230717**Lab Sample ID: 880-30948-9****Date Collected: 07/17/23 10:20****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-38-S-2'-20230717**Lab Sample ID: 880-30948-9****Date Collected: 07/17/23 10:20****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 89.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 05:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 00:43	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			58467	07/25/23 09:58	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-39-S-2'-20230717

Lab Sample ID: 880-30948-10

Date Collected: 07/17/23 10:30

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-39-S-2'-20230717

Lab Sample ID: 880-30948-10

Date Collected: 07/17/23 10:30

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 05:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 02:08	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 10:03	CH	EET MID

Client Sample ID: B-40-S-2'-20230717

Lab Sample ID: 880-30948-11

Date Collected: 07/17/23 10:40

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-40-S-2'-20230717

Lab Sample ID: 880-30948-11

Date Collected: 07/17/23 10:40

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.6

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 07:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 01:47	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 10:08	CH	EET MID

Client Sample ID: B-41S-2'-20230717

Lab Sample ID: 880-30948-12

Date Collected: 07/17/23 10:50

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:38	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-41S-2'-20230717
Date Collected: 07/17/23 10:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-12
Matrix: Solid
Percent Solids: 98.5

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 07:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58767	07/28/23 17:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58798	07/31/23 06:37	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 10:22	CH	EET MID

Client Sample ID: B-42-S-2'-20230717
Date Collected: 07/17/23 11:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:38	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-42-S-2'-20230717
Date Collected: 07/17/23 11:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-13
Matrix: Solid
Percent Solids: 97.8

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 08:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58767	07/28/23 17:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58798	07/31/23 06:58	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 10:27	CH	EET MID

Client Sample ID: B-43-S-2'-20230717
Date Collected: 07/17/23 11:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-43-S-2'-20230717
Date Collected: 07/17/23 11:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-14
Matrix: Solid
Percent Solids: 76.0

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 09:05	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-43-S-2'-20230717
Date Collected: 07/17/23 11:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-14
Matrix: Solid
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 21:11	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			58467	07/25/23 10:42	CH	EET MID

Client Sample ID: B-44-S-2'-20230717
Date Collected: 07/17/23 11:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-44-S-2'-20230717
Date Collected: 07/17/23 11:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-15
Matrix: Solid
Percent Solids: 98.5

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 09:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 20:06	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			58467	07/25/23 10:47	CH	EET MID

Client Sample ID: B-45-S-2'-20230717
Date Collected: 07/17/23 11:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-45-S-2'-20230717
Date Collected: 07/17/23 11:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-16
Matrix: Solid
Percent Solids: 98.2

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 09:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 03:58	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-45-S-2'-20230717**Lab Sample ID: 880-30948-16****Date Collected: 07/17/23 11:30****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 98.2**

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	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 10:52	CH	EET MID

Client Sample ID: B-46-S-2'-20230717**Lab Sample ID: 880-30948-17****Date Collected: 07/17/23 11:40****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-46-S-2'-20230717**Lab Sample ID: 880-30948-17****Date Collected: 07/17/23 11:40****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 75.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 10:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 21:33	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			58467	07/25/23 10:57	CH	EET MID

Client Sample ID: B-47-S-2'-20230717**Lab Sample ID: 880-30948-18****Date Collected: 07/17/23 11:50****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-47-S-2'-20230717**Lab Sample ID: 880-30948-18****Date Collected: 07/17/23 11:50****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 98.7**

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 02:32	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 11:02	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-48-S-2'-20230717

Lab Sample ID: 880-30948-19

Date Collected: 07/17/23 12:00

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-48-S-2'-20230717

Lab Sample ID: 880-30948-19

Date Collected: 07/17/23 12:00

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.7

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 11:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 02:54	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 11:07	CH	EET MID

Client Sample ID: B-49-S-2'-20230717

Lab Sample ID: 880-30948-20

Date Collected: 07/17/23 12:10

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-49-S-2'-20230717

Lab Sample ID: 880-30948-20

Date Collected: 07/17/23 12:10

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 98.6

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	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 11:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 03:15	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 11:12	CH	EET MID

Client Sample ID: B-50-S-2'-20230717

Lab Sample ID: 880-30948-21

Date Collected: 07/17/23 12:20

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-50-S-2'-20230717**Lab Sample ID: 880-30948-21****Date Collected: 07/17/23 12:20****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 73.9**

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 12:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 21:54	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 11:47	CH	EET MID

Client Sample ID: B-51-S-2'-20230717**Lab Sample ID: 880-30948-22****Date Collected: 07/17/23 12:30****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-51-S-2'-20230717**Lab Sample ID: 880-30948-22****Date Collected: 07/17/23 12:30****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 97.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 12:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 01:28	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:03	CH	EET MID

Client Sample ID: B-52-S-2'-20230717**Lab Sample ID: 880-30948-23****Date Collected: 07/17/23 12:40****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-52-S-2'-20230717**Lab Sample ID: 880-30948-23****Date Collected: 07/17/23 12:40****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 98.1**

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 13:16	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-52-S-2'-20230717
Date Collected: 07/17/23 12:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-23
Matrix: Solid
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 01:49	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:08	CH	EET MID

Client Sample ID: B-53-S-2'-20230717
Date Collected: 07/17/23 12:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-53-S-2'-20230717
Date Collected: 07/17/23 12:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-24
Matrix: Solid
Percent Solids: 98.5

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 22:59	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:14	CH	EET MID

Client Sample ID: B-54-S-2'-20230717
Date Collected: 07/17/23 13:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-54-S-2'-20230717
Date Collected: 07/17/23 13:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-25
Matrix: Solid
Percent Solids: 97.1

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 13:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 00:03	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-54-S-2'-20230717**Lab Sample ID: 880-30948-25****Date Collected: 07/17/23 13:00****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 97.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:19	CH	EET MID

Client Sample ID: B-55-S-2'-20230717**Lab Sample ID: 880-30948-26****Date Collected: 07/17/23 13:10****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-55-S-2'-20230717**Lab Sample ID: 880-30948-26****Date Collected: 07/17/23 13:10****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 98.2**

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 14:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 02:11	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	58466	07/26/23 09:42	CH	EET MID

Client Sample ID: B-56-S-2'-20230717**Lab Sample ID: 880-30948-27****Date Collected: 07/17/23 13:20****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-56-S-2'-20230717**Lab Sample ID: 880-30948-27****Date Collected: 07/17/23 13:20****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 99.0**

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 14:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 01:07	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:40	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-57-S-2'-20230717

Lab Sample ID: 880-30948-28

Date Collected: 07/17/23 13:30

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-57-S-2'-20230717

Lab Sample ID: 880-30948-28

Date Collected: 07/17/23 13:30

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 79.2

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 14:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 22:16	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:46	CH	EET MID

Client Sample ID: B-58-S-2'-20230717

Lab Sample ID: 880-30948-29

Date Collected: 07/17/23 13:40

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-58-S-2'-20230717

Lab Sample ID: 880-30948-29

Date Collected: 07/17/23 13:40

Matrix: Solid

Date Received: 07/19/23 11:55

Percent Solids: 0.9

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 15:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 03:36	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:51	CH	EET MID

Client Sample ID: B-59-S-2'-20230717

Lab Sample ID: 880-30948-30

Date Collected: 07/17/23 13:50

Matrix: Solid

Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-59-S-2'-20230717
Date Collected: 07/17/23 13:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-30
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 15:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 23:20	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:56	CH	EET MID

Client Sample ID: B-60-S-2'-20230717
Date Collected: 07/17/23 14:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-60-S-2'-20230717
Date Collected: 07/17/23 14:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-31
Matrix: Solid
Percent Solids: 98.2

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 17:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 00:45	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 13:02	CH	EET MID

Client Sample ID: B-61-S-2'-20230717
Date Collected: 07/17/23 14:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-61-S-2'-20230717
Date Collected: 07/17/23 14:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-32
Matrix: Solid
Percent Solids: 98.1

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 17:51	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-61-S-2'-20230717
Date Collected: 07/17/23 14:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-32
Matrix: Solid
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 23:41	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 13:18	CH	EET MID

Client Sample ID: B-62-S-2'-20230717
Date Collected: 07/17/23 14:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-62-S-2'-20230717
Date Collected: 07/17/23 14:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-33
Matrix: Solid
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 18:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 22:37	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	58466	07/26/23 09:48	CH	EET MID

Client Sample ID: B-63-S-2'-20230717
Date Collected: 07/17/23 14:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-63-S-2'-20230717
Date Collected: 07/17/23 14:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-34
Matrix: Solid
Percent Solids: 98.4

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 18:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 02:54	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-63-S-2'-20230717**Lab Sample ID: 880-30948-34****Date Collected: 07/17/23 14:30****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 98.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 13:39	CH	EET MID

Client Sample ID: B-64-S-2'-20230717**Lab Sample ID: 880-30948-35****Date Collected: 07/17/23 14:40****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-64-S-2'-20230717**Lab Sample ID: 880-30948-35****Date Collected: 07/17/23 14:40****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 98.0**

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 18:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 03:15	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	58466	07/26/23 09:54	CH	EET MID

Client Sample ID: B-65-S-2'-20230717**Lab Sample ID: 880-30948-36****Date Collected: 07/17/23 14:50****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-65-S-2'-20230717**Lab Sample ID: 880-30948-36****Date Collected: 07/17/23 14:50****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 98.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 19:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 00:03	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 13:50	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-66-S-2'-20230717**Lab Sample ID: 880-30948-37****Date Collected: 07/17/23 15:00****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-66-S-2'-20230717**Lab Sample ID: 880-30948-37****Date Collected: 07/17/23 15:00****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 98.6**

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 19:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 03:36	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	58466	07/26/23 10:00	CH	EET MID

Client Sample ID: B-67-S-2'-20230717**Lab Sample ID: 880-30948-38****Date Collected: 07/17/23 15:10****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-67-S-2'-20230717**Lab Sample ID: 880-30948-38****Date Collected: 07/17/23 15:10****Matrix: Solid****Date Received: 07/19/23 11:55****Percent Solids: 97.9**

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 19:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 03:58	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 14:00	CH	EET MID

Client Sample ID: B-68-S-2'-20230717**Lab Sample ID: 880-30948-39****Date Collected: 07/17/23 15:20****Matrix: Solid****Date Received: 07/19/23 11:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-68-S-2'-20230717
Date Collected: 07/17/23 15:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-39
Matrix: Solid
Percent Solids: 98.4

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 20:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 02:32	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 14:06	CH	EET MID

Client Sample ID: B-69-S-2'-20230717
Date Collected: 07/17/23 15:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-69-S-2'-20230717
Date Collected: 07/17/23 15:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-40
Matrix: Solid
Percent Solids: 98.3

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	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 20:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/02/23 20:06	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 14:11	CH	EET MID

Client Sample ID: B-70-S-2'-20230717
Date Collected: 07/17/23 15:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58227	07/21/23 10:12	KS	EET MID

Client Sample ID: B-70-S-2'-20230717
Date Collected: 07/17/23 15:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-41
Matrix: Solid
Percent Solids: 87.0

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	58702	07/28/23 09:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58692	07/28/23 13:23	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-70-S-2'-20230717
Date Collected: 07/17/23 15:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-41
Matrix: Solid
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/02/23 22:59	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58053	07/19/23 14:08	KS	EET MID
Soluble	Analysis	300.0		5			58288	07/22/23 06:40	CH	EET MID

Client Sample ID: B-71-S-2'-20230717
Date Collected: 07/17/23 15:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58227	07/21/23 10:12	KS	EET MID

Client Sample ID: B-71-S-2'-20230717
Date Collected: 07/17/23 15:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-42
Matrix: Solid
Percent Solids: 97.9

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	58702	07/28/23 09:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58692	07/28/23 13:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/02/23 23:20	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58053	07/19/23 14:08	KS	EET MID
Soluble	Analysis	300.0		5			58288	07/22/23 06:25	CH	EET MID

Client Sample ID: B-72-S-2'-20230717
Date Collected: 07/17/23 16:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58227	07/21/23 10:12	KS	EET MID

Client Sample ID: B-72-S-2'-20230717
Date Collected: 07/17/23 16:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-43
Matrix: Solid
Percent Solids: 97.8

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	58702	07/28/23 09:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58692	07/28/23 14:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/02/23 23:41	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-72-S-2'-20230717
Date Collected: 07/17/23 16:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-43
Matrix: Solid
Percent Solids: 97.8

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	58053	07/19/23 14:08	KS	EET MID
Soluble	Analysis	300.0		5			58288	07/22/23 06:30	CH	EET MID

Client Sample ID: B--73S-2'-20230717
Date Collected: 07/17/23 16:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58227	07/21/23 10:12	KS	EET MID

Client Sample ID: B--73S-2'-20230717
Date Collected: 07/17/23 16:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-44
Matrix: Solid
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	58702	07/28/23 09:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58692	07/28/23 14:25	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 02:11	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58053	07/19/23 14:08	KS	EET MID
Soluble	Analysis	300.0		5			58288	07/22/23 06:35	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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
D2216		Solid	Percent Solids
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5030B	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

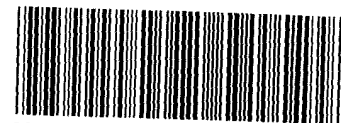
Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30948-1	B-30-S-2'-20230717	Solid	07/17/23 09:00	07/19/23 11:55
880-30948-2	B-31-S-2'-20230717	Solid	07/17/23 09:10	07/19/23 11:55
880-30948-3	B-32-S-2'-20230717	Solid	07/17/23 09:20	07/19/23 11:55
880-30948-4	B-33-S-2'-20230717	Solid	07/17/23 09:30	07/19/23 11:55
880-30948-5	B-34-S-2'-20230717	Solid	07/17/23 09:40	07/19/23 11:55
880-30948-6	B-35-S-2'-20230717	Solid	07/17/23 09:50	07/19/23 11:55
880-30948-7	B-36-S-2'-20230717	Solid	07/17/23 10:00	07/19/23 11:55
880-30948-8	B-37-S-2'-20230717	Solid	07/17/23 10:10	07/19/23 11:55
880-30948-9	B-38-S-2'-20230717	Solid	07/17/23 10:20	07/19/23 11:55
880-30948-10	B-39-S-2'-20230717	Solid	07/17/23 10:30	07/19/23 11:55
880-30948-11	B-40-S-2'-20230717	Solid	07/17/23 10:40	07/19/23 11:55
880-30948-12	B-41S-2'-20230717	Solid	07/17/23 10:50	07/19/23 11:55
880-30948-13	B-42-S-2'-20230717	Solid	07/17/23 11:00	07/19/23 11:55
880-30948-14	B-43-S-2'-20230717	Solid	07/17/23 11:10	07/19/23 11:55
880-30948-15	B-44-S-2'-20230717	Solid	07/17/23 11:20	07/19/23 11:55
880-30948-16	B-45-S-2'-20230717	Solid	07/17/23 11:30	07/19/23 11:55
880-30948-17	B-46-S-2'-20230717	Solid	07/17/23 11:40	07/19/23 11:55
880-30948-18	B-47-S-2'-20230717	Solid	07/17/23 11:50	07/19/23 11:55
880-30948-19	B-48-S-2'-20230717	Solid	07/17/23 12:00	07/19/23 11:55
880-30948-20	B-49-S-2'-20230717	Solid	07/17/23 12:10	07/19/23 11:55
880-30948-21	B-50-S-2'-20230717	Solid	07/17/23 12:20	07/19/23 11:55
880-30948-22	B-51-S-2'-20230717	Solid	07/17/23 12:30	07/19/23 11:55
880-30948-23	B-52-S-2'-20230717	Solid	07/17/23 12:40	07/19/23 11:55
880-30948-24	B-53-S-2'-20230717	Solid	07/17/23 12:50	07/19/23 11:55
880-30948-25	B-54-S-2'-20230717	Solid	07/17/23 13:00	07/19/23 11:55
880-30948-26	B-55-S-2'-20230717	Solid	07/17/23 13:10	07/19/23 11:55
880-30948-27	B-56-S-2'-20230717	Solid	07/17/23 13:20	07/19/23 11:55
880-30948-28	B-57-S-2'-20230717	Solid	07/17/23 13:30	07/19/23 11:55
880-30948-29	B-58-S-2'-20230717	Solid	07/17/23 13:40	07/19/23 11:55
880-30948-30	B-59-S-2'-20230717	Solid	07/17/23 13:50	07/19/23 11:55
880-30948-31	B-60-S-2'-20230717	Solid	07/17/23 14:00	07/19/23 11:55
880-30948-32	B-61-S-2'-20230717	Solid	07/17/23 14:10	07/19/23 11:55
880-30948-33	B-62-S-2'-20230717	Solid	07/17/23 14:20	07/19/23 11:55
880-30948-34	B-63-S-2'-20230717	Solid	07/17/23 14:30	07/19/23 11:55
880-30948-35	B-64-S-2'-20230717	Solid	07/17/23 14:40	07/19/23 11:55
880-30948-36	B-65-S-2'-20230717	Solid	07/17/23 14:50	07/19/23 11:55
880-30948-37	B-66-S-2'-20230717	Solid	07/17/23 15:00	07/19/23 11:55
880-30948-38	B-67-S-2'-20230717	Solid	07/17/23 15:10	07/19/23 11:55
880-30948-39	B-68-S-2'-20230717	Solid	07/17/23 15:20	07/19/23 11:55
880-30948-40	B-69-S-2'-20230717	Solid	07/17/23 15:30	07/19/23 11:55
880-30948-41	B-70-S-2'-20230717	Solid	07/17/23 15:40	07/19/23 11:55
880-30948-42	B-71-S-2'-20230717	Solid	07/17/23 15:50	07/19/23 11:55
880-30948-43	B-72-S-2'-20230717	Solid	07/17/23 16:00	07/19/23 11:55
880-30948-44	B--73S-2'-20230717	Solid	07/17/23 16:10	07/19/23 11:55

1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record



asting

8/3/2023

Client Information		Sampler: <u>Heath Boyd</u>		Lab PM: <u>Builes John</u>		Carrier T: <u>880-30948 Chain of Custody</u>	
Client Contact: <u>Justin Nixon</u>		Phone: <u>575-942-0292</u>		E-Mail: <u>John Builes@et eurofinsus.com</u>		State of Origin: <u>NM</u>	
Company: <u>ARCADIS U S Inc.</u>		PWSID: <u></u>		Analysis Requested: <u></u>		Page: <u>1 of 4</u>	
Address: <u>1004 North Big Spring Suite 300</u>		Due Date Requested: <u></u>		Job #		Preservation Codes	
City: <u>Midland</u>		TAT Requested (days): <u>Standard</u>		Total Number of Containers		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)	
State Zip: <u>TX 79701</u>		Compliance Project: ☐ Yes ☐ No		Field Filtered Sample (Yes or No)		Special Instructions/Note	
Phone: <u>432-296-9547(Tel)</u>		PO #: <u></u>		Perform MS/MSD (Yes or No)			
Email: <u>Justin Nixon@arcadis.com</u>		Purchase Order Requested: <u></u>		300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G			
Project Name: <u>Chevron Old Indian Draw Unit 001</u>		Project #: <u>88001630</u>					
Site: <u>Eddy County, NM</u>		SSOW#: <u></u>					
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		
				Preservation Code			
<u>B-30-S-2'-20230717</u>		<u>7/17/23</u>	<u>900</u>	<u>C</u>	<u>Solid</u>	<u>X</u>	
<u>B-31-S-2'-20230717</u>		<u></u>	<u>910</u>	<u></u>	<u>Solid</u>	<u>X</u>	
<u>B-32-S-2'-20230717</u>		<u></u>	<u>920</u>	<u></u>	<u>Solid</u>	<u>X</u>	
<u>B-33-S-2'-20230717</u>		<u></u>	<u>930</u>	<u></u>	<u>Solid</u>	<u>X</u>	
<u>B-34-S-2'-20230717</u>		<u></u>	<u>940</u>	<u></u>	<u>Solid</u>	<u>X</u>	
<u>B-35-S-2'-20230717</u>		<u></u>	<u>950</u>	<u></u>	<u>Solid</u>	<u>X</u>	
<u>B-36-S-2'-20230717</u>		<u></u>	<u>1000</u>	<u></u>	<u>Solid</u>	<u>X</u>	
<u>B-37-S-2'-20230717</u>		<u></u>	<u>1010</u>	<u></u>	<u>Solid</u>	<u>X</u>	
<u>B-38-S-2'-20230717</u>		<u></u>	<u>1020</u>	<u></u>	<u>Solid</u>	<u>X</u>	
<u>B-39-S-2'-20230717</u>		<u></u>	<u>1030</u>	<u></u>	<u>Solid</u>	<u>X</u>	
<u>B-40-S-2'-20230717</u>		<u></u>	<u>1040</u>	<u>X</u>	<u>Solid</u>	<u>X</u>	
Possible Hazard Identification							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological							
Deliverable Requested I II III IV Other (specify)				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
				☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>			
Special Instructions/QC Requirements							
Empty Kit Relinquished by:		Date		Time		Method of Shipment:	
Relinquished by: <u>BCox</u>		Date/Time: <u>7/18/23 856</u>		Company: <u>Arcadis</u>		Received by: <u>BCox</u>	
Relinquished by: <u>BCox</u>		Date/Time: <u>7-18-23 8.56</u>		Company: <u></u>		Date/Time: <u>7-18-23 856</u>	
Relinquished by: <u>BCox</u>		Date/Time: <u>7-18-23 8.56</u>		Company: <u></u>		Date/Time: <u>7-19-23 11:55</u>	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>0.5/0.2-0.3</u>			

Ver 01/16/2010

Environment Testing

Ver: 01/16/2010

1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins

Environment Testing

Client Information		Sampler: <i>JB</i>		Lab PM: Builes John		Carrier Tracking No(s)		COC No: 880-5081-624 12	
Client Contact: Justin Nixon		Phone: 575-942-0292		E-Mail: John Builes@et.eurofinsus.com		State of Origin: NM		Page 42 of 32 3 of 4	
Company: ARCADIS US Inc.		PWSID:		Analysis Requested					
Address: 1004 North Big Spring Suite 300		Due Date Requested:		Total Number of Containers 300_ORGFM_280, 8015MOD_NM, 8021B, MOISTURE_2540G					
City: Midland		TAT Requested (days): 5 f analand							
State: TX 79701		Compliance Project: ☐ Yes ☐ No							
Phone: 432-296-9547(Tel)		PO #: Purchase Order Requested							
Email: Justin Nixon@arcadis.com		WO #:							
Project Name: Chevron Old Indian Draw Unit 001		Project #: 88001630		Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T - TSP Dodecahydrate I Ice U - Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)					
Site: Eddy County, NM		SSOV#:							
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)	Special Instructions/Note	
B-52-S-2'-20230717		7/17/23	1240	C	Solid		X		
B-53-S-2'-20230717			1250		Solid		X		
B-54-S-2'-20230717			1300		Solid		P		
B-55-S-2'-20230717			1310		Solid		P		
B-56-S-2'-20230717			1320		Solid		P		
B-57-S-2'-20230717			1330		Solid		P		
B-58-S-2'-20230717			1340		Solid		P		
B-59-S-2'-20230717			1350		Solid		P		
B-60-S-2'-20230717			1400		Solid		X		
B-61-S-2'-20230717			1410		Solid		P		
B-62-S-2'-20230717			1420		Solid		P		
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						☐ 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: <i>JB</i>		Date/Time: 7-18-23 8:56		Company: Arcadis		Received by: <i>BC</i>		Date/Time: 7-18-23 8:56	
Relinquished by: <i>BC</i>		Date/Time: 7-18-23 8:56		Company:		Received by: <i>BC</i>		Date/Time: 7-19-23	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time: 7/19/23	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks.					

Ver: 01/16/2010

1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins

Environment Testing

30948

8/3/2023

Client Information		Sampler: <u>JB</u>		Lab PM: Builes John		Carrier Tracking No(s)		COC No. 880-5081-624 16	
Client Contact: Justin Nixon		Phone: 575-942-0292		E-Mail: John.Builes@et.eurofinsus.com		State of Origin: NM		Page: 32 of 32	
Company: ARCADIS U.S. Inc.		PWSID		Analysis Requested					
Address: 1004 North Big Spring Suite 300		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 300_ORGPM_28D 8015MOD_NM_8021B, MOISTURE_2540G					
City: Midland		TAT Requested (days): Standard							
State Zip: TX 79701		Compliance Project: ☐ Yes ☐ No							
Phone: 432-296-9547 (Tel)		PO #: Purchase Order Requested							
Email: Justin.Nixon@arcadis.com		WO #:							
Project Name: Chevron Old Indian Draw Unit 001		Project #: 88001630		Total Number of containers					
Site: Eddy County, NM		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)				
				Preservation Code					
B-63-S-2'-20230717		7/17/23	1430	C	Solid	X			
B-64-S-2'-20230717			1440		Solid	X			
B-65-S-2'-20230717			1450		Solid	X			
B-66-S-2'-20230717			1500		Solid	X			
B-67-S-2'-20230717			1510		Solid	X			
B-68-S-2'-20230717		X	1520	X	Solid	X			
B-69-S-2'-20230717			1530		Solid	X			
B-70-S-2'-20230717			1540		Solid	X			
B-71-S-2'-20230717			1550		Solid	X			
B-72-S-2'-20230717			1600		Solid	X			
B-73-S-2'-20230717		P	1610	P	Solid	X			
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					☐ 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: <u>JB</u>			Date/Time: 7/18/23 8:56	Company: Arcadis	Received by: <u>Builes</u>			Date/Time: 7-18-23 8:56	Company:
Relinquished by: <u>BOXX</u>			Date/Time: 7-18-23 8:50	Company:	Received by: <u>Builes</u>			Date/Time: 7-18-23 8:50	Company:
Relinquished by:			Date/Time:	Company:	Received by:			Date/Time:	Company:
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks.					

Ver: 01/12/2012

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Released to Imaging: 5/10/2024 8:51:20 AM

Released to Imaging: 5/10/2024 2:56:27 PM

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-30948-1
SDG Number: Eddy County, NM

Login Number: 30948

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701
Generated 8/18/2023 8:53:43 AM

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER Eddy County NM

JOB NUMBER

880-32136-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
8/18/2023 8:53:43 AM

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

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Laboratory Job ID: 880-32136-1
SDG: Eddy County NM

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Job ID: 880-32136-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-32136-1

Receipt

The sample was received on 8/16/2023 10:54 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-60364 and analytical batch 880-60348 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-60348 recovered below the lower control limit for o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-60348/33).

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-60420/5). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-60393 and analytical batch 880-60415 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: B-254-S-2'-20230815 (880-32136-1), (880-32136-A-1-C MS) and (880-32136-A-1-D MSD).

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Client Sample ID: B-254-S-2'-20230815

Lab Sample ID: 880-32136-1

Date Collected: 08/15/23 11:30

Matrix: Solid

Date Received: 08/16/23 10:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		08/16/23 13:22	08/17/23 08:18	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		08/16/23 13:22	08/17/23 08:18	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		08/16/23 13:22	08/17/23 08:18	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		08/16/23 13:22	08/17/23 08:18	1
o-Xylene	0.000525	J	0.00202	0.000347	mg/Kg		08/16/23 13:22	08/17/23 08:18	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		08/16/23 13:22	08/17/23 08:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	08/16/23 13:22	08/17/23 08:18	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/16/23 13:22	08/17/23 08:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			08/17/23 10:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	135		49.6	14.9	mg/Kg			08/18/23 09:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	37.0	J	49.6	14.9	mg/Kg		08/16/23 17:18	08/17/23 13:59	1
Diesel Range Organics (Over C10-C28)	97.7		49.6	14.9	mg/Kg		08/16/23 17:18	08/17/23 13:59	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/16/23 17:18	08/17/23 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	08/16/23 17:18	08/17/23 13:59	1
o-Terphenyl	98		70 - 130	08/16/23 17:18	08/17/23 13:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	667	F1	5.00	0.395	mg/Kg			08/16/23 22:43	1

Eurofins Midland

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-32136-1	B-254-S-2'-20230815	79	91
LCS 880-60386/1-A	Lab Control Sample	105	85
LCSD 880-60386/2-A	Lab Control Sample Dup	91	93
MB 880-60364/5-A	Method Blank	100	134 S1+
MB 880-60386/5-A	Method Blank	94	117
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-32136-1	B-254-S-2'-20230815	97	98
LCS 880-60398/2-A	Lab Control Sample	89	91
LCSD 880-60398/3-A	Lab Control Sample Dup	83	85
MB 880-60398/1-A	Method Blank	105	114
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60364/5-A

Matrix: Solid

Analysis Batch: 60348

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/16/23 09:58	08/16/23 14:42	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/16/23 09:58	08/16/23 14:42	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/16/23 09:58	08/16/23 14:42	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/16/23 09:58	08/16/23 14:42	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/16/23 09:58	08/16/23 14:42	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/16/23 09:58	08/16/23 14:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/16/23 09:58	08/16/23 14:42	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130	08/16/23 09:58	08/16/23 14:42	1

Lab Sample ID: MB 880-60386/5-A

Matrix: Solid

Analysis Batch: 60348

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		08/16/23 13:22	08/17/23 02:55	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		08/16/23 13:22	08/17/23 02:55	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		08/16/23 13:22	08/17/23 02:55	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		08/16/23 13:22	08/17/23 02:55	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		08/16/23 13:22	08/17/23 02:55	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		08/16/23 13:22	08/17/23 02:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	08/16/23 13:22	08/17/23 02:55	1
1,4-Difluorobenzene (Surr)	117		70 - 130	08/16/23 13:22	08/17/23 02:55	1

Lab Sample ID: LCS 880-60386/1-A

Matrix: Solid

Analysis Batch: 60348

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08546		mg/Kg		85	70 - 130
Toluene	0.100	0.08596		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.09135		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1799		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08588		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-60386/2-A

Matrix: Solid

Analysis Batch: 60348

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60386

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08361		mg/Kg		84	70 - 130	2	35

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-60386/2-A

Matrix: Solid

Analysis Batch: 60348

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60386

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.08451		mg/Kg		85	70 - 130		2	35
Ethylbenzene	0.100	0.08379		mg/Kg		84	70 - 130		9	35
m-Xylene & p-Xylene	0.200	0.1651		mg/Kg		83	70 - 130		9	35
o-Xylene	0.100	0.07664		mg/Kg		77	70 - 130		11	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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

Lab Sample ID: MB 880-60398/1-A

Matrix: Solid

Analysis Batch: 60420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60398

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		08/16/23 17:18	08/17/23 08:08	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		08/16/23 17:18	08/17/23 08:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/16/23 17:18	08/17/23 08:08	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	105		70 - 130	08/16/23 17:18	08/17/23 08:08	1
o-Terphenyl	114		70 - 130	08/16/23 17:18	08/17/23 08:08	1

Lab Sample ID: LCS 880-60398/2-A

Matrix: Solid

Analysis Batch: 60420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	809.0		mg/Kg		81	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	828.9		mg/Kg		83	70 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	89		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-60398/3-A

Matrix: Solid

Analysis Batch: 60420

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60398

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	827.6		mg/Kg		83	70 - 130		2	20
Diesel Range Organics (Over C10-C28)	1000	812.6		mg/Kg		81	70 - 130		2	20

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-60398/3-A

Matrix: Solid

Analysis Batch: 60420

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60398

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	83		70 - 130
o-Terphenyl	85		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60393/1-A

Matrix: Solid

Analysis Batch: 60415

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.395	U	5.00	0.395	mg/Kg			08/16/23 20:42	1

Lab Sample ID: LCS 880-60393/2-A

Matrix: Solid

Analysis Batch: 60415

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	254.8		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-60393/3-A

Matrix: Solid

Analysis Batch: 60415

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	256.0		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-32136-1 MS

Matrix: Solid

Analysis Batch: 60415

Client Sample ID: B-254-S-2'-20230815

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	667	F1	250	881.7	F1	mg/Kg		86	90 - 110		

Lab Sample ID: 880-32136-1 MSD

Matrix: Solid

Analysis Batch: 60415

Client Sample ID: B-254-S-2'-20230815

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	667	F1	250	884.7	F1	mg/Kg		87	90 - 110	0	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 60348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Total/NA	Solid	8021B	60386
MB 880-60364/5-A	Method Blank	Total/NA	Solid	8021B	60364
MB 880-60386/5-A	Method Blank	Total/NA	Solid	8021B	60386
LCS 880-60386/1-A	Lab Control Sample	Total/NA	Solid	8021B	60386
LCSD 880-60386/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60386

Prep Batch: 60364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60364/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 60386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Total/NA	Solid	5030B	
MB 880-60386/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-60386/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-60386/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 60450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Total/NA	Solid	8015NM Prep	
MB 880-60398/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60398/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Total/NA	Solid	8015B NM	60398
MB 880-60398/1-A	Method Blank	Total/NA	Solid	8015B NM	60398
LCS 880-60398/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60398
LCSD 880-60398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60398

Analysis Batch: 60550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 60393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Soluble	Solid	DI Leach	
MB 880-60393/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60393/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60393/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32136-1 MS	B-254-S-2'-20230815	Soluble	Solid	DI Leach	
880-32136-1 MSD	B-254-S-2'-20230815	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

HPLC/IC

Analysis Batch: 60415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Soluble	Solid	300.0	60393
MB 880-60393/1-A	Method Blank	Soluble	Solid	300.0	60393
LCS 880-60393/2-A	Lab Control Sample	Soluble	Solid	300.0	60393
LCSD 880-60393/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60393
880-32136-1 MS	B-254-S-2'-20230815	Soluble	Solid	300.0	60393
880-32136-1 MSD	B-254-S-2'-20230815	Soluble	Solid	300.0	60393

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Client Sample ID: B-254-S-2'-20230815
Date Collected: 08/15/23 11:30
Date Received: 08/16/23 10:54

Lab Sample ID: 880-32136-1
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	60386	08/16/23 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60348	08/17/23 08:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60450	08/17/23 10:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			60550	08/18/23 09:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60398	08/16/23 17:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60420	08/17/23 13:59	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	60393	08/16/23 16:20	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60415	08/16/23 22:43	SMC	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5030B	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 US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-32136-1	B-254-S-2'-20230815	Solid	08/15/23 11:30	08/16/23 10:54

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record



Environment Testing

32134

[illegible]

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-32136-1

SDG Number: Eddy County NM

Login Number: 32136

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Fax: 713 977 4620
www.arcadis.com

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

QUESTIONS

Action 331717

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	331717
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nJMW1334440905
Incident Name	NJMW1334440905 OLD INDIAN DRAW CTB @ 30-015-20918
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-015-20918] OLD INDIAN DRAW UNIT #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	OLD INDIAN DRAW CTB
Date Release Discovered	12/02/2013
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 80 BBL Recovered: 60 BBL Lost: 20 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 331717

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:	4323
	Action Number:	331717
	Action Type:	
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/10/2024
--	---

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QUESTIONS, Page 3

Action 331717

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	331717
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	Yes
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	58400
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	14900
GRO+DRO	(EPA SW-846 Method 8015M)	1890
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	07/04/2023
On what date will (or did) the final sampling or liner inspection occur	08/15/2023
On what date will (or was) the remediation complete(d)	09/25/2023
What is the estimated surface area (in square feet) that will be reclaimed	136500
What is the estimated volume (in cubic yards) that will be reclaimed	8232
What is the estimated surface area (in square feet) that will be remediated	136500
What is the estimated volume (in cubic yards) that will be remediated	8232

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 331717

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:	4323
	Action Number:	331717
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Sundance Services, Inc [fKJ1600527371]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/10/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 331717

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 331717
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6

Action 331717

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	331717
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	331720
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/15/2023
What was the (estimated) number of samples that were to be gathered	273
What was the sampling surface area in square feet	136500

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	136500
What was the total volume (cubic yards) remediated	8232
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	136500
What was the total volume (in cubic yards) reclaimed	8232
Summarize any additional remediation activities not included by answers (above)	Analytical results associated with recent remediation activities conducted in 2023 indicate that the horizontal and vertical extent of chloride, TPH, and BTEX impact in soil above NMAC screening standards for a site with depth the groundwater less than 50 feet bgs have been delineated both horizontally and vertically and excavated from the impacted area based on the approved variance.

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/10/2024
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District I

1625 N. French Dr., Hobbs, NM 88240
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District II

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District III

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District IV

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QUESTIONS, Page 7

Action 331717

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 331717
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	136500
What was the total volume of replacement material (in cubic yards) for this site	8232
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	09/23/2023
Summarize any additional reclamation activities not included by answers (above)	Upon receiving laboratory analytical results from the excavation confirmation soil samples confirming impacted soil over the applicable restoration closure limits had been removed laterally and excavated to the extent possible vertically down to the base rock layer, the lined 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. The excavated area within the affected pasture was topped with a topsoil similar to native surrounding pasture material and reseeded with a BLM-approved seed mixture on September 20, 2023.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/10/2024

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QUESTIONS, Page 8

Action 331717

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 331717
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 331717

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 331717
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/10/2024