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REMEDIATION PLAN

Water Disposal Flowline Release

Incident #nAPP2322554757

Eddy County, New Mexico

Unit A, Section 10, Township 17 South, Range 30 East

GPS Coordinates: 32.85551, -103.95222

Prepared For

MR NM Operating, LLC

Dallas, Texas

Prepared By

CDH Consulting, LLC

Thornton, Colorado

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May 21, 2025

Shelly Wells
Environmental Specialist
Advanced Environmental Bureau
EMNRD – Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

RE: Remediation Plan

Water Disposal Flowline Release
Incident #nAPP2322554757
Eddy County, New Mexico
Unit A, Section 10, Township 17 South, Range 30 East
GPS Coordinates: 32.85551, -103.95222

Shelly Wells,

CDH Consulting, LLC (CDH) on behalf of MR NM Operating, LLC (MR NM) presents this Remediation Closure Report for the above referenced location to the New Mexico Oil Conservation Division (OCD).

SITE INFORMATION

The Water Disposal Flowline Release (Site) occurred approximately 26 miles east of Artesia, New Mexico and 11 miles west of Maljamar, New Mexico (Figure 1). The legal location description is Unit Letter A, Section 10, Township 17 South, Range 30 East in Eddy County, New Mexico.

On July 31, 2023, the release was discovered exiting a polyethylene water disposal line by Cypress Natural Resources (CNR, parent company of MR NM) personnel at approximately 3:30 pm. The line was shut-in by 4:00 pm and repaired that evening. During repairs, a drag mark on the polyethylene line was determined to be the source of the release, likely damaged during line installation. Approximately 20 feet of polyethylene line was removed and replaced with new poly line. On July 31, 2023, a vacuum truck removed approximately 25 barrels of produced water from the ground surface. MR NM used the time calculated between the notification of the release, when the line was last driven, and the estimated rate through the flowline from CNR facilities to estimate the volume released (approximately 150 barrels). Recovered volumes were reported by the quantity removed by the vacuum truck. On August 15, 2023, a Form C-141 was submitted to the OCD detailing the initial response to the release. The initial C-141 is included in Attachment A.

During emergency response activities, produced water reached an open excavation adjacent to the pumpjack for the Federal R #002 (API #30-015-04170) operated by LLJ Ventures, LLC DBA Marker Oil & Gas in the downgradient direction relative to the release. Produced water was recovered from the open excavation via hydro excavation.



GROUNDWATER & SITE RANKING

There are no significant watercourses or other sensitive areas within specified distances of the release as defined by 19.15.29.12.C.(4) or within a ½- mile of the site. The New Mexico Office of the State Engineer (OSE) lists point of diversion (POD) RA-13319-POD1 located approximately 812 feet northeast of the release (Figure 1). The soil boring log for RA-13319-POD1 indicates the soil boring was advanced to 101 feet below ground surface (bgs) and was documented to be a “dry hole”.

As depth-to-groundwater near the release has been documented to be greater than 100 feet bgs, the closure criteria for soil deeper than 4 feet bgs is summarized below per 19.15.29.12 NMAC:

- Chloride - 20,000 milligrams per kilogram (mg/kg)
- Total petroleum hydrocarbons (TPH) including gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube organics (MRO) - 2,500 mg/kg
- GRO and DRO - 1,000 mg/kg
- Benzene, toluene, ethylbenzene, total xylenes (BTEX) - 50 mg/kg
- Benzene - 10 mg/kg

The top 4 feet of soil will be horizontally delineated to the reclamation standard summarized below per 19.15.29.12 NMAC and the top 4 feet of soil will be reclaimed to the criteria listed below per NMAC 19.15.29.13.D.(1).

- Chloride - 600 mg/kg
- TPH - 100 mg/kg
- BTEX - 50 mg/kg
- Benzene - 10 mg/kg

SITE CHARACTERIZATION

On October 10, 2023, CDH personnel were onsite to visually inspect the impacted area and collect a soil sample from the release point. Soil was observed to be a red, gravelly, fine sandy loam. CDH personnel collected SS04@0.5 from the release point to determine if the soil was impacted and analyzed for chloride per United States Environmental Protection Agency (EPA) Method 300.0, TPH (GRO+DRO+MRO) per EPA Method 8015, and BTEX per EPA Method 8021B. The release location and soil sample location are presented on Figure 2.

Laboratory analytical results were compared to the above-mentioned OCD criteria for the top 4 feet of soil. Analytical results indicate that TPH, benzene, and BTEX were below laboratory reporting limits in SS04@0.5. Chloride exceeded the OCD reclamation standard for the top 4 feet of soil (600 mg/kg) in SS04 with a concentration of 12,200 mg/kg per NMAC 19.15.29.13.D.(1). Laboratory analytical results are summarized in Table 1.



On April 18, 2024, CDH personnel were onsite to horizontally and vertically delineate chloride impacts. Soil samples were collected by stepping out approximately 20 feet in each cardinal direction relative to the release point (SS04). The soil samples were collected at 0.5 feet bgs to be field screened for chloride utilizing Hach Chloride QuanTab® Test Strips. If field screening indicated chloride concentrations were in-compliance with the OCD reclamation standard for the top 4 feet of soil (600 mg/kg), soil samples were collected at that location from depths of 0.5 feet, 2 feet, and 4 feet bgs to be submitted for laboratory analysis of chloride.

Field screening at soil sample locations SS01 (46 mg/kg), SS02 (50 mg/kg), and SS03 (504 mg/kg) indicated chloride concentrations were potentially in compliance with the OCD reclamation standard for the top 4 feet of soil (600 mg/kg); therefore, soil samples were collected at depths of 0.5 feet, 2 feet, and 4 feet at these locations (Figure 2). Field screening indicated elevated chloride concentrations 20 feet west (1,560 mg/kg), 40 feet west (1,680 mg/kg), and 60 feet west (1,560 mg/kg) of the release point (SS04). Field screening 80 feet west of the release point (SS04) indicated chloride was potentially in-compliance with the OCD reclamation standard for the top 4 feet of soil (600 mg/kg) with an estimated chloride concentration of 211 mg/kg. Soil samples were collected at soil sample location SS05 from depths of 0.5 feet, 2 feet, and 4 feet bgs. To vertically delineate elevated chloride identified in SS04@0.5, soil samples were collected at SS04@2.0 and SS04@4.0. Background soil samples were collected from BG01 (Figure 3) from depths of 0.5 feet, 2 feet, and 4 feet bgs. Soil samples were placed in laboratory-supplied 4-ounce glass jars, labeled, stored in a cooler on ice, and hand-delivered via standard chain-of-custody protocol to Envirotech of Farmington, New Mexico, for analysis of chloride per EPA Method 300.0. Laboratory analytical results are summarized in Table 1.

Laboratory analytical results indicated:

- SS01@0.5 (489 mg/kg) and SS02@0.5 (<20.0 mg/kg) were below the OCD reclamation standard for the top 4 feet of soil (600 mg/kg), successfully delineating horizontal chloride impacts to the north and east;
- Soil sample SS04@4.0 was in-compliance with the OCD Table I Closure Criteria (20,000 mg/kg) with a concentration of 13,900 mg/kg, successfully delineating vertical chloride impacts;
- Soil at sample location SS03 slightly exceeded the OCD reclamation standard for the top 4 feet of soil (600 mg/kg) at 0.5 feet (1,480 mg/kg), 2 feet (873 mg/kg), and 4 feet (719 mg/kg);
- Soil at sample location SS05 slightly exceeded the OCD reclamation standard for the top 4 feet of soil (600 mg/kg) at 0.5 feet (660 mg/kg), 2 feet (835 mg/kg), and 4 feet (856 mg/kg); and
- Background soil samples at BG01 were below the laboratory reporting limits at all depths.

On September 5, 2024, CDH personnel were onsite to collect soil samples from the area located between the MR NM produced water flowline release and the open excavation adjacent to the Federal R #002 (API #30-015-04170) operated by LLJ Ventures, LLC DBA Marker Oil & Gas. Soil samples were collected from SS06, SS07, and SS08 (Figure 2) to gather information to differentiate impacted soil associated with the MR NM flowline release and the Federal R #002 open excavation.



Laboratory analytical results at SS06 indicated chloride (695 mg/kg) exceeded the reclamation standard (600 mg/kg) at 6 inches bgs but was in-compliance with the remediation standard at 4 feet bgs (147 mg/kg). TPH, GRO, DRO, oil range organics (ORO), BTEX, and benzene were all below the laboratory reporting limits at SS06. At SS07, located 17 feet closer to the Federal R #002 open excavation, chloride (3,050 mg/kg) and TPH (2,070 mg/kg) at 6 inches bgs increased significantly. SS07 was in-compliance with the reclamation standard at 4 feet bgs for chloride (176 mg/kg) and TPH, GRO, DRO, ORO, BTEX, and benzene were all below the laboratory reporting limits. At SS08 chloride was in-compliance with the reclamation standard at 1-foot bgs (75.5 mg/kg) and 4 feet bgs (543 mg/kg) but exceeded the reclamation standard for TPH (100 mg/kg) due to elevated DRO (531 mg/kg). TPH (at 4 feet bgs), GRO, DRO, ORO, BTEX, and benzene were all below the laboratory reporting limits at SS08.

REMEDATION ACTIVITIES

On October 2, 2024, CDH and the OCD developed a clear and reasonable path forward regarding the LLJ Ventures, LLC DBA Marker Oil & Gas Federal R #002 wellhead release open excavation via Microsoft Teams. It was agreed that MR NM will remove 6 inches (approximately 2 cubic yards) in the vicinity of SS07 (Figure 2). No confirmation soil samples were to be collected from this area. MR NM agreed to collect confirmation soil samples for all OCD Table 1 Soil Standard constituents within the primary excavation area; however, should TPH or BTEX be encountered, MR NM would cease excavation in the applicable direction as this would indicate Federal R #002 wellhead release impacts were encountered. MR NM agreed to import topsoil to backfill the area located off-pad and off-road area (Figure 2). MR NM agreed to import non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg in accordance with 19.15.29.13.D.(1) NMAC as backfill material for on-pad and on-road areas.

The top 6 inches was scraped from the area located adjacent to sidewall SW04 (Figure 4). No confirmation soil samples were collected from this area. Per the OCD-approved Site Characterization & Remediation Plan, chloride impacted soil was excavated to 4 feet bgs to remove chloride impacted soil exceeding the OCD reclamation standard for the top 4 feet of soil (600 mg/kg). To confirm chloride impacted soil was successfully removed from the excavation and to complete horizontal delineation, one 5-point composite confirmation sample was collected for every 200 square feet of sidewall and one 5-point composite confirmation sample was collected from the floor of the excavation for every 400 square feet to be submitted for laboratory analysis. The confirmation samples were placed into laboratory-supplied 4-ounce glass jars, sealed headspace free, labeled, stored in a cooler on ice, and submitted to Eurofins of Carlsbad, New Mexico, under standard chain-of-custody protocol for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) per Environmental Protection Agency (EPA) Method 8021B, total petroleum hydrocarbons (TPH) per EPA Method 8015, and chloride per EPA Method 300.0.

Field screening indicated that chloride was elevated on the southwestern, northern, and southern sidewalls; therefore, the excavation was extended horizontally in those directions to remove the additional chloride impacted soil. The total volume of chloride impacted soil removed from the excavation was 988 cubic yards. Impacted soil was transported to R360 (fEEM0112340644) for offsite disposal. Figure 4 presents the final excavation extent and waste manifests are summarized in Attachment B.



All final confirmation soil samples collected from the sidewalls (SW01 through SW06) that extended from the ground surface to 4 feet bgs were in compliance with the OCD reclamation standard for the top 4 feet of soil (600 mg/kg). All final confirmation soil samples collected from the floor of the excavation at 4 feet bgs were in compliance with the OCD Table I Closure Criteria (20,000 mg/kg). Therefore, the excavation was backfilled with non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg in accordance with 19.15.29.13.D.(1) NMAC as backfill material for on-pad and on-road areas. Topsoil was backfilled to 1-foot bgs in the area located off-pad and off-road. The BLM #2 seed mix for sandy sites was broadcast seeded within the off-pad and off-road area (Figure 4). Photographic documentation of the observed depth of topsoil (Photo 7), the seed mix used (Figure 8), and the area post backfill/seeding (Figures 9 and 10) is included in Attachment C. Laboratory analytical reports are included in Attachment D and summarized on Table 2.

On February 11, 2025, the OCD rejected the Remediation Closure Report (Application ID #427416) submitted on February 3, 2025, for the following reasons:

- “Remediation closure denied for the following: Referring to Figure 4, the size of the excavation is ~8000 ft². Referring to your answers in the C-141 application to the question “What was the total surface area (in square feet) remediated,” you answered “6,220”. Based on the remediation plan approved on 10/11/24, base samples were to be collected every 400 square feet which would equal 16 floor samples if the total surface area is 6,220 square feet. An insufficient number of floor samples was collected from the base of the excavation.”
- “The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the 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; and a revegetation plan.”
 - “Of the requirements above, a backfill sample is missing. Mr NM Operating needs to collect a five-point composite backfill sample and submit with updated report.”
- “Resubmit updated remediation closure or reclamation report to the OCD by 3/13/25.”

CDH’s Senior GIS Specialist confirmed the excavation extent documented via ArcGIS and presented on Figure 4 represents a 5,538.76 square-foot area which confirmed the required amount of confirmation samples (5,538.76 square feet / 400 square feet = 13.8 confirmation samples) were collected from the excavation floor to address the first rejection item above.



On February 18, 2025, CDH emailed the OCD (Attachment A) regarding the first rejection item above to understand their methodology for calculating the area presented on Figure 4. On February 19th, the OCD called CDH via phone to share their methodology and provided approval of the number of floor samples collected based on the area documented using ArcGIS.

To address the second rejection item above, on February 12, 2025, CDH proposed the collection of one backfill composite soil sample from the material used to backfill the area located off-pad/off-road. The proposed sample consisted of two aliquots collected from the topsoil interval (0-1-foot bgs) and two aliquots collected from the backfill material (1-4 feet bgs). On February 14, 2025, the OCD agreed to this approach via email (Attachment A).

On February 22, 2025, composite sample Backfill was collected via hand auger from the area located off-pad/off-road using a handheld GPS unit to confirm the collection location. The composite backfill sample was placed into laboratory-supplied 4-ounce glass jars, sealed headspace free, labeled, stored in a cooler on ice, and submitted to Eurofins of Carlsbad, New Mexico, under standard chain-of-custody protocol for laboratory analysis of BTEX per EPA Method 8021B, TPH per EPA Method 8015, and chloride per EPA Method 300.0. Laboratory analytical results indicated the soil sample was below the laboratory reporting limits for benzene, BTEX, and TPH; however, chloride (1,200 mg/kg) exceeded the Reclamation Standard (600 mg/kg).

On March 4, 2025, CDH personnel returned to the site to further investigate the chloride exceedance. Composite sample Topsoil was collected from within the topsoil interval (0–1-foot bgs) at a depth of 3-9 inches bgs and composite sample Backfill was collected from within the backfill material (1-4 feet bgs) at a depth of 2.5-3.0 feet bgs. Both of these composite samples were placed into laboratory-supplied 4-ounce glass jars, sealed headspace free, labeled, stored in a cooler on ice, and submitted to Eurofins of Carlsbad, New Mexico, under standard chain-of-custody protocol for laboratory analysis of BTEX per EPA Method 8021B, TPH per EPA Method 8015, and chloride per EPA Method 300.0. Laboratory analytical results indicated both soil samples were below the laboratory reporting limits for benzene, BTEX, and TPH. The chloride concentration was below the Reclamation Standard (600 mg/kg) in both the Topsoil (127mg/kg) and Backfill (160 mg/kg) composite samples.

On April 14, 2025, CDH emailed the OCD (Attachment A) regarding the rejection to change analytes to Chloride only. On April 15, 2025, the OCD replied to CDH via email approving the request for Chloride only analytes, with the stipulation of collecting 12 evenly spaced sample points and collecting a discrete sample every foot to a depth of 4 feet bgs in the area marked by ArcGIS.

On April 16, 2025, CDH personnel returned to the site to further investigate the area in question. 48 discrete samples were collected from 12 separate points within the area with intervals of 0.25-0.75 inch bgs, 1.25-1.75 feet bgs, 2.25-2.75 feet bgs and 3.25-3.75 feet bgs via hand auger as requested by the OCD. All 48 samples were placed into laboratory-supplied 4-oz glass jars, sealed headspace free, labeled, stored in a cooler on ice, and submitted to Eurofins of Carlsbad, New Mexico, under standard chain-of-custody protocol for laboratory analysis of chloride per EPA Method 300.0. Laboratory analytical results indicated that 8 of the 48 samples exceeded Reclamation standards for chloride concentrations between 3 sample areas. Laboratory analytical results indicated soil sample BF09 exceeded Reclamation standards at 0.25-0.75 feet bgs (1,410 mg/kg), 1.25-1.75 feet bgs (3,260 mg/kg), 2.25-2.75 feet bgs (2,380 mg/kg) and 3.25-3.75 feet bgs (5,410 mg/kg). Laboratory analytical results indicated soil sample BF10 exceeded



Reclamation standards at 0.25-0.75 feet bgs (1,230 mg/kg), 2.25-2.75 feet bgs (2,890 mg/kg) and 3.25-3.75 feet bgs (5,640 mg/kg). Laboratory analytical results indicated soil sample BF11 exceeded Reclamation standards at 0.25-0.75 ft bgs (635 mg/kg).

PROPOSED NEXT STEPS

CDH Consulting proposes the following:

- MR NM contractor to remove soil determined to exceed the OCD Reclamation Standard.
 - CDH to direct and photo document excavation activities of soil exceeding the OCD Reclamation Standard.
 - CDH to collect five sidewall samples to be analyzed for chloride only to ensure chloride-impacted soil completely removed.
- CDH to collect a composite sample from the new topsoil and a composite sample from the new backfill material for full Table I analytes (BTEX, TPH, & Chloride) prior to backfilling.
- MR NM contractor to backfill the excavation once analytical data confirms the backfill material is below the OCD Reclamation Standard.
 - CDH to photo document backfilling activities.

Please do not hesitate to contact Michael A. Wicker at (616) 970-8459 or mwicker@cdhconsult.com if you have any questions or require additional information.

Kind Regards,

CDH CONSULTING, LLC

A handwritten signature in black ink, appearing to read "Michael A. Wicker".

Michael A. Wicker, P.G.
Senior Geologist

A handwritten signature in black ink, appearing to read "Devin Girtin".

Devin Girtin, P.G., PMP
Program Manager

Attachments:

Figures
Table
Attachment A – OCD Correspondence
Attachment B – Waste Manifests Summary
Attachment C – Photographic Log
Attachment D – Laboratory Analytical Reports

FIGURES

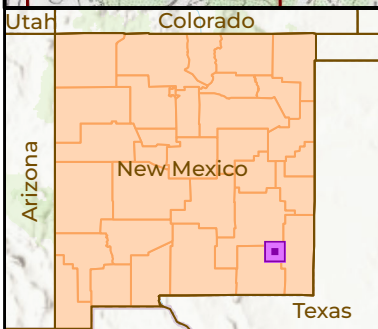
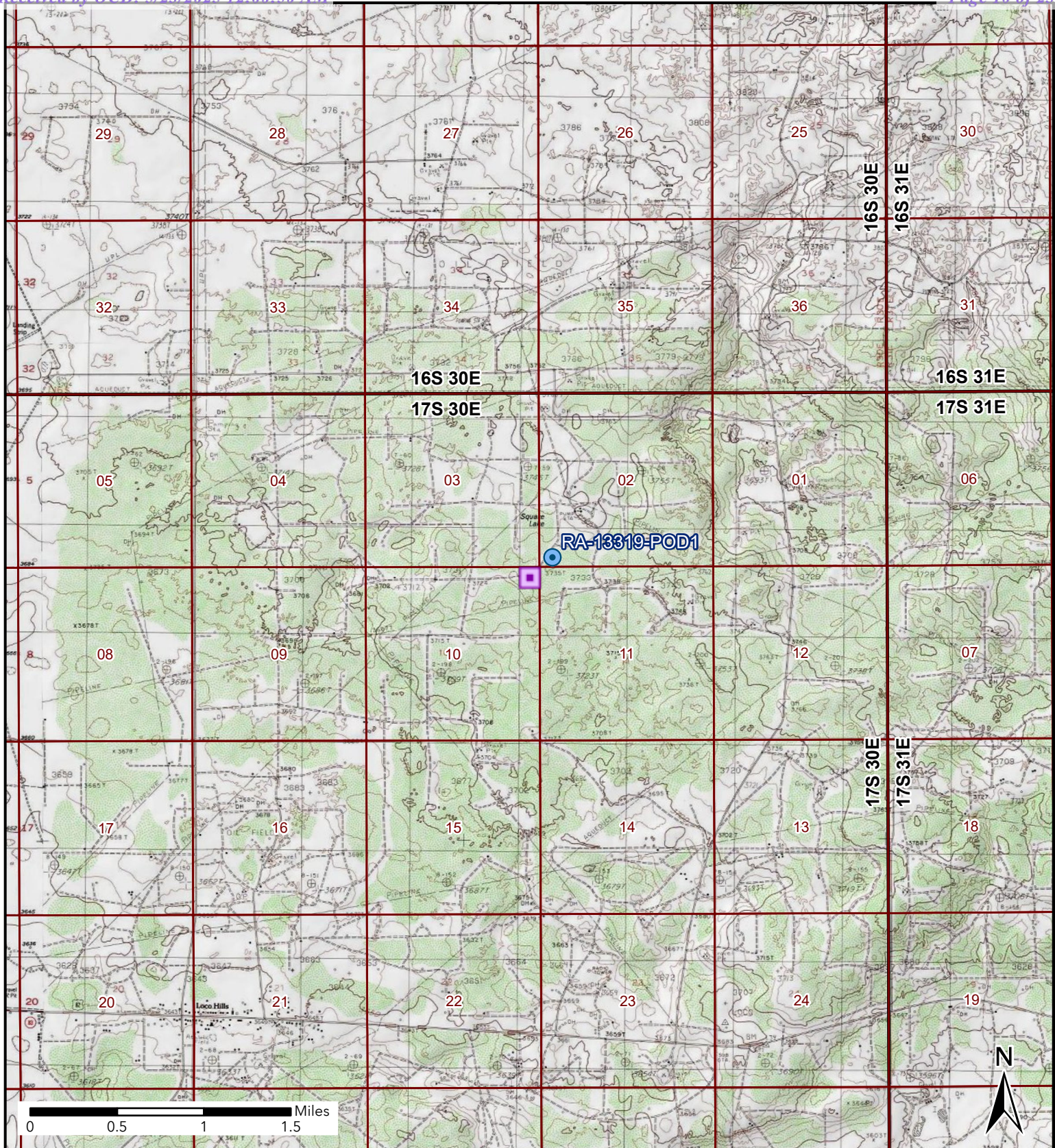


Figure 1 Site Location

Water Disposal Flowline Release
NENE-SEC 10-T17S-R30E Eddy County,
New Mexico
MR NM Operating, LLC

- Site Location
- Point of Diversion



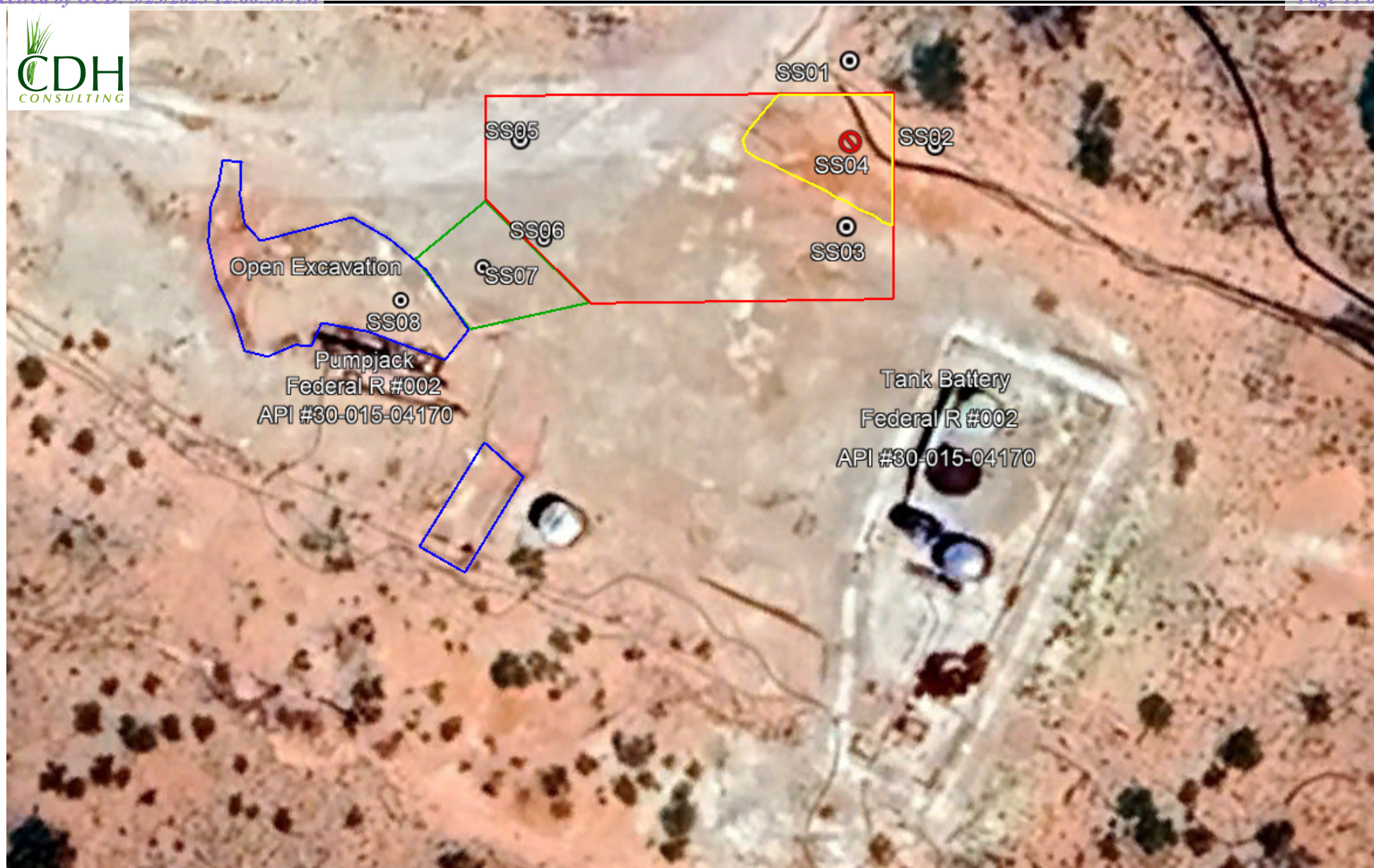


Figure 2 - Soil Sample Location

Water Disposal Flowline Release

 Planned Excavation

 Open Excavation

 Backfill with Topsoil

 Scrape Top 6 inches

⊗ Release Point

⊙ Soil Sample Location



Feet

0 40

Site location: T17S R30E Sec 10, Eddy County, New Mexico

Map Created: 6/12/2024

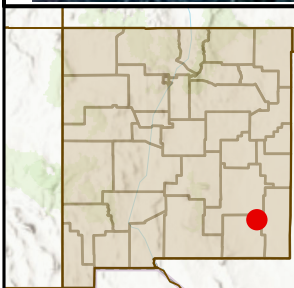
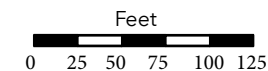


Figure 3 - Site Map
Water Disposal Flowline Release

- Estimated Excavation Extent
- Soil Sample Location

- Release Point

Scale:
1:72



Site location: T17S R30E Sec 10, Eddy County, New Mexico

Map Created: 6/12/2024

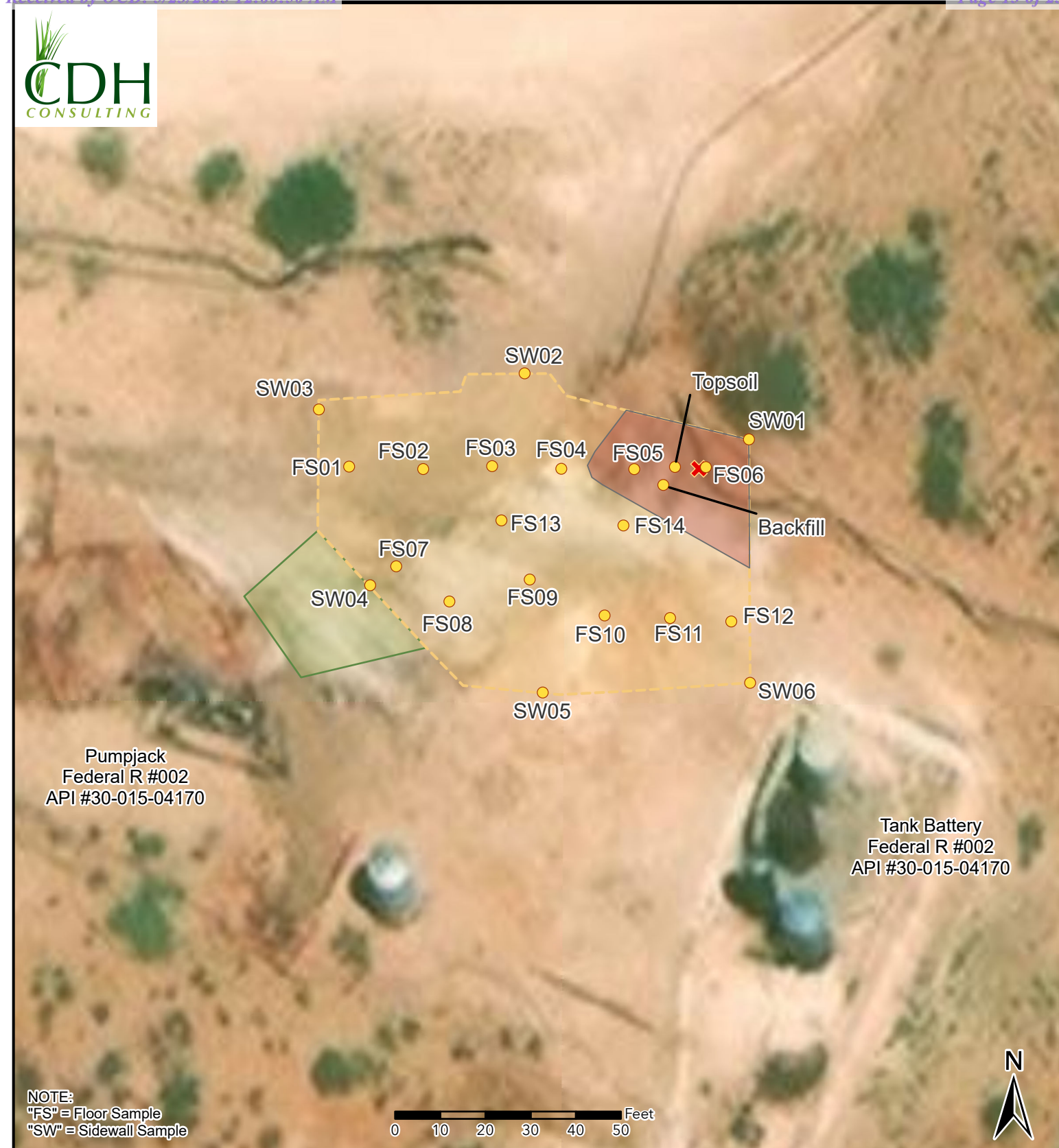


Figure 4
Soil Sample Location Map
Water Disposal Flowline Release

NENE-SEC 10-T17S-R30E
Eddy County, New Mexico
MR NM Operating, LLC

- ✖ Release Point
- Soil Sample Location
- - - Excavation Extent
- Top 6-inches scraped
- Top 1 foot backfilled with topsoil

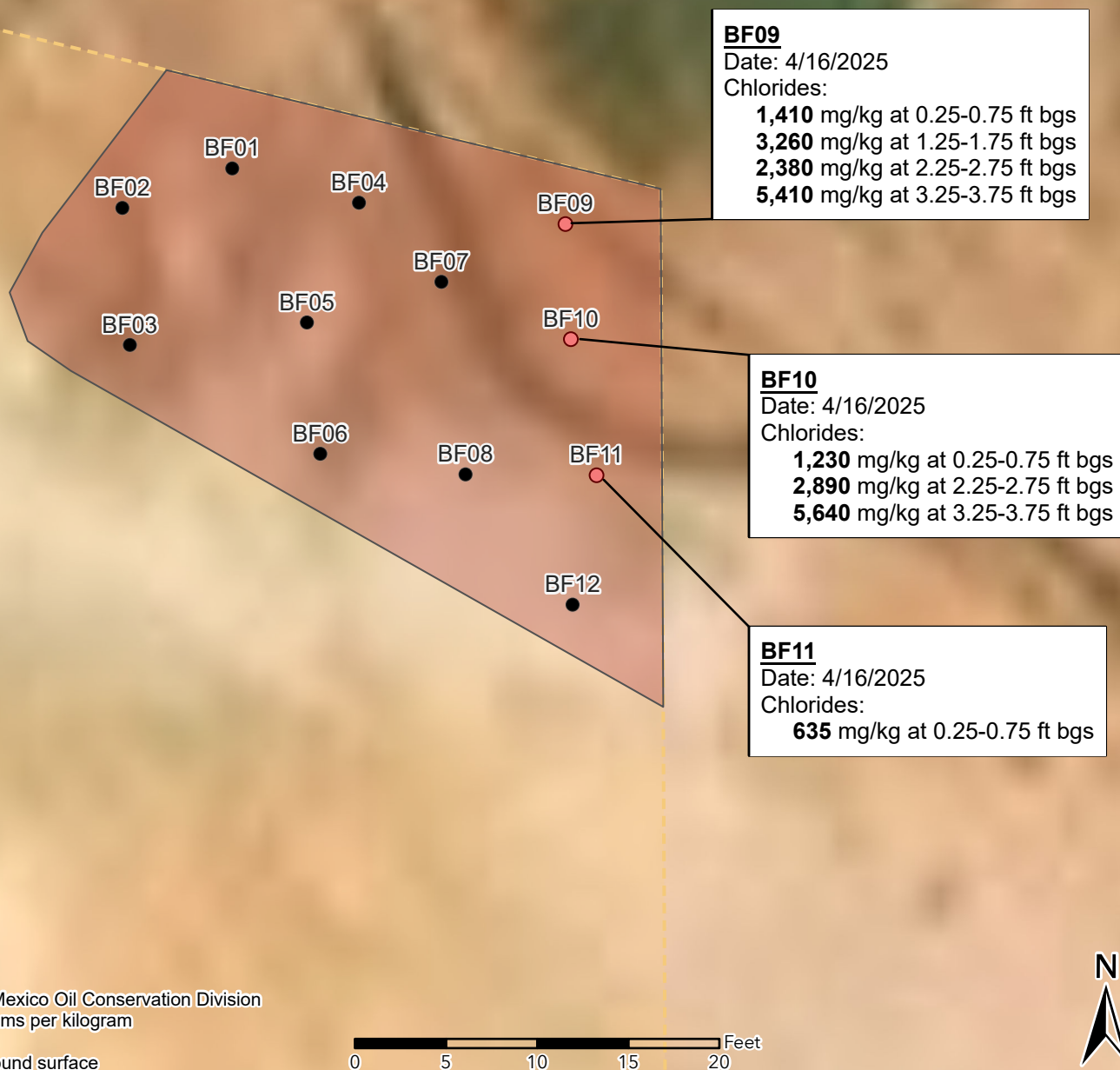
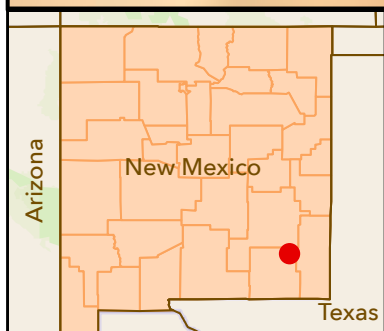


Figure 5 - Backfill Assessment Exceedances

Westall
NENE-SEC-10-T17S-R30E
Eddy County, New Mexico
MR NM Operating, LLC

- Exceed Standard and Background
- Below Standard
- Existing Excavation
- Backfill



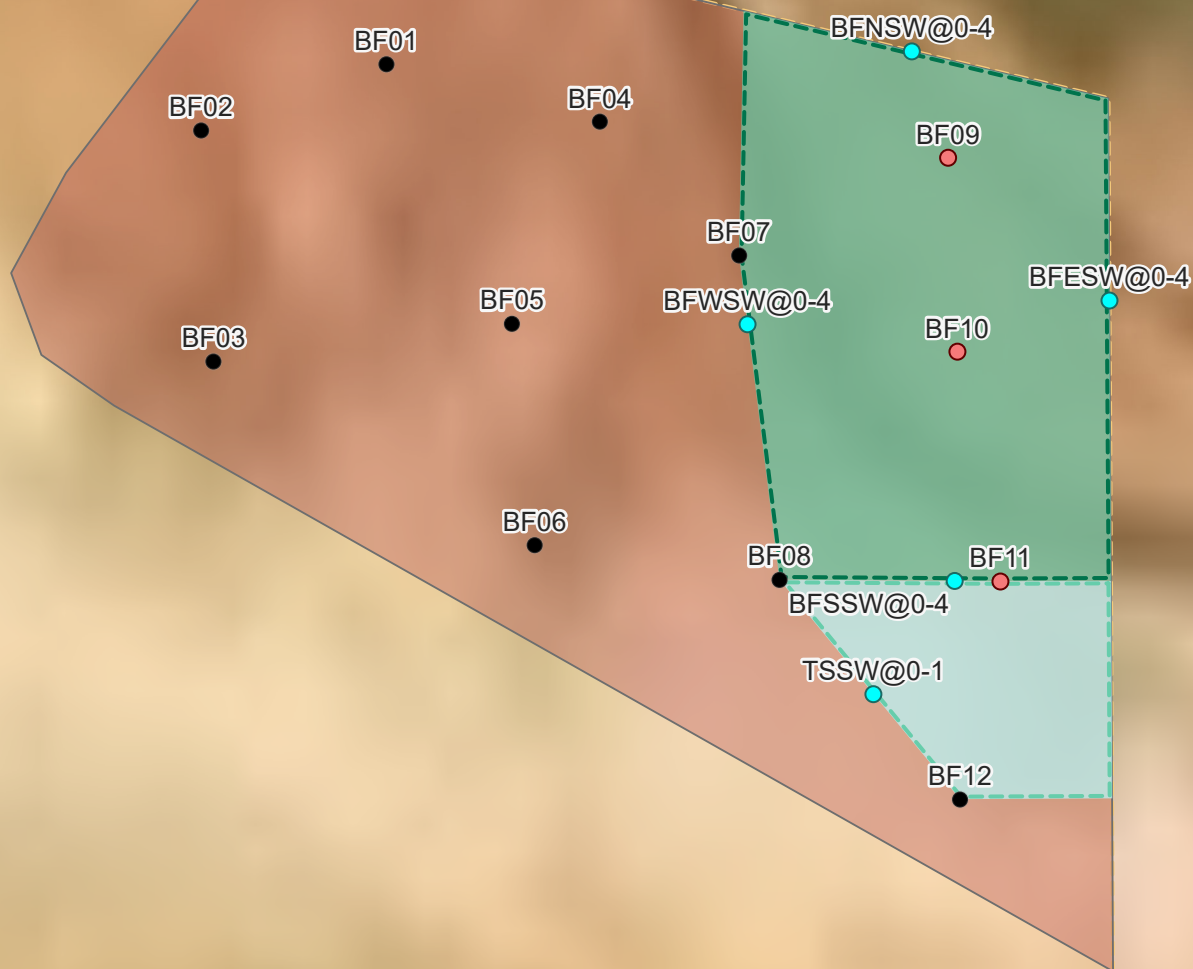
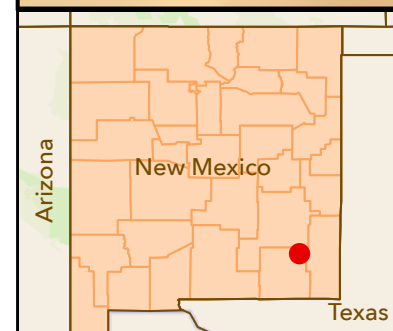


Figure 6 - Proposed Backfill Removal Confirmation Sampling

Westall
NENE-SEC-10-T17S-R30E
Eddy County, New Mexico
MR NM Operating, LLC

- Proposed Soil Sample
- Exceed Standard and Background
- Below Standard
- Proposed 1-foot Excavation
- Proposed 4-foot Excavation
- Backfill
- Existing Excavation



TABLES

TABLE 1
SOIL ANALYTICAL RESULTS
WESTALL LINE RELEASE
INCIDENT #nAPP2322554757
EDDY COUNTY, NEW MEXICO
MR NM OPERATING, LLC

Sample ID	Date Sampled	Depth (ft bgs)	Chlorides (mg/kg)	TPH ⁽²⁾ (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
NMOCD Table I Soil Standard (mg/kg) ⁽¹⁾		0-4	600	100	NA	NA	NA	50	10
NMOCD Table I Soil Standard (mg/kg) ⁽²⁾		>4	20,000	2,500	NA	NA	1,000	50	10
BG01@0.5	4/18/2024	0.5	<20.0	--	--	--	--	--	--
BG01@2.0	4/18/2024	2.0	<20.0	--	--	--	--	--	--
BG01@4.0	4/18/2024	4.0	<20.0	--	--	--	--	--	--
SS01@0.5	4/18/2024	0.5	489	--	--	--	--	--	--
SS02@0.5	4/18/2024	0.5	<20.0	--	--	--	--	--	--
SS03@0.5	4/18/2024	0.5	1,480	--	--	--	--	--	--
SS03@2.0	4/18/2024	2.0	873	--	--	--	--	--	--
SS03@4.0	4/18/2024	4.0	719	--	--	--	--	--	--
SS04@0.5	10/10/2023	0.5	12,200	<49.9	<49.9	<49.9	<49.9	<0.00396	<0.00198
SS04@2.0	4/18/2024	2.0	10,900	--	--	--	--	--	--
SS04@4.0	4/18/2024	4.0	13,900	--	--	--	--	--	--
SS05@0.5	4/18/2024	0.5	660	--	--	--	--	--	--
SS05@2.0	4/18/2024	2.0	835	--	--	--	--	--	--
SS05@4.0	4/18/2024	4.0	856	--	--	--	--	--	--
SS06@0.5	9/5/2024	0.5	695	<95.0	<20.0	<25.0	<50.0	<0.1000	<0.0250
SS06@4.0	9/5/2024	4.0	147	<95.0	<20.0	<25.0	<50.0	<0.1000	<0.0250
SS07@0.5	9/5/2024	0.5	3,050	2,070	<20.0	1,020	1,050	<0.1000	<0.0250
SS07@4.0	9/5/2024	4.0	176	<95.0	<20.0	<25.0	<50.0	<0.1000	<0.0250
SS08@1.0	9/5/2024	1.0	75.5	531	<20.0	531	<50.0	<0.1000	<0.0250
SS08@4.0	9/5/2024	4.0	543	<95.0	<20.0	<25.0	<50.0	<0.1000	<0.0250

Notes:

Soil sample location SS04 represents soil from the source of the release

1. Standards for soil are taken from 19.15.29.12(C)(4) NMAC, Table I, Depth to ground water 0-50 ft

2. TPH - Total volatile and extractable hydrocarbons. Value calculated by adding GRO, DRO and ORO concentrations.

Bold = Result above closure criteria

NMOCD = New Mexico Oil Conservation Division

(<) = Analytical result is less than the indicated laboratory reporting limit

GRO = Gasoline range organics

DRO = Diesel range organics

ORO = Oil range organics

BTEX = Total benzene, toluene, ethylbenzene, and total xylenes

mg/kg = Milligrams per kilogram

ft = Feet

bgs = Below ground surface

NA = not applicable

TABLE 2
SOIL ANALYTICAL RESULTS
WESTALL LINE RELEASE
INCIDENT #nAPP2322554757
EDDY COUNTY, NEW MEXICO
MR NM OPERATING, LLC

Sample ID	Date Sampled	Depth (ft bgs)	Chlorides (mg/kg)	TPH ⁽³⁾ (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
NMOC Table I Soil Standard (mg/kg) ⁽¹⁾		0-4	600	100	NA	NA	NA	50	10
SW01	1/3/2025	0-4	261	<49.8	<49.8	<49.8	<49.8	<0.00398	<0.00199
SW02	1/3/2025	0-4	796	<49.8	<49.8	<49.8	<49.8	<0.00402	<0.00201
SW02	1/10/2025	0-4	143	<49.8	<49.8	<49.8	<49.8	<0.00403	<0.00202
SW03	1/3/2025	0-4	208	<49.8	<49.8	<49.8	<49.8	<0.00398	<0.00199
SW04	12/20/2024	0-4	99.2	<50.0	<50.0	<50.0	<50.0	<0.00398	<0.00199
SW05	1/3/2025	0-4	211	<49.9	<49.9	<49.9	<49.9	<0.00402	<0.00201
SW06	1/3/2025	0-4	439	<49.7	<49.7	<49.7	<49.7	<0.00404	<0.00202
Backfill (Topsoil+Backfill)	2/22/2025	0.5-2.0	1,200	<50.0	<50.0	<50.0	<50.0	<0.00399	<0.00200
Backfill	3/4/2025	2.5-3.0	160	<50.5	<50.5	<50.5	<50.5	<0.00404	<0.00202
Topsoil	3/4/2025	0.25-0.75	127	<50.1	<50.1	<50.1	<50.1	<0.00399	<0.00200
BF01	4/16/2025	0.25-0.75	125	--	--	--	--	--	--
BF01	4/16/2025	1.25-1.75	110	--	--	--	--	--	--
BF01	4/16/2025	2.25-2.75	104	--	--	--	--	--	--
BF01	4/16/2025	3.25-3.75	121	--	--	--	--	--	--
BF02	4/16/2025	0.25-0.75	129	--	--	--	--	--	--
BF02	4/16/2025	1.25-1.75	119	--	--	--	--	--	--
BF02	4/16/2025	2.25-2.75	108	--	--	--	--	--	--
BF02	4/16/2025	3.25-3.75	147	--	--	--	--	--	--
BF03	4/16/2025	0.25-0.75	210	--	--	--	--	--	--
BF03	4/16/2025	1.25-1.75	121	--	--	--	--	--	--
BF03	4/16/2025	2.25-2.75	158	--	--	--	--	--	--
BF03	4/16/2025	3.25-3.75	332	--	--	--	--	--	--
BF04	4/16/2025	0.25-0.75	144	--	--	--	--	--	--
BF04	4/16/2025	1.25-1.75	187	--	--	--	--	--	--
BF04	4/16/2025	2.25-2.75	128	--	--	--	--	--	--
BF04	4/16/2025	3.25-3.75	142	--	--	--	--	--	--
BF05	4/16/2025	0.25-0.75	129	--	--	--	--	--	--
BF05	4/16/2025	1.25-1.75	273	--	--	--	--	--	--
BF05	4/16/2025	2.25-2.75	157	--	--	--	--	--	--
BF05	4/16/2025	3.25-3.75	152	--	--	--	--	--	--
BF06	4/16/2025	0.25-0.75	98.7	--	--	--	--	--	--
BF06	4/16/2025	1.25-1.75	107	--	--	--	--	--	--
BF06	4/16/2025	2.25-2.75	166	--	--	--	--	--	--
BF06	4/16/2025	3.25-3.75	88.6	--	--	--	--	--	--
BF07	4/16/2025	0.25-0.75	117	--	--	--	--	--	--
BF07	4/16/2025	1.25-1.75	252	--	--	--	--	--	--
BF07	4/16/2025	2.25-2.75	229	--	--	--	--	--	--
BF07	4/16/2025	3.25-3.75	151	--	--	--	--	--	--
BF08	4/16/2025	0.25-0.75	98.8	--	--	--	--	--	--
BF08	4/16/2025	1.25-1.75	230	--	--	--	--	--	--
BF08	4/16/2025	2.25-2.75	245	--	--	--	--	--	--
BF08	4/16/2025	3.25-3.75	259	--	--	--	--	--	--
BF09	4/16/2025	0.25-0.75	1,410	--	--	--	--	--	--
BF09	4/16/2025	1.25-1.75	3,260	--	--	--	--	--	--
BF09	4/16/2025	2.25-2.75	2,380	--	--	--	--	--	--
BF09	4/16/2025	3.25-3.75	5,410	--	--	--	--	--	--
BF10	4/16/2025	0.25-0.75	1,230	--	--	--	--	--	--
BF10	4/16/2025	1.25-1.75	564	--	--	--	--	--	--
BF10	4/16/2025	2.25-2.75	2,890	--	--	--	--	--	--
BF10	4/16/2025	3.25-3.75	5,640	--	--	--	--	--	--
BF11	4/16/2025	0.25-0.75	635	--	--	--	--	--	--

TABLE 2
SOIL ANALYTICAL RESULTS
WESTALL LINE RELEASE
INCIDENT #nAPP2322554757
EDDY COUNTY, NEW MEXICO
MR NM OPERATING, LLC

Sample ID	Date Sampled	Depth (ft bgs)	Chlorides (mg/kg)	TPH ⁽³⁾ (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
NMOCD Table I Soil Standard (mg/kg) ⁽¹⁾		0-4	600	100	NA	NA	NA	50	10
BF11	4/16/2025	1.25-1.75	95.9	--	--	--	--	--	--
BF11	4/16/2025	2.25-2.75	121	--	--	--	--	--	--
BF11	4/16/2025	3.25-3.75	278	--	--	--	--	--	--
BF12	4/16/2025	0.25-0.75	150	--	--	--	--	--	--
BF12	4/16/2025	1.25-1.75	90.9	--	--	--	--	--	--
BF12	4/16/2025	2.25-2.75	196	--	--	--	--	--	--
BF12	4/16/2025	3.25-3.75	255	--	--	--	--	--	--
NMOCD Table I Soil Standard (mg/kg) ⁽²⁾		≥4	20,000	2,500	NA	NA	1,000	50	10
FS01	1/3/2025	4	337	<49.8	<49.8	<49.8	<49.8	<0.00399	<0.00200
FS02	1/3/2025	4	396	<50.0	<50.0	<50.0	<50.0	<0.00402	<0.00201
FS03	1/3/2025	4	1,170	<49.8	<49.8	<49.8	<49.8	<0.00398	<0.00199
FS04	1/3/2025	4	978	<49.8	<49.8	<49.8	<49.8	<0.00402	<0.00201
FS05	1/3/2025	4	2,020	<49.7	<49.7	<49.7	<49.7	<0.00398	<0.00199
FS06	1/3/2025	4	397	<49.7	<49.7	<49.7	<49.7	<0.00402	<0.00201
FS07	1/3/2025	4	235	<49.9	<49.9	<49.9	<49.9	<0.00404	<0.00202
FS08	1/3/2025	4	304	<49.8	<49.8	<49.8	<49.8	<0.00396	<0.00198
FS09	1/3/2025	4	244	<49.8	<49.8	<49.8	<49.8	<0.00398	<0.00199
FS10	1/3/2025	4	243	<49.9	<49.9	<49.9	<49.9	<0.00400	<0.00200
FS11	1/3/2025	4	325	<49.7	<49.7	<49.7	<49.7	<0.00399	<0.00200
FS12	1/3/2025	4	581	<50.0	<50.0	<50.0	<50.0	<0.00402	<0.00201
FS13	1/3/2025	4	1,800	<49.9	<49.9	<49.9	<49.9	<0.00396	<0.00198
FS14	1/3/2025	4	556	<50.3	<50.3	<50.3	<50.3	<0.00398	<0.00199

Notes:

Soil sample location SS04 represents soil from the source of the release

1. Reclamation standard for the top 4 feet of soil per 19.15.29.13(D)(1) NMAC, Table I, Depth to ground water 0-50 ft

2. Closure criteria for soil deeper than 4 feet per 19.15.29.12(C)(4) NMAC, Table I, Depth to ground water >100 ft

3. TPH - total volatile and extractable hydrocarbons. Value calculated by adding GRO, DRO and MRO concentrations

Yellow highlight = soil represented by soil sample has been excavated and removed for offsite disposal

Gray highlight = soil samples collected at least 50 feet from any previous oil & gas activity to evaluate natural chloride concentrations in the ar

Red = Result above closure criteria

NMOCD = New Mexico Oil Conservation Division

(<) = Analytical result is less than the indicated laboratory reporting limit

GRO = Gasoline range organics

DRO = Diesel range organics

ORO = Oil range organics

BTEX = Total benzene, toluene, ethylbenzene, and total xylenes

mg/kg = Milligrams per kilogram

ft = Feet

bgs = Below ground surface

NA = not applicable

ATTACHMENT A

OCD Correspondence

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
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District III
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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 251403

QUESTIONS

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 251403
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Water Disposal Flowline Release
Date Release Discovered	07/31/2023
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
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: Human Error Flow Line - Production Produced Water Released: 150 BBL Recovered: 25 BBL Lost: 125 BBL.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 251403

QUESTIONS (continued)

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 251403
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Katherine Kahn, CDH Consulting, LLC
If YES, was immediate notice given to the OCD, to whom	Mike Bratcher, OCD
If YES, was immediate notice given to the OCD, when	08/01/2023
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	phone
<i>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.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 251403

ACKNOWLEDGMENTS

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 251403
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

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

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Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 251403

CONDITIONS

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 251403
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
gfast_cdh	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	8/13/2023

District I
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1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NAPP2322554757
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	MR NM Operating LLC	OGRID
Contact Name	Klint Farrar	Contact Telephone (469) 906-2004
Contact email	klint@cypressnr.com	Incident # (assigned by OCD)
Contact mailing address	5950 Berkshire Lane Suite 1000 Dallas, TX 75225	

Location of Release Source

Latitude 32.85551 Longitude -103.95222
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Westall Line Release	Site Type	Flowline
Date Release Discovered	7/31/23	API# (if applicable)	

Unit Letter	Section	Township	Range	County
A	10	17S	30E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 150 bbls	Volume Recovered (bbls) 25 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

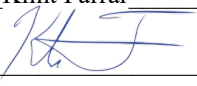
The release was noticed by Cypress personnel around 3:30 pm on 7/31/23 from a poly water disposal line. The line was shut-in by 4 pm and repaired that evening. During repairs, a drag mark on the poly line was determined to be the source of the release, likely damaged during the installation. Twenty feet of poly line was removed and replaced with new poly. A vac truck removed approximately 25 bbls of produced water from the surface on 7/31/23. MR NM calculated the time between notification of the leak and when the line was last driven and calculated the estimated rate through the flowline from CNR facilities. Recovered volumes were reported by the quantity removed by the vac truck.

Incident ID	NAPP2322554757
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? This incident is an unauthorized release of a volume, excluding gases, of 25 barrels or more.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Mike Bratcher at the OCD (575-626-0857) was notified via phone on 8.1.23 by Katherine Kahn (CDH Consulting, LLC). Additionally, this form was emailed to the OCD.Enviro@emnrd.nm.gov. Jose Martinez at the BLM (575-234-5972) was also notified of the spill by phone and email on 8.1.23 by Katherine Kahn since it occurred on federal land.	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Klint Farrar</u>	Title: <u>President</u>
Signature: <u></u>	Date: <u>8/1/23</u>
email: <u>klint@cypressnr.com</u>	Telephone: <u>469-906-2004</u>
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>8/15/2023</u>

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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

CONDITIONS

Action 251425

CONDITIONS

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 251425
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	8/15/2023

From: [Wells, Shelly, EMNRD](#)
To: [Michael Wicker](#)
Cc: [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has approved the application, Application ID: 389865
Date: Monday, January 13, 2025 9:59:50 AM

Hi Michael,

I am happy to hear that the remediation of NAPP2322554757 WATER DISPOSAL FLOWLINE RELEASE is close to being finished. A remediation closure report was due to the OCD by 1/9/25 and as such, your request for an extension is denied. An extension needs to be requested before the 90-day remediation deadline has expired. Include this e-mail correspondence in the remediation and/or closure report.

Sincerely,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Michael Wicker <mwicker@cdhconsult.com>
Sent: Monday, January 13, 2025 9:40 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: [EXTERNAL] RE: The Oil Conservation Division (OCD) has approved the application, Application ID: 389865

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

Hi Shelly,

Hope you had a great weekend!

We have completed delineation/remediation at the water disposal flowline release (nAPP2322554757), with the exception of one sidewall sample that required further soil removal to address a minor chloride exceedance. The confirmation soil sample was recollected/submitted

Friday for 24-hour TAT (results expected by EOD today).

Closure Report Due Date Extension

We request the Remediation Closure Report due date be extended to February 15, 2025, to draft the Remediation Closure Report/figures and to allow time in case the final confirmation sample exceeds, and further excavation is required. We anticipate the Remediation Closure Report will be submitted well before February 15th but have selected this due date to avoid future extension requests should the site require further excavation.

We are so close, thanks again for your guidance with this one!

Thank you,
Michael

Michael A. Wicker, P.G.
Senior Geologist
CDH Consulting, LLC
616.970.8459

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, October 15, 2024 10:28 AM
To: Michael Wicker <mwicker@cdhconsult.com>
Subject: RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has approved the application, Application ID: 389865

You're welcome Michael.

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Michael Wicker <mwicker@cdhconsult.com>
Sent: Monday, October 14, 2024 6:51 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: ocdonline, emnrd, EMNRD <emnrd.ocdonline@emnrd.nm.gov>
Subject: [EXTERNAL] RE: The Oil Conservation Division (OCD) has approved the application, Application ID: 389865

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

Thank you for the quick turnaround, hope you have a great weekend!

Michael A. Wicker, P.G.
Senior Geologist
CDH Consulting, LLC
616.970.8459

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Friday, October 11, 2024 4:30 PM

To: Michael Wicker <mwicker@cdhconsult.com>

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 389865

To whom it may concern (c/o Michael Wicker for MR NM Operating LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2322554757, with the following conditions:

- **Remediation plan approved with conditions: 1) Areas affected by the MR NM Operating release that are located on the other operator's wellpad may be backfilled with compacted caliche.**
- **2) The top 4' of the release area needs to be reclaimed to the most stringent criteria in Table 1.**
- **3) All confirmation samples must be tested for all constituents in Table 1.**
- **4) If MR NM Operating chooses to cease excavation due to encountering TPH or BTEX, all activities must cease and the OCD is to be consulted immediately.**
- **Submit remediation closure report to the OCD by 1/9/2025.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive

Santa Fe, NM 87505

Michael Wicker

From: OCDOnline@state.nm.us
Sent: Tuesday, February 11, 2025 2:07 PM
To: Michael Wicker
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 427416

Follow Up Flag: Follow up
Flag Status: Flagged

To whom it may concern (c/o Michael Wicker for MR NM Operating LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2322554757, for the following reasons:

- **Remediation closure denied for the following: Referring to Figure 4, the size of the excavation is ~8000 ft². Referring to your answers in the C-141 application to the question "What was the total surface area (in square feet) remediated," you answered "6,220". Based on the remediation plan approved on 10/11/24, base samples were to be collected every 400 square feet which would equal 16 floor samples if the total surface area is 6,220 square feet. An insufficient number of floor samples was collected from the base of the excavation.**
- **The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the 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; and a revegetation plan.**
- **Of the requirements above, a backfill sample is missing. Mr NM Operating needs to collect a five-point composite backfill sample and submit with updated report.**
- **Resubmit updated remediation closure or reclamation report to the OCD by 3/13/25.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 427416.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A

505-469-7520

Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

Michael Wicker

From: Michael Wicker
Sent: Tuesday, February 18, 2025 11:51 AM
To: Wells, Shelly, EMNRD
Cc: Bratcher, Michael, EMNRD; Chris Delhierro
Subject: RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 427416
Attachments: Figure2_SoilSampleLocation_WestallLineRelease_20250218.pdf

Hi Shelly,

If the area of the excavation was 5,532 square feet then you collected the correct number of confirmation floor samples. If you could update Figure 4 to reflect the correct size as its scale makes its area ~8000ft² and I did not even include the surface scrape area in the measurement, that would be preferred.

We looked into the figure and confirmed the figure is presenting a 5,538.76 sq ft area (see attached) which is representative of the excavation extent. Can you show how you are calculating 8,000 sqft? We're unable to reproduce this.

I would like to see a photograph of the surface scraped area if it possible.

Unfortunately, this was not photo documented due to a miscommunication with field staff. I assure you the area was scrapped to 6 inches within the area specified using GPS to accurately mark the area. We were more happy to accommodate this request as it was a reasonable compromise agreed to by all parties.

As far as the backfill goes, yes you could collect some from the surface (in the topsoil) and the rest from the deeper depth. As long as it's a five point composite from the soil used for backfill, and is below reclamation limits, that will suffice for the second part of the rejection.

CDH will submit an updated Remediation Closure Plan by 3/13/2025, with results for the 5-point composite sample to be collected from the area that was agreed to be reclaimed.

Thank you!
Michael

Michael A. Wicker, P.G.
Senior Geologist
CDH Consulting, LLC
616.970.8459

From: Jeremy Larsen jlarsen@cdhconsult.com
Sent: Tuesday, February 18, 2025 11:36 AM
To: Michael Wicker mwicker@cdhconsult.com
Subject: Re: The Oil Conservation Division (OCD) has rejected the application, Application ID: 427416

The most accurate measurement I am arriving at is 5,538.76 sq ft. I've used every method I can think of, every model I have available, using different projections and they all come out more or less the same. I've even pulled a measuring tape out and laid it against my screen (though I can only estimate that way). The scale bar is dynamically tied to the map frame, and I've triple checked it, even adding additional scale bars in to verify.

The attached figure is as accurate as I can make it for minimizing distortions to Area, but it's not a whole lot different than the version yesterday.

Are you seeing 8,000, too? I'm just not sure where that is coming from. The only think I can figure is that they are taking the absolute longest dimensions for x and y (and rounding up) and ignoring the irregularity of the polygon.

Jeremy

Jeremy Larsen

GIS and Location Intelligence

CDH Consulting, LLC

720.234.9023

jlarsen@CDHConsult.com



www.CDHConsult.com

Michael A. Wicker, P.G.
Senior Geologist
CDH Consulting, LLC
616.970.8459

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, February 14, 2025 3:01 PM
To: Michael Wicker <mwicker@cdhconsult.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Chris Delhierro <chris@cdhconsult.com>
Subject: RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 427416

Hi Michael,

If the area of the excavation was 5,532 square feet then you collected the correct number of confirmation floor samples. If you could update Figure 4 to reflect the correct size as its scale makes its area ~8000ft² and I did not even include the surface scrape area in the measurement, that would be preferred. I would like to see a photograph of the surface scraped area if it possible. As far as the backfill goes, yes you

could collect some from the surface (in the topsoil) and the rest from the deeper depth. As long as it's a five point composite from the soil used for backfill, and is below reclamation limits, that will suffice for the second part of the rejection.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Michael Wicker <mwicker@cdhconsult.com>
Sent: Wednesday, February 12, 2025 8:09 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Chris Delhierro <chris@cdhconsult.com>
Subject: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 427416

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

Hi Shelly,

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2322554757, for the following reasons:

- **Remediation closure denied for the following: Referring to Figure 4, the size of the excavation is ~8000 ft². Referring to your answers in the C-141 application to the question "What was the total surface area (in square feet) remediated," you answered "6,220". Based on the remediation plan approved on 10/11/24, base samples were to be collected every 400 square feet which would equal 16 floor samples if the total surface area is 6,220 square feet. An insufficient number of floor samples was collected from the base of the excavation.**

We confirmed the total surface area (in square feet) remediated was 6,221.25 square feet using the GIS file collected in the field. This includes the area the OCD and CDH agreed would be scraped to 6-inches bgs and no samples would be collected from (green area in screenshot below).

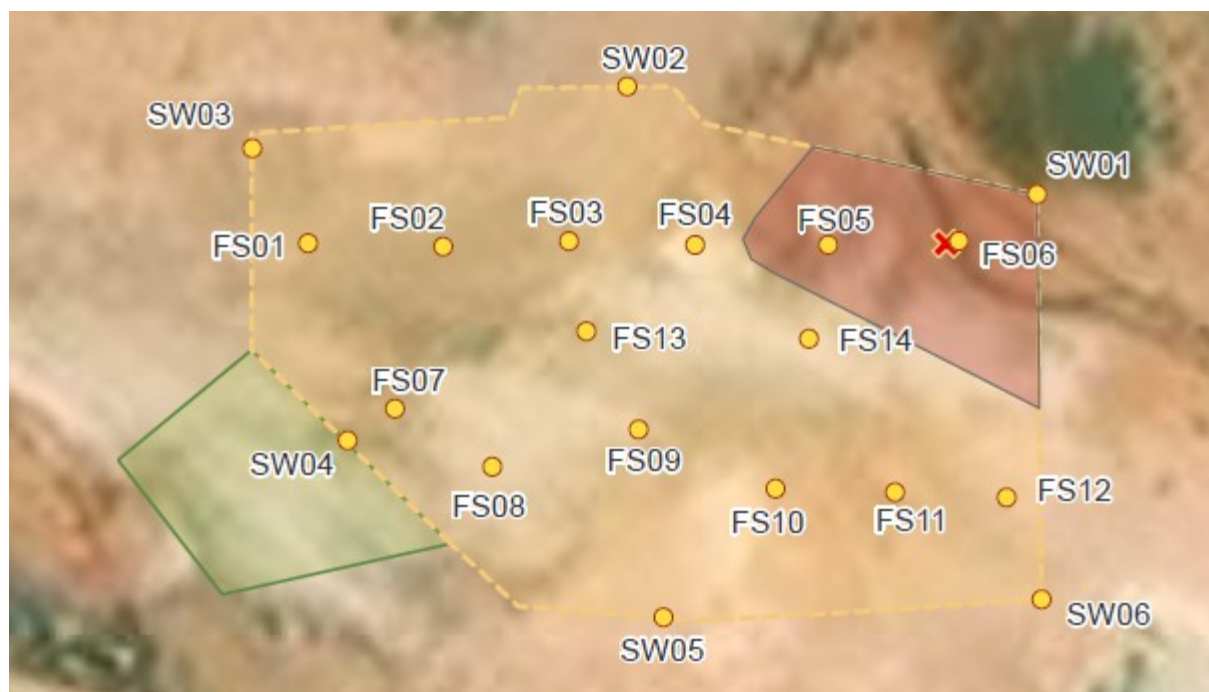
The excavation (not including the area the OCD and CDH agreed no samples would be collected from) is 5,532.02 square feet. $5,532.02 / 400$ square feet = 13.83 confirmation soil samples. 14 confirmation soil samples were collected.

We agreed to 200 square feet for sidewalls, perimeter is 298.45 feet X 4 feet deep = 1,193.8 square feet / 200 square feet = 5.97 samples. 6 sidewall samples were collected.

“On October 2, 2024, CDH and the OCD developed a clear and reasonable path forward regarding the LLJ Ventures, LLC DBA Marker Oil & Gas Federal R #002 wellhead release open excavation via Microsoft Teams. It was agreed that MR NM will remove 6 inches (approximately 2 cubic yards) in the vicinity of SS07 (Figure 2). No confirmation soil samples were to be collected from this area.”

- **The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the 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; and a revegetation plan.**
- **Of the requirements above, a backfill sample is missing. Mr NM Operating needs to collect a five-point composite backfill sample and submit with updated report.**

CDH will collect a 5-point composite sample from the area that was agreed to be reclaimed (red area). As the top 1 foot was backfilled with topsoil, the 5-point composite sample will consist of aliquot samples collected from depths of 0.5-1 and 1.5-2 feet bgs.



- **Resubmit updated remediation closure or reclamation report to the OCD by 3/13/25.**

CDH will submit an updated Remediation Closure Plan by 3/13/2025, with results for the 5-point composite sample to be collected from the area that was agreed to be reclaimed

Thank you,
Michael

Michael A. Wicker, P.G.
Senior Geologist
CDH Consulting, LLC
616.970.8459

Michael Wicker

From: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Sent: Tuesday, April 15, 2025 10:42 AM
To: Michael Wicker
Cc: Devin Girtin; Wells, Shelly, EMNRD
Subject: RE: [EXTERNAL] RE: Request for Reduced Analytes (Chloride-Only) - Incident ID nAPP2322554757 - MR NM Operating LLC

Follow Up Flag: Follow up
Flag Status: Flagged

Michael,

As we discussed, and as I understand the issue, initial sampling of previously placed backfill material in the area marked in red on the below map, denoted by FS05 and FS06, one of the samples taken returned a value of 1200 mg/kg chloride which is over limit for backfill material for this area. My understanding is those samples were also tested for hydrocarbon constituents and returned values of non-detect (below reporting limits). To further investigate this area, utilize 12 sample points as evenly spaced as possible. Obtain discrete samples from each sample point at surface and one foot intervals through four feet bgs. Testing may be for chloride only in this instance.

Please include this and all correspondence in future submittals.

Thank you,

Mike Bratcher

Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 |
mike.bratcher@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>

From: Michael Wicker <mwicker@cdhconsult.com>
Sent: Monday, April 14, 2025 10:22 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Devin Girtin <dgirtin@cdhconsult.com>
Subject: [EXTERNAL] RE: Request for Reduced Analytes (Chloride-Only) - Incident ID nAPP2322554757 - MR NM Operating LLC

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

Good Morning, Mike,

Hope you had a great weekend!

Thank you for discussing this project with me Friday. After you and I spoke, Shelly denied our request to **reduce analytes to chloride only** for the continued backfill assessment. We strongly feel this is unreasonable and unsupported by science or industry standards. Forcing MR NM Operating to analyze for benzene, BTEX, or TPH provides no further protection to groundwater, human health, the environment, or property while unnecessarily wasting resources.

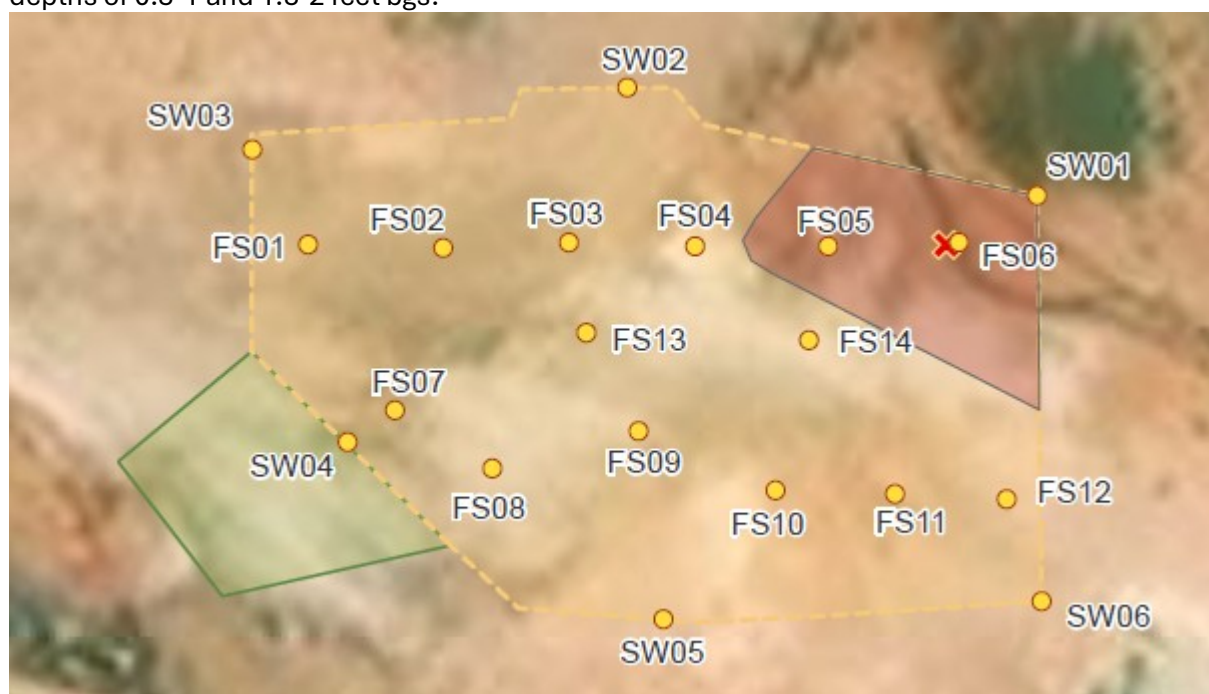
February 11, 2025

Shelly Wells (OCD) denied Application ID #427416

- “Of the requirements above, a backfill sample is missing. Mr NM Operating needs to collect a five-point composite backfill sample and submit with updated report.”

February 12, 2025

- CDH proposed via email the collection of one 5-point composite sample from the area that was agreed to be reclaimed (red area). As this area was backfilled from 1-4 feet bgs with fill material and the top 1 foot was backfilled with topsoil, the 5-point composite sample included aliquot samples collected from depths of 0.5-1 and 1.5-2 feet bgs.



February 22, 2025

- CDH collected the 5-point composite sample included aliquot samples collected from depths of 0.5-1 and 1.5-2 feet bgs.

February 26, 2025

- CDH received analytical results:
 - **Benzene, BTEX, and TPH all below laboratory reporting limits**
 - Chloride exceeded the Reclamation Standard (600 mg/kg) with a concentration of 1,200 mg/kg

Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712
SDG: LOCO HILL

Client Sample ID: BACKFILL

Lab Sample ID: 890-7712

Date Collected: 02/22/25 14:28

Matrix: Sol

Date Received: 02/24/25 15:30

Sample Depth: 0.5 - 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Benzene	<0.00200	U	0.00200		mg/Kg		02/25/25 11:38	02/25/25 14:20	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/25/25 11:38	02/25/25 14:20	
Toluene	<0.00200	U	0.00200		mg/Kg		02/25/25 11:38	02/25/25 14:20	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/25/25 11:38	02/25/25 14:20	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/25/25 11:38	02/25/25 14:20	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/25/25 11:38	02/25/25 14:20	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	102		70 - 130				02/25/25 11:38	02/25/25 14:20	
1,4-Difluorobenzene (Surr)	92		70 - 130				02/25/25 11:38	02/25/25 14:20	

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/25/25 14:20	

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total TPH	<50.0	U	50.0		mg/Kg			02/25/25 11:40	

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/24/25 17:22	02/25/25 11:40	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/24/25 17:22	02/25/25 11:40	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/24/25 17:22	02/25/25 11:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
1-Chlorooctane	133	S1+	70 - 130				02/24/25 17:22	02/25/25 11:40	
o-Terphenyl	105		70 - 130				02/24/25 17:22	02/25/25 11:40	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Chloride	1200		49.8		mg/Kg			02/25/25 22:00	

Eurofins Carlsb

March 4, 2024

- CDH completed an expanded backfill/topsoil assessment by collecting two composite soil samples
 - One 5-point composite sample (aliquots collected at a depth of 3-9 inches) collected from within the topsoil interval (0-1-foot bgs)
 - One 5-point composite sample (aliquots collected at a depth of 2.5-3 feet) collected from within the fill material (1-4 feet bgs)

March 6, 2024

- CDH received analytical results:
 - **Benzene, BTEX, and TPH again below laboratory reporting limits**
 - Chloride was below the Reclamation Standard (600 mg/kg) for both the topsoil (127 mg/kg) and backfill (160 mg/kg).

Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 8
SDG: LO

Client Sample ID: TOPSOIL

Lab Sample ID: 891

Date Collected: 03/04/25 09:32

Ma

Date Received: 03/05/25 13:40

Sample Depth: 3"-9"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Benzene	<0.00200	U F1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02
Toluene	<0.00200	U F1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		03/05/25 18:00	03/06/25 12:02
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		03/05/25 18:00	03/06/25 12:02
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	102		70 - 130	03/05/25 18:00	03/06/25 12:02
1,4-Difluorobenzene (Surr)	91		70 - 130	03/05/25 18:00	03/06/25 12:02

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/25 12:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Total TPH	<50.1	U	50.1		mg/Kg			03/06/25 02:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02:01
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02:01
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02:01

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
1-Chlorooctane	97		70 - 130	03/05/25 20:25	03/06/25 02:01
o-Terphenyl	89		70 - 130	03/05/25 20:25	03/06/25 02:01

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Chloride	127		10.0		mg/Kg			03/06/25 17:15

Client Sample ID: BACKFILL

Lab Sample ID: 891

Date Collected: 03/04/25 09:48

Ma

Date Received: 03/05/25 13:40

Sample Depth: 2.5'-3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Benzene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12:23
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12:23
Toluene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12:23
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/05/25 18:00	03/06/25 12:23
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/05/25 18:00	03/06/25 12:23
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	106		70 - 130	03/05/25 18:00	03/06/25 12:23

Eurofins

Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 81
SDG: LO

Client Sample ID: BACKFILL

Lab Sample ID: 891

Date Collected: 03/04/25 09:48

Ma

Date Received: 03/05/25 13:40

Sample Depth: 2.5'-3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
1,4-Difluorobenzene (Sur)	89		70 - 130	03/05/25 18:00	03/06/25 12:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/06/25 12:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Total TPH	<50.5	U	50.5		mg/Kg			03/06/25 02:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/05/25 20:27	03/06/25 02:01
Diesel Range Organics (Over C10-C26)	<50.5	U	50.5		mg/Kg		03/05/25 20:27	03/06/25 02:01
Oil Range Organics (Over C26-C36)	<50.5	U	50.5		mg/Kg		03/05/25 20:27	03/06/25 02:01
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed
1-Chlorooctane	77		70 - 130				03/05/25 20:27	03/06/25 02:01
o-Terphenyl	81		70 - 130				03/05/25 20:27	03/06/25 02:01

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Chloride	160		10.0		mg/Kg			03/06/25 17:26

Eurofins

March 13, 2025

CDH resubmitted the Remediation Closure Report (Application ID #442253)

March 25, 2025

Shelly Wells (OCD) denied Application ID #442253

- *“Reclamation denied for the following: The chloride exceedance from the sample collected on 2/22/2025 has not been thoroughly investigated. Using Field Notes from 2/22/2025, grab samples are required to be collected at the same depths and location as the four aliquots that were collected on 2/22/2025 to confirm both the backfill and topsoil are non-waste containing. Table 2 lists incorrect depths for the topsoil and backfill and should be updated to reflect the correct depths. Resubmit reclamation report to the OCD by 4/24/25.”*

April 9, 2025

CDH requested that further backfill assessment analytes be **reduced to chloride only** due to the fact that all three 5-point composite samples collected as part of the backfill assessment have indicated benzene, BTEX, and TPH were all below laboratory reporting limits.

April 11, 2025

Shelly Wells (OCD) denied CDH's request to be **reduced to chloride only** (see email below):

- “They must be tested for all Table I constituents as every responsible party does for reclamation approval.”
 - CDH has collected not one, but three 5-point composite samples from this small (746 square feet, 110 cubic yards) area and determined that benzene, BTEX, and TPH are below the laboratory reporting limits:
 - Analyzing the 5 discrete soil samples for benzene, BTEX, and TPH add no further protection to groundwater, human health, the environment, or property

Request for Reduced Analytes (Chloride-Only)

MR NM Operating/CDH request the OCD approve the sampling plan to collect 5 discrete soil samples from the depth intervals the 5 aliquot samples were collected on 2/22/2025 to confirm both backfill and topsoil are non-waste containing.

- Three discrete soil samples collected from a depth of 0.5-1 feet;
- Two discrete soil samples collected from a depth of 1.5-2 feet bgs; and
- **Analyze for chloride only**

Thank you!

Michael

Michael A. Wicker, P.G.

Senior Geologist

CDH Consulting, LLC

616.970.8459

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Friday, April 11, 2025 1:09 PM

To: Michael Wicker <mwicker@cdhconsult.com>

Cc: Devin Girtin <dgirtin@cdhconsult.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: RE: [EXTERNAL] RE: Request for Reduced Analytes (Chloride-Only) - Incident ID nAPP2322554757 - MR NM Operating LLC

Hi Michael,

The reasonable path forward is to collect four more discrete samples at the same locations where you collected the original aliquots that exceeded reclamation standards. They must be tested for all Table I constituents as every responsible party does for reclamation approval. Otherwise, you may resubmit the report for closure and that will be approved.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Michael Wicker <mwicker@cdhconsult.com>

Sent: Friday, April 11, 2025 9:17 AM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Cc: Devin Girtin <dgirtin@cdhconsult.com>

Subject: [EXTERNAL] RE: Request for Reduced Analytes (Chloride-Only) - Incident ID nAPP2322554757 - MR NM Operating LLC

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

Hi Shelly,

Your response indicates you do not understand our request. We request a short meeting to clear this up and establish a reasonable, agreed upon path forward for this project.

Thank you,
Michael

Michael A. Wicker, P.G.
Senior Geologist
CDH Consulting, LLC
616.970.8459

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Thursday, April 10, 2025 9:27 AM

To: Devin Girtin <dgirtin@cdhconsult.com>

Cc: Michael Wicker <mwicker@cdhconsult.com>

Subject: RE: [EXTERNAL] Request for Reduced Analytes (Chloride-Only) - Incident ID nAPP2322554757 - MR NM Operating LLC

Good morning Devin,

As this resampling event is due to anomalies that occurred with the original reclamation sampling event and every other responsible party to date has been required to collect a five point composite sample from the backfill, testing for all Table I constituents in or to get reclamation approval, this variance is not approved as it does not provide equal or better protection of fresh water, public health and the environment.

Sincerely,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Devin Girtin <dgirtin@cdhconsult.com>

Sent: Wednesday, April 9, 2025 1:41 PM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Cc: Michael Wicker <mwicker@cdhconsult.com>

Subject: [EXTERNAL] Request for Reduced Analytes (Chloride-Only) - Incident ID nAPP2322554757 - MR NM Operating LLC

You don't often get email from dgirtin@cdhconsult.com. [Learn why this is important](#)

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

Dear Shelly,

This email follows the voicemail I left earlier today regarding Incident ID nAPP2322554757.

CDH, on behalf of MR NM Operating LLC, is requesting a reduction in the required analytes for soil samples at this location to be chloride only.

As demonstrated by the attached laboratory results (please see attachments and screenshots below), there have been no previous detections above laboratory reporting limits for benzene, BTEX, GRO+DRO, or TPH (GRO+DRO+MRO) in all three samples collected as part of the backfill soil assessment. This data indicates these analytes are not contaminants of concern at this site for the backfill based on sampling conducted thus far.

Based on this consistent data, we formally request the OCD's approval to limit the required analyte list for future backfill soil sampling at this site to chloride only.

We await your review and response before proceeding with the next sampling event.

Thank you for your time and consideration.

Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASEJob ID: 890-7773-1
SDG: LOCO HILLS

Client Sample ID: TOPSOIL

Lab Sample ID: 890-7773-1

Date Collected: 03/04/25 09:32

Matrix: Solid

Date Received: 03/05/25 13:40

Sample Depth: 3"-9"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/05/25 18:00	03/06/25 12:02	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/05/25 18:00	03/06/25 12:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/25 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/06/25 02:01	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	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02:01	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02:01	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	03/05/25 20:25	03/06/25 02:01	1
o-Terphenyl	89		70 - 130	03/05/25 20:25	03/06/25 02:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		10.0		mg/Kg			03/06/25 17:19	1

Client Sample ID: BACKFILL

Lab Sample ID: 890-7773-2

Date Collected: 03/04/25 09:48

Matrix: Solid

Date Received: 03/05/25 13:40

Sample Depth: 2.5'-3'

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		03/05/25 18:00	03/06/25 12:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12:23	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/05/25 18:00	03/06/25 12:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/05/25 18:00	03/06/25 12:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/05/25 18:00	03/06/25 12:23	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

Client Sample ID: BACKFILL

Lab Sample ID: 890-7773-2

Date Collected: 03/04/25 09:48

Matrix: Solid

Date Received: 03/05/25 13:40

Sample Depth: 2.5'-3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Sum)	89		70 - 130	03/05/25 18:00	03/06/25 12:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/06/25 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/06/25 02:01	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	<50.5	U	50.5		mg/Kg		03/05/25 20:27	03/06/25 02:01	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/05/25 20:27	03/06/25 02:01	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/05/25 20:27	03/06/25 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				03/05/25 20:27	03/06/25 02:01	1
o-Terphenyl	81		70 - 130				03/05/25 20:27	03/06/25 02:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		10.0		mg/Kg			03/06/25 17:26	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1
SDG: LOCO HILLS

Client Sample ID: BACKFILL

Lab Sample ID: 890-7712-1

Date Collected: 02/22/25 14:28

Matrix: Solid

Date Received: 02/24/25 15:30

Sample Depth: 0.5 - 2'

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		02/25/25 11:38	02/25/25 14:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/25/25 11:38	02/25/25 14:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/25/25 11:38	02/25/25 14:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/25/25 11:38	02/25/25 14:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/25/25 11:38	02/25/25 14:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/25/25 11:38	02/25/25 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				02/25/25 11:38	02/25/25 14:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130				02/25/25 11:38	02/25/25 14:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/25/25 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/25/25 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/24/25 17:22	02/25/25 11:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/24/25 17:22	02/25/25 11:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/24/25 17:22	02/25/25 11:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				02/24/25 17:22	02/25/25 11:40	1
o-Terphenyl	105		70 - 130				02/24/25 17:22	02/25/25 11:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		49.8		mg/Kg			02/25/25 22:00	5

Eurofins Carlsbad

Devin Girtin, PG, PMP

CDH Consulting, LLC

303-895-7556

dgirtin@CDHconsult.com



www.CDHconsult.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Tuesday, March 25, 2025 2:23 PM

To: Michael Wicker <mwicker@cdhconsult.com>

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 442253

To whom it may concern (c/o Michael Wicker for MR NM Operating LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2322554757, for the following reasons:

- **Reclamation denied for the following: The chloride exceedance from the sample collected on 2/22/2025 has not been thoroughly investigated. Using Field Notes from 2/22/2025, grab samples are required to be collected at the same depths and location as the four aliquots that were collected on 2/22/2025 to confirm both the backfill and topsoil are non-waste containing. Table 2 lists incorrect depths for the topsoil and backfill and should be updated to reflect the correct depths. Resubmit reclamation report to the OCD by 4/24/25.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 442253.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520

Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

ATTACHMENT B

Waste Manifest Summary

Facility	Manifest Date	Manifest #	Ticket ID	Invoice #	Generator	Ordered By	API #	Well Name	Well Number	Hauler Name	Product Name	Unit	Quantity	Rig
CRI	1/10/2025	HW-724758	700-1672289		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/10/2025	HW-729374	700-1672288		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/6/2025	HW-728571	700-1670683		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/6/2025	HW-724757	700-1670639		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/6/2025	HW-729375	700-1670636		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/6/2025	HW-728570	700-1670525		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/6/2025	HW-725563	700-1670511		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/6/2025	HW-729376	700-1670496		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-729377	700-1669637		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-728569	700-1669633		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-725562	700-1669632		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-725766	700-1669614		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	BDS ENTERPRISES LLC	Contaminated Soil (RCRA Exempt)	yards	14	NON-DRILLING
CRI	1/3/2025	HW-728702	700-1669610		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	BDS ENTERPRISES LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-729112	700-1669564		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-729056	700-1669563		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-729630	700-1669562		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-725765	700-1669534		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	BDS ENTERPRISES LLC	Contaminated Soil (RCRA Exempt)	yards	14	NON-DRILLING
CRI	1/3/2025	HW-728700	700-1669527		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	BDS ENTERPRISES LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-728701	700-1669453		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	BDS ENTERPRISES LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-729310	700-1669450		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-725302	700-1669448		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-729055	700-1669446		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-725764	700-1669429		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	BDS ENTERPRISES LLC	Contaminated Soil (RCRA Exempt)	yards	14	NON-DRILLING
CRI	1/3/2025	HW-725536	700-1669362		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	BDS ENTERPRISES LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-725535	700-1669361		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	BDS ENTERPRISES LLC	Contaminated Soil (RCRA Exempt)	yards	14	NON-DRILLING
CRI	1/3/2025	HW-730102	700-1669357		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-729111	700-1669355		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-729373	700-1669356		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/2/2025	HW-729629	700-1669140		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/2/2025	HW-728594	700-1669139		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/2/2025	HW-729323	700-1669132		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/2/2025	HW-725534	700-1669133		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	BDS ENTERPRISES LLC	Contaminated Soil (RCRA Exempt)	yards	14	NON-DRILLING
CRI	1/2/2025	HW-725533	700-1669047		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	BDS ENTERPRISES LLC	Contaminated Soil (RCRA Exempt)	yards	14	NON-DRILLING
CRI	1/2/2025	HW-725505	700-1669043		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/2/2025	HW-728595	700-1669042		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/2/2025	HW-729321	700-1669032		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/2/2025	HW-725507	700-1668923		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	BDS ENTERPRISES LLC	Contaminated Soil (RCRA Exempt)	yards	14	NON-DRILLING
CRI	1/2/2025	HW-725503	700-1668916		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/2/2025	HW-728593	700-1668915		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/2/2025	HW-729320	700-1668887		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/2/2025	HW-725506	700-1668844		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	BDS ENTERPRISES LLC	Contaminated Soil (RCRA Exempt)	yards	14	NON-DRILLING
CRI	1/2/2025	HW-725303	700-1668840		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/2/2025	HW-729054	700-1668839		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/2/2025	HW-729322	700-1668822		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/31/2024	HW-730101	700-1668829	C294552	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/31/2024	HW-729343	700-1668890	C294552	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/31/2024	HW-729668	700-1668288	C294552	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/31/2024	HW-729667	700-1668199	C294552	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/31/2024	HW-730100	700-1668198	C294552	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/31/2024	HW-729342	700-1668197	C294552	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/31/2024	HW-729357	700-1668106	C294552	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/31/2024	HW-729356	700-1668105	C294552	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/31/2024	HW-729663	700-1668096	C294552	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/30/2024	HW-729341	700-1667879	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/30/2024	HW-729073	700-1667877	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/30/2024	HW-729664	700-1667873	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/30/2024	HW-729325	700-1667794	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/30/2024	HW-730099	700-1667793	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/30/2024	HW-729681	700-1667792	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/30/2024	HW-729072	700-1667728	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/30/2024	HW-729666	700-1667724	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/30/2024	HW-729680	700-1667722	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/24/2024	HW-729053	700-1665917	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	25 TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING

Facility	Manifest Date	Manifest #	Ticket ID	Invoice #	Generator	Ordered By	API #	Well Name	Well Number	Hauler Name	Product Name	Unit	Quantity	Rig
CRI	12/24/2024	HW-729628	700-1665916	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/24/2024	HW-729665	700-1665911	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/24/2024	HW-729627	700-1665880	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/24/2024	HW-721070	700-1665879	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/24/2024	HW-721065	700-1665875	C294110	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/23/2024	HW-721064	700-1665581	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/23/2024	HW-729626	700-1665580	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/23/2024	HW-729625	700-1665579	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/23/2024	HW-721062	700-1665462	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/23/2024	HW-728374	700-1665455	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/23/2024	HW-728373	700-1665456	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/20/2024	HW-728372	700-1664519	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/20/2024	HW-721020	700-1664517	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/20/2024	HW-728368	700-1664411	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/20/2024	HW-721071	700-1664407	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/20/2024	HW-721069	700-1664324	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/20/2024	HW-728366	700-1664322	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/20/2024	HW-721063	700-1664319	C293399	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING

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ATTACHMENT C

Photographic Log

PHOTOGRAPHIC LOG
MR NM Operating, LLC
Water Disposal Flowline Release
January 3 & 10, 2025



Photo 1: Excavation overview, facing southeast



Photo 2: Excavation overview, facing southeast

PHOTOGRAPHIC LOG
MR NM Operating, LLC
Water Disposal Flowline Release
January 3 & 10, 2025



Photo 3: ~1 foot of topsoil observed in northeast corner of excavation, facing northeast

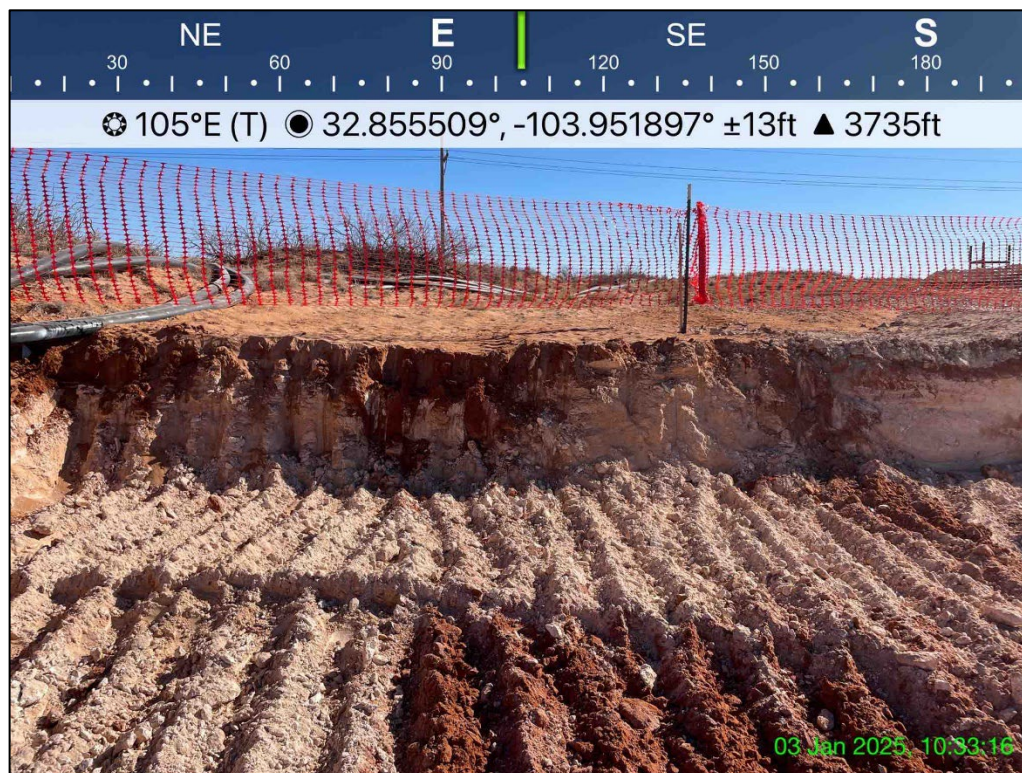


Photo 4: Excavation eastern sidewall

PHOTOGRAPHIC LOG
MR NM Operating, LLC
Water Disposal Flowline Release
January 3 & 10, 2025



Photo 5: Excavation overview, facing northwest



Photo 6: Excavation overview, facing north

PHOTOGRAPHIC LOG
 MR NM Operating, LLC
 Water Disposal Flowline Release
 January 3 & 10, 2025

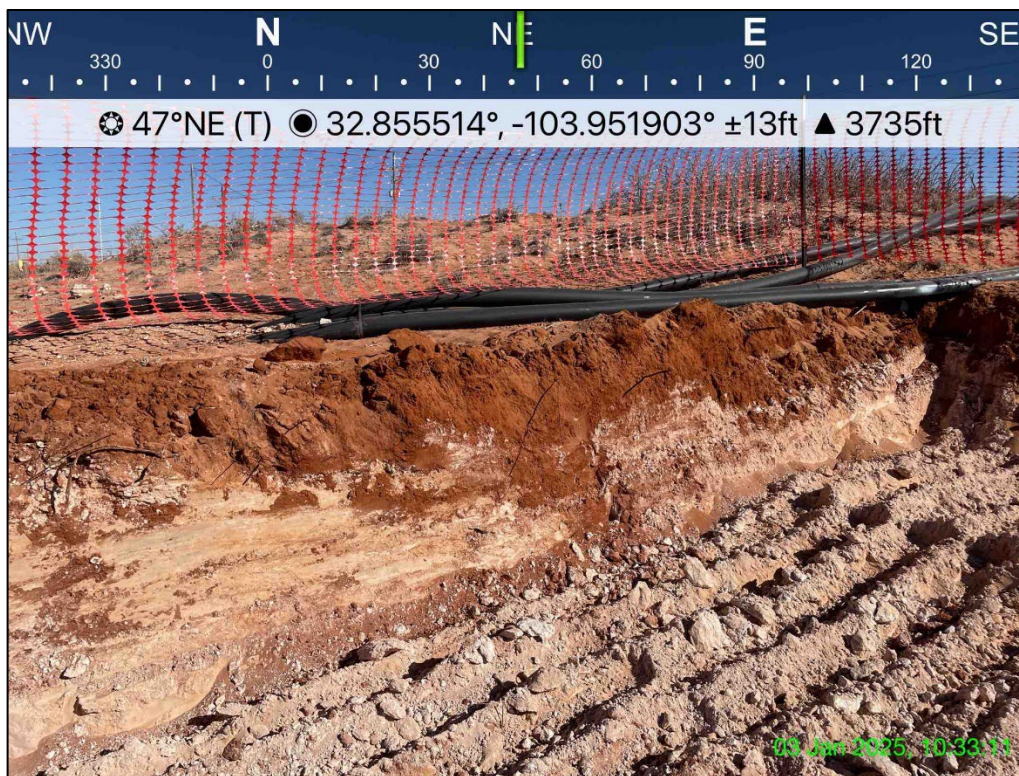


Photo 7: ~1 foot of topsoil observed in northeast corner of excavation, facing northeast

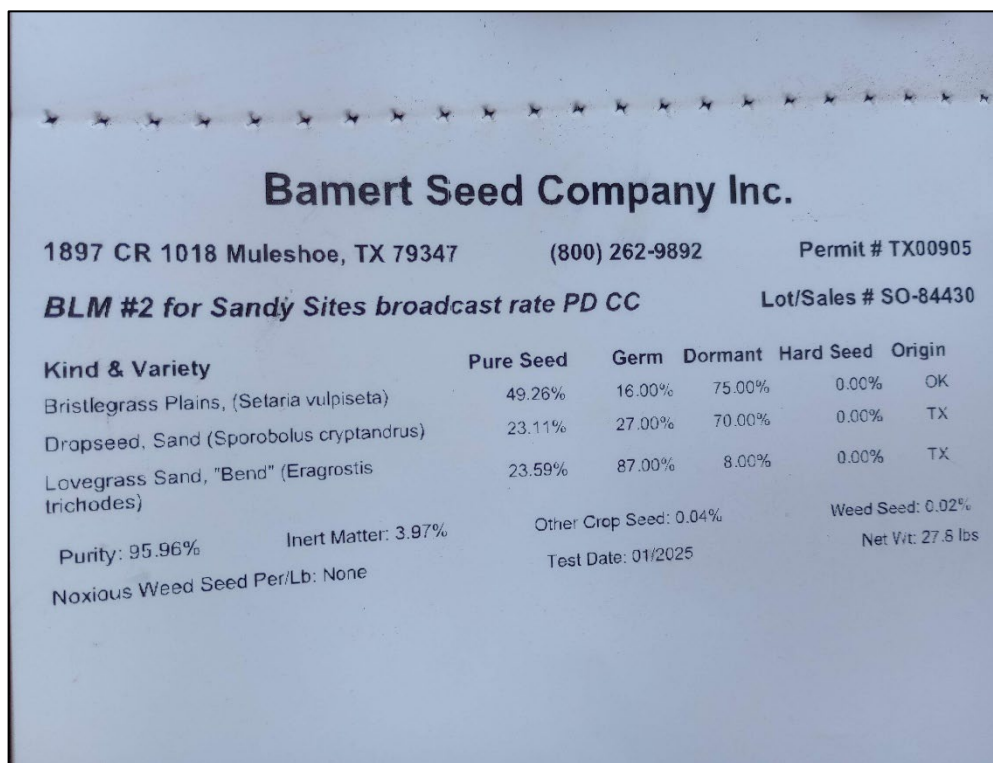


Photo 8: BLM #2 for sandy sites broadcast seeded within off-pad/off-road area

PHOTOGRAPHIC LOG
MR NM Operating, LLC
Water Disposal Flowline Release
January 3 & 10, 2025



Photo 9: Area backfilled with topsoil, seeded with BLM #2 for sandy sites



Photo 10: Area backfilled with topsoil, seeded with BLM #2 for sandy sites

PHOTOGRAPHIC LOG
MR NM Operating, LLC
Water Disposal Flowline Release
January 3 & 10, 2025

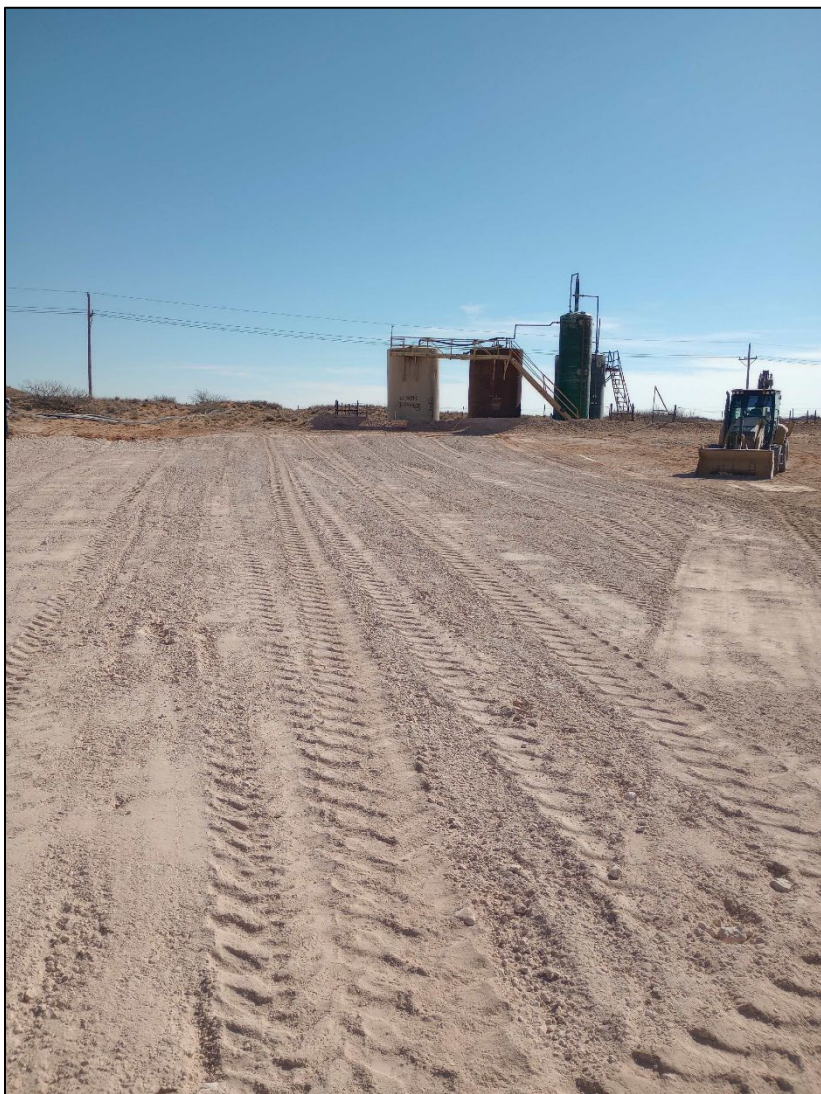


Photo 11: Site restoration



Photo 12: Site restoration

ATTACHMENT D

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Wicker
CDH Consulting
9446 Clermont St,
Thornton, Colorado 80229
Generated 12/26/2024 3:18:42 PM

JOB DESCRIPTION

WESTALL LINE RELEASE
LOCO HILLS, NM

JOB NUMBER

890-7509-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

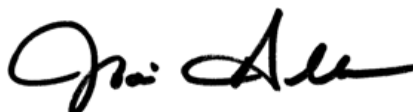
Eurofins Carlsbad

Job Notes

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

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

Authorization



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12/26/2024 3:18:42 PM

Authorized for release by
Jodi Allen, Project Manager I
Jodi.Allen@et.eurofinsus.com
(281)520-2865

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Laboratory Job ID: 890-7509-1
SDG: LOCO HILLS, NM

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Definitions/Glossary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1
SDG: LOCO HILLS, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: CDH Consulting
Project: WESTALL LINE RELEASE

Job ID: 890-7509-1

Job ID: 890-7509-1

Eurofins Carlsbad

Job Narrative 890-7509-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 12/20/2024 4:37 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW 04 (890-7509-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SW 04 (890-7509-1) and (LCSD 880-98818/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-98818/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-98818 and analytical batch 880-98811 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). These analytes were biased high in the LCSD and were within the control limits for the laboratory control sample (LCS); therefore, the data have been reported.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98818 and analytical batch 880-98811 was outside the upper control limits.

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

HPLC/IC

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

Eurofins Carlsbad

Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1
SDG: LOCO HILLS, NM

Client Sample ID: SW 04

Lab Sample ID: 890-7509-1

Date Collected: 12/20/24 15:09

Matrix: Solid

Date Received: 12/20/24 16:37

Sample Depth: 0 - 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/26/24 08:36	12/26/24 12:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/26/24 08:36	12/26/24 12:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/26/24 08:36	12/26/24 12:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/26/24 08:36	12/26/24 12:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/26/24 08:36	12/26/24 12:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/26/24 08:36	12/26/24 12:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				12/26/24 08:36	12/26/24 12:29	1
1,4-Difluorobenzene (Surr)	91		70 - 130				12/26/24 08:36	12/26/24 12:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/24 12:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 15:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U ** *1	50.0		mg/Kg		12/26/24 12:00	12/26/24 15:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		12/26/24 12:00	12/26/24 15:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 12:00	12/26/24 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				12/26/24 12:00	12/26/24 15:26	1
o-Terphenyl	69	S1-	70 - 130				12/26/24 12:00	12/26/24 15:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.2		9.98		mg/Kg			12/26/24 12:10	1

Surrogate Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1
SDG: LOCO HILLS, NM

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7509-1	SW 04	120	91
890-7509-1 MS	SW 04	101	96
890-7509-1 MSD	SW 04	99	100
LCS 880-98772/1-A	Lab Control Sample	94	101
LCSD 880-98772/2-A	Lab Control Sample Dup	94	100
MB 880-98772/5-A	Method Blank	108	83
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7509-1	SW 04	69 S1-	69 S1-
LCS 880-98818/2-A	Lab Control Sample	134 S1+	115
LCSD 880-98818/3-A	Lab Control Sample Dup	166 S1+	141 S1+
MB 880-98818/1-A	Method Blank	136 S1+	133 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1
SDG: LOCO HILLS, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98772/5-A

Matrix: Solid

Analysis Batch: 98774

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:36	12/26/24 12:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:36	12/26/24 12:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:36	12/26/24 12:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/26/24 08:36	12/26/24 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/26/24 08:36	12/26/24 12:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:36	12/26/24 12:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	12/26/24 08:36	12/26/24 12:07	1
1,4-Difluorobenzene (Surr)	83		70 - 130	12/26/24 08:36	12/26/24 12:07	1

Lab Sample ID: LCS 880-98772/1-A

Matrix: Solid

Analysis Batch: 98774

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1093		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.09946		mg/Kg		99	70 - 130
Toluene	0.100	0.09826		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1977		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-98772/2-A

Matrix: Solid

Analysis Batch: 98774

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98772

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1141		mg/Kg		114	70 - 130	4	35
Ethylbenzene	0.100	0.1045		mg/Kg		105	70 - 130	5	35
Toluene	0.100	0.1035		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2076		mg/Kg		104	70 - 130	5	35
o-Xylene	0.100	0.1053		mg/Kg		105	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-7509-1 MS

Matrix: Solid

Analysis Batch: 98774

Client Sample ID: SW 04

Prep Type: Total/NA

Prep Batch: 98772

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1039		mg/Kg		104	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09343		mg/Kg		94	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1
SDG: LOCO HILLS, NM

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

Lab Sample ID: 890-7509-1 MS
Matrix: Solid
Analysis Batch: 98774

Client Sample ID: SW 04
Prep Type: Total/NA
Prep Batch: 98772

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00199	U	0.0996	0.09379		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1856		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09443		mg/Kg		95	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		70 - 130						
1,4-Difluorobenzene (Surr)	96		70 - 130						

Lab Sample ID: 890-7509-1 MSD
Matrix: Solid
Analysis Batch: 98774

Client Sample ID: SW 04
Prep Type: Total/NA
Prep Batch: 98772

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1076		mg/Kg		107	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.101	0.09758		mg/Kg		97	70 - 130	4	35
Toluene	<0.00199	U	0.101	0.09792		mg/Kg		97	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1939		mg/Kg		96	70 - 130	4	35
o-Xylene	<0.00199	U	0.101	0.09873		mg/Kg		98	70 - 130	4	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	99		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

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

Lab Sample ID: MB 880-98818/1-A
Matrix: Solid
Analysis Batch: 98811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	136	S1+	70 - 130						
o-Terphenyl	133	S1+	70 - 130						

Lab Sample ID: LCS 880-98818/2-A
Matrix: Solid
Analysis Batch: 98811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1097		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1118		mg/Kg		112	70 - 130

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1
SDG: LOCO HILLS, NM

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

Lab Sample ID: LCS 880-98818/2-A

Matrix: Solid

Analysis Batch: 98811

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98818

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	134	S1+	70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: LCSD 880-98818/3-A

Matrix: Solid

Analysis Batch: 98811

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98818

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1357	*+ *1	mg/Kg		136	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	1000	1397	*+ *1	mg/Kg		140	70 - 130	22	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	166	S1+	70 - 130
o-Terphenyl	141	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98783/1-A

Matrix: Solid

Analysis Batch: 98786

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/26/24 10:43	1

Lab Sample ID: LCS 880-98783/2-A

Matrix: Solid

Analysis Batch: 98786

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	229.4		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-98783/3-A

Matrix: Solid

Analysis Batch: 98786

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	229.8		mg/Kg		92	90 - 110	0	20

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QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1
SDG: LOCO HILLS, NM

GC VOA

Prep Batch: 98772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7509-1	SW 04	Total/NA	Solid	5035	
MB 880-98772/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98772/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98772/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7509-1 MS	SW 04	Total/NA	Solid	5035	
890-7509-1 MSD	SW 04	Total/NA	Solid	5035	

Analysis Batch: 98774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7509-1	SW 04	Total/NA	Solid	8021B	98772
MB 880-98772/5-A	Method Blank	Total/NA	Solid	8021B	98772
LCS 880-98772/1-A	Lab Control Sample	Total/NA	Solid	8021B	98772
LCSD 880-98772/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98772
890-7509-1 MS	SW 04	Total/NA	Solid	8021B	98772
890-7509-1 MSD	SW 04	Total/NA	Solid	8021B	98772

Analysis Batch: 98844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7509-1	SW 04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 98811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7509-1	SW 04	Total/NA	Solid	8015B NM	98818
MB 880-98818/1-A	Method Blank	Total/NA	Solid	8015B NM	98818
LCS 880-98818/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98818
LCSD 880-98818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98818

Prep Batch: 98818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7509-1	SW 04	Total/NA	Solid	8015NM Prep	
MB 880-98818/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98818/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7509-1	SW 04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7509-1	SW 04	Soluble	Solid	DI Leach	
MB 880-98783/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98783/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98783/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 98786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7509-1	SW 04	Soluble	Solid	300.0	98783

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QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1
SDG: LOCO HILLS, NM

HPLC/IC (Continued)

Analysis Batch: 98786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98783/1-A	Method Blank	Soluble	Solid	300.0	98783
LCS 880-98783/2-A	Lab Control Sample	Soluble	Solid	300.0	98783
LCSD 880-98783/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98783

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Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1
SDG: LOCO HILLS, NM

Client Sample ID: SW 04
Date Collected: 12/20/24 15:09
Date Received: 12/20/24 16:37

Lab Sample ID: 890-7509-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98772	MNR	EET MID	12/26/24 08:36
Total/NA	Analysis	8021B		1	98774	MNR	EET MID	12/26/24 12:29
Total/NA	Analysis	Total BTEX		1	98844	SM	EET MID	12/26/24 12:29
Total/NA	Analysis	8015 NM		1	98868	SM	EET MID	12/26/24 15:26
Total/NA	Prep	8015NM Prep			98818	TKC	EET MID	12/26/24 12:00
Total/NA	Analysis	8015B NM		1	98811	TKC	EET MID	12/26/24 15:26
Soluble	Leach	DI Leach			98783	CH	EET MID	12/26/24 09:10
Soluble	Analysis	300.0		1	98786	CH	EET MID	12/26/24 12:10

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

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Accreditation/Certification Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1
SDG: LOCO HILLS, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1
SDG: LOCO HILLS, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1
SDG: LOCO HILLS, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7509-1	SW 04	Solid	12/20/24 15:09	12/20/24 16:37	0 - 4'

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Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
Little Rock, AR (501) 224-5060

Chain of Custody

Work Order No.:

Page 1 of 1

Project Manager:	Michael Weber	Bill to: (if different)	
Company Name:	CDH Consulting	Company Name:	
Address:	9446 Clement Street	Address:	
City, State ZIP:	Thurston, CO	City, State ZIP:	
Phone:	616-970-8459	Email:	

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:		Westfall Lind Vehicle		Turn Around			
Project Number:				☐ Routine ☒ Rush 24hr			
Project Location:		Lico Hills NM		Due Date:		12/26	
Sampler's Name:		Elizabeth Nicks		TAT starts the day received by the lab, if received by 4:30pm			
PO #:							
SAMPLE RECEIPT							
Samples Received In tact:		Temp Blank: Yes ☒ No ☐		Thermometer ID:		Wet Ice: Yes ☒ No ☐	
Cooler Custody Seals:		Yes No ☒ N/A ☐		Correction Factor:		Temp: -0.2	
Sample Custody Seals:		Yes No ☒ N/A ☐		Temperature Reading:		6.0	
Total Containers:				Corrected Temperature:		5.8	
				Parameters			
				Pres. Code			
ANALYSIS REQUEST							
Preservative Codes							
None, NO				DI Water, H ₂ O			
Cool: Cool				MeOH: Me			
HCL: HC				HNO ₃			
H ₂ SO ₄ : H ₂				NaOH: Na			
H ₃ PO ₄ : HP							
NaHSO ₄ : NABIS							
Na ₂ S ₂ O ₃ : NaSO ₃							
Zn Acetate+NaOH: Zn							
NaOH+Ascorbic Acid: SASC							

[illegible]

Total	200-7-6010	200-8-70020	8RCRA 1990A Hazard II A	Sr As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Ni K Se Ag SnO ₂	Nb Sr H Ga U V Zn
Circle Method(s) and Metal(s) to be analyzed			TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	
Notes: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.					
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	12/20/637 ²			
2		4			
5		6			

Dated Date: 08/27/2020 By: 2020

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: CDH Consulting

Job Number: 890-7509-1
SDG Number: LOCO HILLS, NM

Login Number: 7509

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: CDH Consulting

Job Number: 890-7509-1
SDG Number: LOCO HILLS, NM

Login Number: 7509

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 12/26/24 11:11 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: Michael Wicker
CDH Consulting
9446 Clermont St,
Thornton, Colorado 80229

Generated 1/7/2025 7:58:26 PM

JOB DESCRIPTION

WESTALL LINE RELEASE
LOCO HILLS

JOB NUMBER

890-7542-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

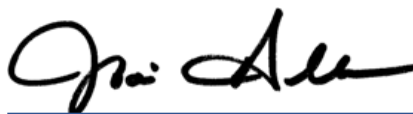
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Job Notes

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



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Authorized for release by
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Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Laboratory Job ID: 890-7542-1
SDG: LOCO HILLS

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Definitions/Glossary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: CDH Consulting
Project: WESTALL LINE RELEASE

Job ID: 890-7542-1

Job ID: 890-7542-1

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Job Narrative
890-7542-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/6/2025 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS 01 (890-7542-1), FS 02 (890-7542-2), FS 03 (890-7542-3), FS 04 (890-7542-4), FS 05 (890-7542-5), FS 06 (890-7542-6), FS 07 (890-7542-7), FS 08 (890-7542-8), FS 09 (890-7542-9), FS 10 (890-7542-10), FS 11 (890-7542-11), FS 12 (890-7542-12), SW 01 (890-7542-13), SW 02 (890-7542-14), SW 03 (890-7542-15), SW 05 (890-7542-16), SW 06 (890-7542-17), FS 13 (890-7542-18) and FS 14 (890-7542-19).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-99660 and analytical batch 880-99659 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-99660 and analytical batch 880-99659 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-99660/2-A) and (LCSD 880-99660/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-99661/2-A) and (LCSD 880-99661/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-99661 and analytical batch 880-99653 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-99667/2-A) and (LCSD 880-99667/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: FS 14 (890-7542-19). Percent recoveries are based on the amount spiked.

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

HPLC/IC

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: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 01

Lab Sample ID: 890-7542-1

Date Collected: 01/03/25 13:10

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/07/25 08:40	01/07/25 11:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/07/25 08:40	01/07/25 11:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/07/25 08:40	01/07/25 11:36	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/07/25 08:40	01/07/25 11:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/07/25 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/07/25 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 14:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 14:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 09:45	01/07/25 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	01/07/25 09:45	01/07/25 14:05	1
o-Terphenyl	111		70 - 130	01/07/25 09:45	01/07/25 14:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	337		10.0		mg/Kg			01/07/25 10:48	1

Client Sample ID: FS 02

Lab Sample ID: 890-7542-2

Date Collected: 01/03/25 13:00

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 11:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 11:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 11:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:40	01/07/25 11:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:40	01/07/25 11:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	01/07/25 08:40	01/07/25 11:56	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 02

Lab Sample ID: 890-7542-2

Date Collected: 01/03/25 13:00

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	01/07/25 08:40	01/07/25 11:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/07/25 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		01/07/25 09:45	01/07/25 14:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		01/07/25 09:45	01/07/25 14:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:45	01/07/25 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				01/07/25 09:45	01/07/25 14:20	1
o-Terphenyl	112		70 - 130				01/07/25 09:45	01/07/25 14:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	396		9.92		mg/Kg			01/07/25 10:54	1

Client Sample ID: FS 03

Lab Sample ID: 890-7542-3

Date Collected: 01/03/25 12:50

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 12:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 12:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 12:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:40	01/07/25 12:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:40	01/07/25 12:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	01/07/25 08:40	01/07/25 12:17	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/07/25 08:40	01/07/25 12:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/07/25 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/07/25 14:36	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 03

Lab Sample ID: 890-7542-3

Date Collected: 01/03/25 12:50

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 14:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 14:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 09:45	01/07/25 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				01/07/25 09:45	01/07/25 14:36	1
o-Terphenyl	103		70 - 130				01/07/25 09:45	01/07/25 14:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		9.92		mg/Kg			01/07/25 10:59	1

Client Sample ID: FS 04

Lab Sample ID: 890-7542-4

Date Collected: 01/03/25 12:40

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 12:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 12:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 12:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:40	01/07/25 12:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:40	01/07/25 12:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				01/07/25 08:40	01/07/25 12:37	1
1,4-Difluorobenzene (Surr)	105		70 - 130				01/07/25 08:40	01/07/25 12:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/07/25 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 14:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 14:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 09:45	01/07/25 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				01/07/25 09:45	01/07/25 14:52	1
o-Terphenyl	106		70 - 130				01/07/25 09:45	01/07/25 14:52	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 04

Lab Sample ID: 890-7542-4

Date Collected: 01/03/25 12:40

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	978		9.96		mg/Kg			01/07/25 11:05	1

Client Sample ID: FS 05

Lab Sample ID: 890-7542-5

Date Collected: 01/03/25 12:30

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 12:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 12:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 12:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:40	01/07/25 12:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:40	01/07/25 12:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 12:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/07/25 08:40	01/07/25 12:58	1
1,4-Difluorobenzene (Surr)	104		70 - 130				01/07/25 08:40	01/07/25 12:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/07/25 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/07/25 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U **	49.7		mg/Kg		01/07/25 09:45	01/07/25 15:08	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7		mg/Kg		01/07/25 09:45	01/07/25 15:08	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/07/25 09:45	01/07/25 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				01/07/25 09:45	01/07/25 15:08	1
o-Terphenyl	111		70 - 130				01/07/25 09:45	01/07/25 15:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2020		49.7		mg/Kg			01/07/25 13:04	5

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 06

Lab Sample ID: 890-7542-6

Date Collected: 01/03/25 12:20

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 13:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 13:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 13:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:40	01/07/25 13:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:40	01/07/25 13:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				01/07/25 08:40	01/07/25 13:18	1
1,4-Difluorobenzene (Surr)	104		70 - 130				01/07/25 08:40	01/07/25 13:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/07/25 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U **	49.7		mg/Kg		01/07/25 09:45	01/07/25 15:39	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7		mg/Kg		01/07/25 09:45	01/07/25 15:39	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/07/25 09:45	01/07/25 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				01/07/25 09:45	01/07/25 15:39	1
o-Terphenyl	112		70 - 130				01/07/25 09:45	01/07/25 15:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	397		9.92		mg/Kg			01/07/25 11:28	1

Client Sample ID: FS 07

Lab Sample ID: 890-7542-7

Date Collected: 01/03/25 13:15

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/07/25 08:40	01/07/25 13:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/07/25 08:40	01/07/25 13:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/07/25 08:40	01/07/25 13:39	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/07/25 08:40	01/07/25 13:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/07/25 08:40	01/07/25 13:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/07/25 08:40	01/07/25 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/07/25 08:40	01/07/25 13:39	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 07

Lab Sample ID: 890-7542-7

Date Collected: 01/03/25 13:15

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	01/07/25 08:40	01/07/25 13:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/07/25 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/07/25 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/07/25 09:45	01/07/25 15:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/07/25 09:45	01/07/25 15:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 09:45	01/07/25 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				01/07/25 09:45	01/07/25 15:56	1
o-Terphenyl	104		70 - 130				01/07/25 09:45	01/07/25 15:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235		10.1		mg/Kg			01/07/25 11:34	1

Client Sample ID: FS 08

Lab Sample ID: 890-7542-8

Date Collected: 01/03/25 13:05

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/07/25 08:40	01/07/25 13:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/07/25 08:40	01/07/25 13:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/07/25 08:40	01/07/25 13:59	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/07/25 08:40	01/07/25 13:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/07/25 08:40	01/07/25 13:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/07/25 08:40	01/07/25 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	01/07/25 08:40	01/07/25 13:59	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/07/25 08:40	01/07/25 13:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/07/25 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/07/25 16:11	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 08

Lab Sample ID: 890-7542-8

Date Collected: 01/03/25 13:05

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 16:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 16:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 09:45	01/07/25 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				01/07/25 09:45	01/07/25 16:11	1
o-Terphenyl	111		70 - 130				01/07/25 09:45	01/07/25 16:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	304		10.1		mg/Kg			01/07/25 11:39	1

Client Sample ID: FS 09

Lab Sample ID: 890-7542-9

Date Collected: 01/03/25 12:55

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 14:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 14:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 14:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:40	01/07/25 14:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:40	01/07/25 14:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				01/07/25 08:40	01/07/25 14:20	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/07/25 08:40	01/07/25 14:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/07/25 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/07/25 16:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 16:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 16:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 09:45	01/07/25 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				01/07/25 09:45	01/07/25 16:28	1
o-Terphenyl	108		70 - 130				01/07/25 09:45	01/07/25 16:28	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 09

Lab Sample ID: 890-7542-9

Date Collected: 01/03/25 12:55

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	244		10.1		mg/Kg			01/07/25 11:45	1

Client Sample ID: FS 10

Lab Sample ID: 890-7542-10

Date Collected: 01/03/25 12:45

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 14:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 14:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 14:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 14:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 14:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/07/25 08:40	01/07/25 14:40	1
1,4-Difluorobenzene (Surr)	105		70 - 130				01/07/25 08:40	01/07/25 14:40	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			01/07/25 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/07/25 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9		mg/Kg		01/07/25 09:45	01/07/25 16:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		01/07/25 09:45	01/07/25 16:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 09:45	01/07/25 16:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				01/07/25 09:45	01/07/25 16:44	1
o-Terphenyl	120		70 - 130				01/07/25 09:45	01/07/25 16:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	243		10.1		mg/Kg			01/07/25 11:51	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 11

Lab Sample ID: 890-7542-11

Date Collected: 01/03/25 12:35

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/07/25 08:46	01/07/25 11:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/07/25 08:46	01/07/25 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/07/25 08:46	01/07/25 11:35	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/07/25 08:46	01/07/25 11:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/07/25 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/07/25 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U **	49.7		mg/Kg		01/07/25 09:45	01/07/25 17:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7		mg/Kg		01/07/25 09:45	01/07/25 17:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/07/25 09:45	01/07/25 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	01/07/25 09:45	01/07/25 17:01	1
o-Terphenyl	106		70 - 130	01/07/25 09:45	01/07/25 17:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	325		10.1		mg/Kg			01/07/25 12:08	1

Client Sample ID: FS 12

Lab Sample ID: 890-7542-12

Date Collected: 01/03/25 12:25

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:46	01/07/25 11:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:46	01/07/25 11:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:46	01/07/25 11:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:46	01/07/25 11:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:46	01/07/25 11:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:46	01/07/25 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	01/07/25 08:46	01/07/25 11:55	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 12

Lab Sample ID: 890-7542-12

Date Collected: 01/03/25 12:25

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	01/07/25 08:46	01/07/25 11:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 11:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/07/25 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		01/07/25 09:45	01/07/25 17:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		01/07/25 09:45	01/07/25 17:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:45	01/07/25 17:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				01/07/25 09:45	01/07/25 17:16	1
o-Terphenyl	114		70 - 130				01/07/25 09:45	01/07/25 17:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	581		9.94		mg/Kg			01/07/25 12:13	1

Client Sample ID: SW 01

Lab Sample ID: 890-7542-13

Date Collected: 01/03/25 14:40

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:46	01/07/25 12:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:46	01/07/25 12:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:46	01/07/25 12:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:46	01/07/25 12:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:46	01/07/25 12:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:46	01/07/25 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/07/25 08:46	01/07/25 12:16	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/07/25 08:46	01/07/25 12:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/07/25 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/07/25 17:33	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: SW 01

Lab Sample ID: 890-7542-13

Date Collected: 01/03/25 14:40

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 17:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 17:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 09:45	01/07/25 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				01/07/25 09:45	01/07/25 17:33	1
o-Terphenyl	109		70 - 130				01/07/25 09:45	01/07/25 17:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	261		9.90		mg/Kg			01/07/25 12:30	1

Client Sample ID: SW 02

Lab Sample ID: 890-7542-14

Date Collected: 01/03/25 14:45

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:46	01/07/25 12:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:46	01/07/25 12:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:46	01/07/25 12:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:46	01/07/25 12:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:46	01/07/25 12:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:46	01/07/25 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				01/07/25 08:46	01/07/25 12:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130				01/07/25 08:46	01/07/25 12:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/07/25 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 17:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 17:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 09:45	01/07/25 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				01/07/25 09:45	01/07/25 17:48	1
o-Terphenyl	105		70 - 130				01/07/25 09:45	01/07/25 17:48	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: SW 02

Lab Sample ID: 890-7542-14

Date Collected: 01/03/25 14:45

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	796		10.0		mg/Kg			01/07/25 12:36	1

Client Sample ID: SW 03

Lab Sample ID: 890-7542-15

Date Collected: 01/03/25 13:20

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:46	01/07/25 12:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:46	01/07/25 12:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:46	01/07/25 12:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:46	01/07/25 12:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:46	01/07/25 12:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:46	01/07/25 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				01/07/25 08:46	01/07/25 12:57	1
1,4-Difluorobenzene (Surr)	98		70 - 130				01/07/25 08:46	01/07/25 12:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/07/25 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/07/25 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 18:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		01/07/25 09:45	01/07/25 18:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 09:45	01/07/25 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				01/07/25 09:45	01/07/25 18:04	1
o-Terphenyl	105		70 - 130				01/07/25 09:45	01/07/25 18:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		9.96		mg/Kg			01/07/25 12:42	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: SW 05

Lab Sample ID: 890-7542-16

Date Collected: 01/03/25 14:30

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:46	01/07/25 13:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:46	01/07/25 13:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:46	01/07/25 13:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:46	01/07/25 13:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:46	01/07/25 13:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:46	01/07/25 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				01/07/25 08:46	01/07/25 13:17	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/07/25 08:46	01/07/25 13:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/07/25 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9		mg/Kg		01/07/25 09:48	01/07/25 19:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		01/07/25 09:48	01/07/25 19:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 09:48	01/07/25 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/07/25 09:48	01/07/25 19:31	1
o-Terphenyl	76		70 - 130				01/07/25 09:48	01/07/25 19:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	211		9.92		mg/Kg			01/07/25 12:47	1

Client Sample ID: SW 06

Lab Sample ID: 890-7542-17

Date Collected: 01/03/25 14:35

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/07/25 08:46	01/07/25 13:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/07/25 08:46	01/07/25 13:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/07/25 08:46	01/07/25 13:38	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/07/25 08:46	01/07/25 13:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/07/25 08:46	01/07/25 13:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/07/25 08:46	01/07/25 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				01/07/25 08:46	01/07/25 13:38	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: SW 06

Lab Sample ID: 890-7542-17

Date Collected: 01/03/25 14:35

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	01/07/25 08:46	01/07/25 13:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/07/25 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/07/25 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		01/07/25 09:48	01/07/25 20:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		01/07/25 09:48	01/07/25 20:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/07/25 09:48	01/07/25 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				01/07/25 09:48	01/07/25 20:16	1
o-Terphenyl	78		70 - 130				01/07/25 09:48	01/07/25 20:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	439		9.94		mg/Kg			01/07/25 12:53	1

Client Sample ID: FS 13

Lab Sample ID: 890-7542-18

Date Collected: 01/03/25 15:40

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/07/25 08:46	01/07/25 13:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/07/25 08:46	01/07/25 13:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/07/25 08:46	01/07/25 13:58	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/07/25 08:46	01/07/25 13:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/07/25 08:46	01/07/25 13:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/07/25 08:46	01/07/25 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/07/25 08:46	01/07/25 13:58	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/07/25 08:46	01/07/25 13:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/07/25 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/07/25 20:30	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 13

Lab Sample ID: 890-7542-18

Date Collected: 01/03/25 15:40

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9		mg/Kg		01/07/25 09:48	01/07/25 20:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		01/07/25 09:48	01/07/25 20:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 09:48	01/07/25 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				01/07/25 09:48	01/07/25 20:30	1
o-Terphenyl	76		70 - 130				01/07/25 09:48	01/07/25 20:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1800		49.6		mg/Kg			01/07/25 12:59	5

Client Sample ID: FS 14

Lab Sample ID: 890-7542-19

Date Collected: 01/03/25 15:45

Matrix: Solid

Date Received: 01/06/25 16:20

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:46	01/07/25 14:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:46	01/07/25 14:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:46	01/07/25 14:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:46	01/07/25 14:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:46	01/07/25 14:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:46	01/07/25 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				01/07/25 08:46	01/07/25 14:19	1
1,4-Difluorobenzene (Surr)	98		70 - 130				01/07/25 08:46	01/07/25 14:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/07/25 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/07/25 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		01/07/25 10:51	01/07/25 20:16	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/07/25 10:51	01/07/25 20:16	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/07/25 10:51	01/07/25 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				01/07/25 10:51	01/07/25 20:16	1
o-Terphenyl	69	S1-	70 - 130				01/07/25 10:51	01/07/25 20:16	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 14
Date Collected: 01/03/25 15:45
Date Received: 01/06/25 16:20
Sample Depth: 4'

Lab Sample ID: 890-7542-19
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	556		10.0		mg/Kg			01/07/25 13:10	1

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

Surrogate Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

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)				
890-7542-1	FS 01	102	98				
890-7542-1 MS	FS 01	112	102				
890-7542-1 MSD	FS 01	116	102				
890-7542-2	FS 02	116	104				
890-7542-3	FS 03	115	105				
890-7542-4	FS 04	118	105				
890-7542-5	FS 05	116	104				
890-7542-6	FS 06	117	104				
890-7542-7	FS 07	119	105				
890-7542-8	FS 08	113	106				
890-7542-9	FS 09	107	99				
890-7542-10	FS 10	116	105				
890-7542-11	FS 11	109	97				
890-7542-11 MS	FS 11	114	97				
890-7542-11 MSD	FS 11	111	98				
890-7542-12	FS 12	107	95				
890-7542-13	SW 01	98	94				
890-7542-14	SW 02	102	94				
890-7542-15	SW 03	96	98				
890-7542-16	SW 05	127	90				
890-7542-17	SW 06	107	95				
890-7542-18	FS 13	103	100				
890-7542-19	FS 14	109	98				
LCS 880-99630/1-A	Lab Control Sample	113	102				
LCS 880-99633/1-A	Lab Control Sample	110	97				
LCSD 880-99630/2-A	Lab Control Sample Dup	115	102				
LCSD 880-99633/2-A	Lab Control Sample Dup	96	101				
MB 880-99630/5-A	Method Blank	109	102				
MB 880-99633/5-A	Method Blank	86	91				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
890-7542-1	FS 01	105	111				
890-7542-2	FS 02	109	112				
890-7542-3	FS 03	99	103				
890-7542-4	FS 04	103	106				
890-7542-5	FS 05	105	111				
890-7542-6	FS 06	106	112				
890-7542-7	FS 07	101	104				
890-7542-8	FS 08	107	111				
890-7542-9	FS 09	104	108				
890-7542-10	FS 10	116	120				

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Surrogate Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7542-11	FS 11	102	106
890-7542-12	FS 12	109	114
890-7542-13	SW 01	105	109
890-7542-14	SW 02	101	105
890-7542-15	SW 03	100	105
890-7542-16	SW 05	75	76
890-7542-16 MS	SW 05	84	81
890-7542-16 MSD	SW 05	85	79
890-7542-17	SW 06	80	78
890-7542-18	FS 13	79	76
890-7542-19	FS 14	67 S1-	69 S1-
LCS 880-99660/2-A	Lab Control Sample	144 S1+	158 S1+
LCS 880-99661/2-A	Lab Control Sample	155 S1+	147 S1+
LCS 880-99667/2-A	Lab Control Sample	136 S1+	128
LCSD 880-99660/3-A	Lab Control Sample Dup	152 S1+	162 S1+
LCSD 880-99661/3-A	Lab Control Sample Dup	164 S1+	155 S1+
LCSD 880-99667/3-A	Lab Control Sample Dup	137 S1+	130
MB 880-99660/1-A	Method Blank	150 S1+	152 S1+
MB 880-99661/1-A	Method Blank	112	114
MB 880-99667/1-A	Method Blank	107	110

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99630/5-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99630

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/07/25 08:40	01/07/25 11:14	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/07/25 08:40	01/07/25 11:14	1

Lab Sample ID: LCS 880-99630/1-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1038		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130
Toluene	0.100	0.1022		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2079		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-99630/2-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99630

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	6	35
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	5	35
Toluene	0.100	0.1083		mg/Kg		108	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2194		mg/Kg		110	70 - 130	5	35
o-Xylene	0.100	0.1129		mg/Kg		113	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-7542-1 MS

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: FS 01

Prep Type: Total/NA

Prep Batch: 99630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1061		mg/Kg		106	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1033		mg/Kg		103	70 - 130

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

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

Lab Sample ID: 890-7542-1 MS

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: FS 01

Prep Type: Total/NA

Prep Batch: 99630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U	0.100	0.1041		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2098		mg/Kg		105	70 - 130
o-Xylene	<0.00200	U	0.100	0.1076		mg/Kg		108	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-7542-1 MSD

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: FS 01

Prep Type: Total/NA

Prep Batch: 99630

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1070		mg/Kg		107	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.1038		mg/Kg		104	70 - 130	0	35
Toluene	<0.00200	U	0.100	0.1047		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2114		mg/Kg		106	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.1082		mg/Kg		108	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-99633/5-A

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	01/07/25 08:46	01/07/25 11:13	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/07/25 08:46	01/07/25 11:13	1

Lab Sample ID: LCS 880-99633/1-A

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1084		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1074		mg/Kg		107	70 - 130
Toluene	0.100	0.1094		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2069		mg/Kg		103	70 - 130

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

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

Lab Sample ID: LCS 880-99633/1-A

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1147		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-99633/2-A

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1013		mg/Kg		101	70 - 130	7	35
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130	4	35
Toluene	0.100	0.1065		mg/Kg		106	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130	5	35
o-Xylene	0.100	0.1084		mg/Kg		108	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-7542-11 MS

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: FS 11

Prep Type: Total/NA

Prep Batch: 99633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1125		mg/Kg		112	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1100		mg/Kg		110	70 - 130
Toluene	<0.00200	U	0.100	0.1129		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2123		mg/Kg		106	70 - 130
o-Xylene	<0.00200	U	0.100	0.1168		mg/Kg		117	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-7542-11 MSD

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: FS 11

Prep Type: Total/NA

Prep Batch: 99633

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1129		mg/Kg		113	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.1106		mg/Kg		111	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.1134		mg/Kg		113	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2128		mg/Kg		106	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.1166		mg/Kg		117	70 - 130	0	35

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

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

Lab Sample ID: 890-7542-11 MSD

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: FS 11

Prep Type: Total/NA

Prep Batch: 99633

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-99660/1-A

Matrix: Solid

Analysis Batch: 99659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99660

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 09:45	01/07/25 10:19	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 09:45	01/07/25 10:19	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:45	01/07/25 10:19	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	150	S1+	70 - 130				01/07/25 09:45	01/07/25 10:19	1	
o-Terphenyl	152	S1+	70 - 130				01/07/25 09:45	01/07/25 10:19	1	

Lab Sample ID: LCS 880-99660/2-A

Matrix: Solid

Analysis Batch: 99659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99660

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	1326	*+	mg/Kg		133	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1353	*+	mg/Kg		135	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	144	S1+	70 - 130							
o-Terphenyl	158	S1+	70 - 130							

Lab Sample ID: LCSD 880-99660/3-A

Matrix: Solid

Analysis Batch: 99659

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99660

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1384	*+	mg/Kg		138	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)			1000	1450	*+	mg/Kg		145	70 - 130	7	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	152	S1+	70 - 130									
o-Terphenyl	162	S1+	70 - 130									

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

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

Lab Sample ID: MB 880-99661/1-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 18:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				01/07/25 09:48	01/07/25 18:47	1
o-Terphenyl	114		70 - 130				01/07/25 09:48	01/07/25 18:47	1

Lab Sample ID: LCS 880-99661/2-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1360	*+	mg/Kg		136	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1425	*+	mg/Kg		143	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	155	S1+	70 - 130				
o-Terphenyl	147	S1+	70 - 130				

Lab Sample ID: LCSD 880-99661/3-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99661

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1412	*+	mg/Kg		141	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1450	*+	mg/Kg		145	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	164	S1+	70 - 130						
o-Terphenyl	155	S1+	70 - 130						

Lab Sample ID: 890-7542-16 MS

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: SW 05

Prep Type: Total/NA

Prep Batch: 99661

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	999	887.1		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	794.2		mg/Kg		80	70 - 130

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

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

Lab Sample ID: 890-7542-16 MS

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: SW 05

Prep Type: Total/NA

Prep Batch: 99661

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 890-7542-16 MSD

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: SW 05

Prep Type: Total/NA

Prep Batch: 99661

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	999	903.7		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U **	999	852.2		mg/Kg		85	70 - 130	7	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: MB 880-99667/1-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	107		70 - 130	01/07/25 10:51	01/07/25 18:47	1			
o-Terphenyl	110		70 - 130	01/07/25 10:51	01/07/25 18:47	1			

Lab Sample ID: LCS 880-99667/2-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1224		mg/Kg		122	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	128		70 - 130

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

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

Lab Sample ID: LCSD 880-99667/3-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99667

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1174		mg/Kg		117	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1280		mg/Kg		128	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	137	S1+	70 - 130						
o-Terphenyl	130		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99622/1-A

Matrix: Solid

Analysis Batch: 99648

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/07/25 10:14	1

Lab Sample ID: LCS 880-99622/2-A

Matrix: Solid

Analysis Batch: 99648

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	260.7		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-99622/3-A

Matrix: Solid

Analysis Batch: 99648

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	261.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-7542-10 MS

Matrix: Solid

Analysis Batch: 99648

Client Sample ID: FS 10

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	243		252	513.6		mg/Kg		108	90 - 110		

Lab Sample ID: 890-7542-10 MSD

Matrix: Solid

Analysis Batch: 99648

Client Sample ID: FS 10

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	243		252	514.1		mg/Kg		108	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

GC VOA

Analysis Batch: 99625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-11	FS 11	Total/NA	Solid	8021B	99633
890-7542-12	FS 12	Total/NA	Solid	8021B	99633
890-7542-13	SW 01	Total/NA	Solid	8021B	99633
890-7542-14	SW 02	Total/NA	Solid	8021B	99633
890-7542-15	SW 03	Total/NA	Solid	8021B	99633
890-7542-16	SW 05	Total/NA	Solid	8021B	99633
890-7542-17	SW 06	Total/NA	Solid	8021B	99633
890-7542-18	FS 13	Total/NA	Solid	8021B	99633
890-7542-19	FS 14	Total/NA	Solid	8021B	99633
MB 880-99633/5-A	Method Blank	Total/NA	Solid	8021B	99633
LCS 880-99633/1-A	Lab Control Sample	Total/NA	Solid	8021B	99633
LCSD 880-99633/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99633
890-7542-11 MS	FS 11	Total/NA	Solid	8021B	99633
890-7542-11 MSD	FS 11	Total/NA	Solid	8021B	99633

Analysis Batch: 99626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-1	FS 01	Total/NA	Solid	8021B	99630
890-7542-2	FS 02	Total/NA	Solid	8021B	99630
890-7542-3	FS 03	Total/NA	Solid	8021B	99630
890-7542-4	FS 04	Total/NA	Solid	8021B	99630
890-7542-5	FS 05	Total/NA	Solid	8021B	99630
890-7542-6	FS 06	Total/NA	Solid	8021B	99630
890-7542-7	FS 07	Total/NA	Solid	8021B	99630
890-7542-8	FS 08	Total/NA	Solid	8021B	99630
890-7542-9	FS 09	Total/NA	Solid	8021B	99630
890-7542-10	FS 10	Total/NA	Solid	8021B	99630
MB 880-99630/5-A	Method Blank	Total/NA	Solid	8021B	99630
LCS 880-99630/1-A	Lab Control Sample	Total/NA	Solid	8021B	99630
LCSD 880-99630/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99630
890-7542-1 MS	FS 01	Total/NA	Solid	8021B	99630
890-7542-1 MSD	FS 01	Total/NA	Solid	8021B	99630

Prep Batch: 99630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-1	FS 01	Total/NA	Solid	5035	
890-7542-2	FS 02	Total/NA	Solid	5035	
890-7542-3	FS 03	Total/NA	Solid	5035	
890-7542-4	FS 04	Total/NA	Solid	5035	
890-7542-5	FS 05	Total/NA	Solid	5035	
890-7542-6	FS 06	Total/NA	Solid	5035	
890-7542-7	FS 07	Total/NA	Solid	5035	
890-7542-8	FS 08	Total/NA	Solid	5035	
890-7542-9	FS 09	Total/NA	Solid	5035	
890-7542-10	FS 10	Total/NA	Solid	5035	
MB 880-99630/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99630/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99630/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7542-1 MS	FS 01	Total/NA	Solid	5035	
890-7542-1 MSD	FS 01	Total/NA	Solid	5035	

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QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

GC VOA

Prep Batch: 99633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-11	FS 11	Total/NA	Solid	5035	
890-7542-12	FS 12	Total/NA	Solid	5035	
890-7542-13	SW 01	Total/NA	Solid	5035	
890-7542-14	SW 02	Total/NA	Solid	5035	
890-7542-15	SW 03	Total/NA	Solid	5035	
890-7542-16	SW 05	Total/NA	Solid	5035	
890-7542-17	SW 06	Total/NA	Solid	5035	
890-7542-18	FS 13	Total/NA	Solid	5035	
890-7542-19	FS 14	Total/NA	Solid	5035	
MB 880-99633/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99633/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99633/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7542-11 MS	FS 11	Total/NA	Solid	5035	
890-7542-11 MSD	FS 11	Total/NA	Solid	5035	

Analysis Batch: 99693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-1	FS 01	Total/NA	Solid	Total BTEX	
890-7542-2	FS 02	Total/NA	Solid	Total BTEX	
890-7542-3	FS 03	Total/NA	Solid	Total BTEX	
890-7542-4	FS 04	Total/NA	Solid	Total BTEX	
890-7542-5	FS 05	Total/NA	Solid	Total BTEX	
890-7542-6	FS 06	Total/NA	Solid	Total BTEX	
890-7542-7	FS 07	Total/NA	Solid	Total BTEX	
890-7542-8	FS 08	Total/NA	Solid	Total BTEX	
890-7542-9	FS 09	Total/NA	Solid	Total BTEX	
890-7542-10	FS 10	Total/NA	Solid	Total BTEX	
890-7542-11	FS 11	Total/NA	Solid	Total BTEX	
890-7542-12	FS 12	Total/NA	Solid	Total BTEX	
890-7542-13	SW 01	Total/NA	Solid	Total BTEX	
890-7542-14	SW 02	Total/NA	Solid	Total BTEX	
890-7542-15	SW 03	Total/NA	Solid	Total BTEX	
890-7542-16	SW 05	Total/NA	Solid	Total BTEX	
890-7542-17	SW 06	Total/NA	Solid	Total BTEX	
890-7542-18	FS 13	Total/NA	Solid	Total BTEX	
890-7542-19	FS 14	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 99653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-16	SW 05	Total/NA	Solid	8015B NM	99661
890-7542-17	SW 06	Total/NA	Solid	8015B NM	99661
890-7542-18	FS 13	Total/NA	Solid	8015B NM	99661
MB 880-99661/1-A	Method Blank	Total/NA	Solid	8015B NM	99661
LCS 880-99661/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99661
LCSD 880-99661/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99661
890-7542-16 MS	SW 05	Total/NA	Solid	8015B NM	99661
890-7542-16 MSD	SW 05	Total/NA	Solid	8015B NM	99661

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QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

GC Semi VOA

Analysis Batch: 99655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-19	FS 14	Total/NA	Solid	8015B NM	99667
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015B NM	99667
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99667
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99667

Analysis Batch: 99659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-1	FS 01	Total/NA	Solid	8015B NM	99660
890-7542-2	FS 02	Total/NA	Solid	8015B NM	99660
890-7542-3	FS 03	Total/NA	Solid	8015B NM	99660
890-7542-4	FS 04	Total/NA	Solid	8015B NM	99660
890-7542-5	FS 05	Total/NA	Solid	8015B NM	99660
890-7542-6	FS 06	Total/NA	Solid	8015B NM	99660
890-7542-7	FS 07	Total/NA	Solid	8015B NM	99660
890-7542-8	FS 08	Total/NA	Solid	8015B NM	99660
890-7542-9	FS 09	Total/NA	Solid	8015B NM	99660
890-7542-10	FS 10	Total/NA	Solid	8015B NM	99660
890-7542-11	FS 11	Total/NA	Solid	8015B NM	99660
890-7542-12	FS 12	Total/NA	Solid	8015B NM	99660
890-7542-13	SW 01	Total/NA	Solid	8015B NM	99660
890-7542-14	SW 02	Total/NA	Solid	8015B NM	99660
890-7542-15	SW 03	Total/NA	Solid	8015B NM	99660
MB 880-99660/1-A	Method Blank	Total/NA	Solid	8015B NM	99660
LCS 880-99660/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99660
LCSD 880-99660/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99660

Prep Batch: 99660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-1	FS 01	Total/NA	Solid	8015NM Prep	
890-7542-2	FS 02	Total/NA	Solid	8015NM Prep	
890-7542-3	FS 03	Total/NA	Solid	8015NM Prep	
890-7542-4	FS 04	Total/NA	Solid	8015NM Prep	
890-7542-5	FS 05	Total/NA	Solid	8015NM Prep	
890-7542-6	FS 06	Total/NA	Solid	8015NM Prep	
890-7542-7	FS 07	Total/NA	Solid	8015NM Prep	
890-7542-8	FS 08	Total/NA	Solid	8015NM Prep	
890-7542-9	FS 09	Total/NA	Solid	8015NM Prep	
890-7542-10	FS 10	Total/NA	Solid	8015NM Prep	
890-7542-11	FS 11	Total/NA	Solid	8015NM Prep	
890-7542-12	FS 12	Total/NA	Solid	8015NM Prep	
890-7542-13	SW 01	Total/NA	Solid	8015NM Prep	
890-7542-14	SW 02	Total/NA	Solid	8015NM Prep	
890-7542-15	SW 03	Total/NA	Solid	8015NM Prep	
MB 880-99660/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99660/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99660/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 99661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-16	SW 05	Total/NA	Solid	8015NM Prep	
890-7542-17	SW 06	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

GC Semi VOA (Continued)

Prep Batch: 99661 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-18	FS 13	Total/NA	Solid	8015NM Prep	
MB 880-99661/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99661/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99661/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7542-16 MS	SW 05	Total/NA	Solid	8015NM Prep	
890-7542-16 MSD	SW 05	Total/NA	Solid	8015NM Prep	

Prep Batch: 99667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-19	FS 14	Total/NA	Solid	8015NM Prep	
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-1	FS 01	Total/NA	Solid	8015 NM	
890-7542-2	FS 02	Total/NA	Solid	8015 NM	
890-7542-3	FS 03	Total/NA	Solid	8015 NM	
890-7542-4	FS 04	Total/NA	Solid	8015 NM	
890-7542-5	FS 05	Total/NA	Solid	8015 NM	
890-7542-6	FS 06	Total/NA	Solid	8015 NM	
890-7542-7	FS 07	Total/NA	Solid	8015 NM	
890-7542-8	FS 08	Total/NA	Solid	8015 NM	
890-7542-9	FS 09	Total/NA	Solid	8015 NM	
890-7542-10	FS 10	Total/NA	Solid	8015 NM	
890-7542-11	FS 11	Total/NA	Solid	8015 NM	
890-7542-12	FS 12	Total/NA	Solid	8015 NM	
890-7542-13	SW 01	Total/NA	Solid	8015 NM	
890-7542-14	SW 02	Total/NA	Solid	8015 NM	
890-7542-15	SW 03	Total/NA	Solid	8015 NM	
890-7542-16	SW 05	Total/NA	Solid	8015 NM	
890-7542-17	SW 06	Total/NA	Solid	8015 NM	
890-7542-18	FS 13	Total/NA	Solid	8015 NM	
890-7542-19	FS 14	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-1	FS 01	Soluble	Solid	DI Leach	
890-7542-2	FS 02	Soluble	Solid	DI Leach	
890-7542-3	FS 03	Soluble	Solid	DI Leach	
890-7542-4	FS 04	Soluble	Solid	DI Leach	
890-7542-5	FS 05	Soluble	Solid	DI Leach	
890-7542-6	FS 06	Soluble	Solid	DI Leach	
890-7542-7	FS 07	Soluble	Solid	DI Leach	
890-7542-8	FS 08	Soluble	Solid	DI Leach	
890-7542-9	FS 09	Soluble	Solid	DI Leach	
890-7542-10	FS 10	Soluble	Solid	DI Leach	
890-7542-11	FS 11	Soluble	Solid	DI Leach	

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QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

HPLC/IC (Continued)

Leach Batch: 99622 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-12	FS 12	Soluble	Solid	DI Leach	
890-7542-13	SW 01	Soluble	Solid	DI Leach	
890-7542-14	SW 02	Soluble	Solid	DI Leach	
890-7542-15	SW 03	Soluble	Solid	DI Leach	
890-7542-16	SW 05	Soluble	Solid	DI Leach	
890-7542-17	SW 06	Soluble	Solid	DI Leach	
890-7542-18	FS 13	Soluble	Solid	DI Leach	
890-7542-19	FS 14	Soluble	Solid	DI Leach	
MB 880-99622/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99622/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99622/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7542-10 MS	FS 10	Soluble	Solid	DI Leach	
890-7542-10 MSD	FS 10	Soluble	Solid	DI Leach	

Analysis Batch: 99648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7542-1	FS 01	Soluble	Solid	300.0	99622
890-7542-2	FS 02	Soluble	Solid	300.0	99622
890-7542-3	FS 03	Soluble	Solid	300.0	99622
890-7542-4	FS 04	Soluble	Solid	300.0	99622
890-7542-5	FS 05	Soluble	Solid	300.0	99622
890-7542-6	FS 06	Soluble	Solid	300.0	99622
890-7542-7	FS 07	Soluble	Solid	300.0	99622
890-7542-8	FS 08	Soluble	Solid	300.0	99622
890-7542-9	FS 09	Soluble	Solid	300.0	99622
890-7542-10	FS 10	Soluble	Solid	300.0	99622
890-7542-11	FS 11	Soluble	Solid	300.0	99622
890-7542-12	FS 12	Soluble	Solid	300.0	99622
890-7542-13	SW 01	Soluble	Solid	300.0	99622
890-7542-14	SW 02	Soluble	Solid	300.0	99622
890-7542-15	SW 03	Soluble	Solid	300.0	99622
890-7542-16	SW 05	Soluble	Solid	300.0	99622
890-7542-17	SW 06	Soluble	Solid	300.0	99622
890-7542-18	FS 13	Soluble	Solid	300.0	99622
890-7542-19	FS 14	Soluble	Solid	300.0	99622
MB 880-99622/1-A	Method Blank	Soluble	Solid	300.0	99622
LCS 880-99622/2-A	Lab Control Sample	Soluble	Solid	300.0	99622
LCSD 880-99622/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99622
890-7542-10 MS	FS 10	Soluble	Solid	300.0	99622
890-7542-10 MSD	FS 10	Soluble	Solid	300.0	99622

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Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 01

Lab Sample ID: 890-7542-1

Date Collected: 01/03/25 13:10

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99630	MNR	EET MID	01/07/25 08:40
Total/NA	Analysis	8021B		1	99626	MNR	EET MID	01/07/25 11:36
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 11:36
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 14:05
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 14:05
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 10:48

Client Sample ID: FS 02

Lab Sample ID: 890-7542-2

Date Collected: 01/03/25 13:00

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99630	MNR	EET MID	01/07/25 08:40
Total/NA	Analysis	8021B		1	99626	MNR	EET MID	01/07/25 11:56
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 11:56
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 14:20
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 14:20
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 10:54

Client Sample ID: FS 03

Lab Sample ID: 890-7542-3

Date Collected: 01/03/25 12:50

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99630	MNR	EET MID	01/07/25 08:40
Total/NA	Analysis	8021B		1	99626	MNR	EET MID	01/07/25 12:17
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 12:17
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 14:36
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 14:36
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 10:59

Client Sample ID: FS 04

Lab Sample ID: 890-7542-4

Date Collected: 01/03/25 12:40

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99630	MNR	EET MID	01/07/25 08:40
Total/NA	Analysis	8021B		1	99626	MNR	EET MID	01/07/25 12:37
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 12:37

Eurofins Carlsbad

Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 04

Lab Sample ID: 890-7542-4

Date Collected: 01/03/25 12:40

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 14:52
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 14:52
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 11:05

Client Sample ID: FS 05

Lab Sample ID: 890-7542-5

Date Collected: 01/03/25 12:30

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99630	MNR	EET MID	01/07/25 08:40
Total/NA	Analysis	8021B		1	99626	MNR	EET MID	01/07/25 12:58
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 12:58
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 15:08
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 15:08
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		5	99648	CH	EET MID	01/07/25 13:04

Client Sample ID: FS 06

Lab Sample ID: 890-7542-6

Date Collected: 01/03/25 12:20

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99630	MNR	EET MID	01/07/25 08:40
Total/NA	Analysis	8021B		1	99626	MNR	EET MID	01/07/25 13:18
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 13:18
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 15:39
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 15:39
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 11:28

Client Sample ID: FS 07

Lab Sample ID: 890-7542-7

Date Collected: 01/03/25 13:15

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99630	MNR	EET MID	01/07/25 08:40
Total/NA	Analysis	8021B		1	99626	MNR	EET MID	01/07/25 13:39
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 13:39
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 15:56
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 15:56

Eurofins Carlsbad

Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 07

Lab Sample ID: 890-7542-7

Date Collected: 01/03/25 13:15

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 11:34

Client Sample ID: FS 08

Lab Sample ID: 890-7542-8

Date Collected: 01/03/25 13:05

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99630	MNR	EET MID	01/07/25 08:40
Total/NA	Analysis	8021B		1	99626	MNR	EET MID	01/07/25 13:59
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 13:59
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 16:11
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 16:11
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 11:39

Client Sample ID: FS 09

Lab Sample ID: 890-7542-9

Date Collected: 01/03/25 12:55

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99630	MNR	EET MID	01/07/25 08:40
Total/NA	Analysis	8021B		1	99626	MNR	EET MID	01/07/25 14:20
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 14:20
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 16:28
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 16:28
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 11:45

Client Sample ID: FS 10

Lab Sample ID: 890-7542-10

Date Collected: 01/03/25 12:45

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99630	MNR	EET MID	01/07/25 08:40
Total/NA	Analysis	8021B		1	99626	MNR	EET MID	01/07/25 14:40
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 14:40
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 16:44
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 16:44
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 11:51

Eurofins Carlsbad

Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: FS 11

Lab Sample ID: 890-7542-11

Date Collected: 01/03/25 12:35

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99633	MNR	EET MID	01/07/25 08:46
Total/NA	Analysis	8021B		1	99625	MNR	EET MID	01/07/25 11:35
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 11:35
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 17:01
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 17:01
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 12:08

Client Sample ID: FS 12

Lab Sample ID: 890-7542-12

Date Collected: 01/03/25 12:25

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99633	MNR	EET MID	01/07/25 08:46
Total/NA	Analysis	8021B		1	99625	MNR	EET MID	01/07/25 11:55
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 11:55
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 17:16
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 17:16
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 12:13

Client Sample ID: SW 01

Lab Sample ID: 890-7542-13

Date Collected: 01/03/25 14:40

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99633	MNR	EET MID	01/07/25 08:46
Total/NA	Analysis	8021B		1	99625	MNR	EET MID	01/07/25 12:16
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 12:16
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 17:33
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 17:33
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 12:30

Client Sample ID: SW 02

Lab Sample ID: 890-7542-14

Date Collected: 01/03/25 14:45

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99633	MNR	EET MID	01/07/25 08:46
Total/NA	Analysis	8021B		1	99625	MNR	EET MID	01/07/25 12:36
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 12:36

Eurofins Carlsbad

Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: SW 02

Lab Sample ID: 890-7542-14

Date Collected: 01/03/25 14:45

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 17:48
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 17:48
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 12:36

Client Sample ID: SW 03

Lab Sample ID: 890-7542-15

Date Collected: 01/03/25 13:20

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99633	MNR	EET MID	01/07/25 08:46
Total/NA	Analysis	8021B		1	99625	MNR	EET MID	01/07/25 12:57
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 12:57
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 18:04
Total/NA	Prep	8015NM Prep			99660	EL	EET MID	01/07/25 09:45
Total/NA	Analysis	8015B NM		1	99659	TKC	EET MID	01/07/25 18:04
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 12:42

Client Sample ID: SW 05

Lab Sample ID: 890-7542-16

Date Collected: 01/03/25 14:30

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99633	MNR	EET MID	01/07/25 08:46
Total/NA	Analysis	8021B		1	99625	MNR	EET MID	01/07/25 13:17
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 13:17
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 19:31
Total/NA	Prep	8015NM Prep			99661	EL	EET MID	01/07/25 09:48
Total/NA	Analysis	8015B NM		1	99653	TKC	EET MID	01/07/25 19:31
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 12:47

Client Sample ID: SW 06

Lab Sample ID: 890-7542-17

Date Collected: 01/03/25 14:35

Matrix: Solid

Date Received: 01/06/25 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99633	MNR	EET MID	01/07/25 08:46
Total/NA	Analysis	8021B		1	99625	MNR	EET MID	01/07/25 13:38
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 13:38
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 20:16
Total/NA	Prep	8015NM Prep			99661	EL	EET MID	01/07/25 09:48
Total/NA	Analysis	8015B NM		1	99653	TKC	EET MID	01/07/25 20:16

Eurofins Carlsbad

Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Client Sample ID: SW 06

Date Collected: 01/03/25 14:35

Date Received: 01/06/25 16:20

Lab Sample ID: 890-7542-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 12:53

Client Sample ID: FS 13

Date Collected: 01/03/25 15:40

Date Received: 01/06/25 16:20

Lab Sample ID: 890-7542-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99633	MNR	EET MID	01/07/25 08:46
Total/NA	Analysis	8021B		1	99625	MNR	EET MID	01/07/25 13:58
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 13:58
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 20:30
Total/NA	Prep	8015NM Prep			99661	EL	EET MID	01/07/25 09:48
Total/NA	Analysis	8015B NM		1	99653	TKC	EET MID	01/07/25 20:30
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		5	99648	CH	EET MID	01/07/25 12:59

Client Sample ID: FS 14

Date Collected: 01/03/25 15:45

Date Received: 01/06/25 16:20

Lab Sample ID: 890-7542-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			99633	MNR	EET MID	01/07/25 08:46
Total/NA	Analysis	8021B		1	99625	MNR	EET MID	01/07/25 14:19
Total/NA	Analysis	Total BTEX		1	99693	SM	EET MID	01/07/25 14:19
Total/NA	Analysis	8015 NM		1	99733	AJ	EET MID	01/07/25 20:16
Total/NA	Prep	8015NM Prep			99667	TKC	EET MID	01/07/25 10:51
Total/NA	Analysis	8015B NM		1	99655	TKC	EET MID	01/07/25 20:16
Soluble	Leach	DI Leach			99622	SA	EET MID	01/07/25 08:05
Soluble	Analysis	300.0		1	99648	CH	EET MID	01/07/25 13:10

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

Accreditation/Certification Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1
SDG: LOCO HILLS

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7542-1	FS 01	Solid	01/03/25 13:10	01/06/25 16:20	4'
890-7542-2	FS 02	Solid	01/03/25 13:00	01/06/25 16:20	4'
890-7542-3	FS 03	Solid	01/03/25 12:50	01/06/25 16:20	4'
890-7542-4	FS 04	Solid	01/03/25 12:40	01/06/25 16:20	4'
890-7542-5	FS 05	Solid	01/03/25 12:30	01/06/25 16:20	4'
890-7542-6	FS 06	Solid	01/03/25 12:20	01/06/25 16:20	4'
890-7542-7	FS 07	Solid	01/03/25 13:15	01/06/25 16:20	4'
890-7542-8	FS 08	Solid	01/03/25 13:05	01/06/25 16:20	4'
890-7542-9	FS 09	Solid	01/03/25 12:55	01/06/25 16:20	4'
890-7542-10	FS 10	Solid	01/03/25 12:45	01/06/25 16:20	4'
890-7542-11	FS 11	Solid	01/03/25 12:35	01/06/25 16:20	4'
890-7542-12	FS 12	Solid	01/03/25 12:25	01/06/25 16:20	4'
890-7542-13	SW 01	Solid	01/03/25 14:40	01/06/25 16:20	0' - 4'
890-7542-14	SW 02	Solid	01/03/25 14:45	01/06/25 16:20	0' - 4'
890-7542-15	SW 03	Solid	01/03/25 13:20	01/06/25 16:20	0' - 4'
890-7542-16	SW 05	Solid	01/03/25 14:30	01/06/25 16:20	0' - 4'
890-7542-17	SW 06	Solid	01/03/25 14:35	01/06/25 16:20	0' - 4'
890-7542-18	FS 13	Solid	01/03/25 15:40	01/06/25 16:20	4'
890-7542-19	FS 14	Solid	01/03/25 15:45	01/06/25 16:20	4'



Environment Testing

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0390
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1298
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199
Little Rock, AR (501) 224-5060

Work Order No. _____

Page 1 of 2

Project Manager:	Michael Wilcox	Bill to: (if different)	
Company Name:	COH Consulting	Company Name:	
Address:	9446 Clement Street	Address:	
City, State ZIP:	Thermon, CO	City, State ZIP:	
Phone:	(616) 970-8459	Email:	mwilcox@cohconsulting.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Wesfall Line Release	Turn Around	☐ Routine ☒ Rush	Pres. Code	
Project Number:		Due Date:	7/4 hr		
Project Location:	Leco Hills NM	TAT starts the day received by the lab. If received by 4:30pm			
Sampler's Name:	Elizabeth Nicks	Wet loc:	Yes No		
PO #:		Thermometer ID:	C-7		
SAMPLE RECEIPT		Temp Blank:	Yes No		
Samples Received In tact:	Yes No	Correction Factor:	1.8		
Cooler Custody Seals:	Yes No	Temperature Reading:	1.8		
Sample Custody Seals:	Yes No	Corrected Temperature:	1.8		
Total Containers:					



890-7542 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
F501	S	01/03/25	1310	4'	Comp	1	BTEX		None: NO	DI Water: H ₂ O
F502			1300				TPH		Cool: Cool	MeOH: Me
F503			1250				Chloride		HCL: HC	HNO ₃
F504			1240						H ₂ SO ₄ : H ₂	NaOH: Na
F505			1230						H ₃ PO ₄ : HP	
F506			1220						NaHSO ₄ : NABIS	
F507			1315						Na ₂ S ₂ O ₃ : NaSO ₃	
F508			1305						Zn Acetate+NaOH: Zn	
F509			1255						NaOH+Ascorbic Acid: SAPC	
F510			1245							

Total 200-716010 200-616020: 8RCRA 13PST Texas IT At Sb As Ba Be B Cd Ca C Co Cu Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	7/6 12:00	<i>[Signature]</i>	<i>[Signature]</i>	
3			4		
5			6		



Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
Little Rock, AR (501) 224-5060

Chain of Custody

Work Order No.:

Page 2 of 2

Project Manager:	Michael Wicker	Bill to: (if different)	
Company Name:	CDH Consulting	Company Name:	
Address:	9446 Lockmont Street	Address:	
City, State ZIP:	Thermon Co	City, State ZIP:	
Phone:	(616) 970-8459	Email:	m.wicker@cdhconsult.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other: _____

ANALYSIS REQUEST						
						Preservative Codes
Project Name:	Westfall Line Permit	Turn Around				H ₃ PO ₄ ; HP NaHSO ₄ ; NABIS Na ₂ S ₂ O ₃ ; NaSO ₃ Zn Acetate+NaOH; Zn NaOH+Ascorbic Acid; SAFC
Project Number:		☐ Routine	☒ Rush			None; NO DI Water; H ₂ O
Project Location:	Lowe Hills NM	Due Date:		24 hr		Cool; Cool MeOH; Me
Sampler's Name:	Elena Gade Valdez	TAT starts the day received by the lab, if received by 4:30pm				HCL; HC HNO ₃
PO #:						H ₂ SO ₄ ; H ₂ NaOH; Na
SAMPLE RECEIPT		Tapp Blank:	Yes ☒	No ☐	Wet Ice:	H ₃ PO ₄ ; HP
Samples Received In tact:	Yes ☒	No ☐	Thermometer ID:	TN/a-27		NaHSO ₄ ; NABIS
Cooler Custody Seals:	Yes ☒	No ☐	Correction Factor:	-0.2		Na ₂ S ₂ O ₃ ; NaSO ₃
Sample Custody Seals:	Yes ☒	No ☐	Temperature Reading:	1.8		Zn Acetate+NaOH; Zn
Total Containers:			Corrected Temperature:	1.6		NaOH+Ascorbic Acid; SAFC
			Parameters			X

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BTE	TPH	chl
FS 11	S	01/03/15	1235	4'	comp	1	X	X	X
FS 12			1225	4'					
SW01			1440	0-4'					
SW02			1445						
SW03			1320						
SW05			1430						
SW06			1435						
FS 13			1540	4'					
FS 14			1545	4'					

(Notice: Signature of this document as relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.)

Circle Method(s) and Metal(s) to be analyzed

TCCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Hg: 1631 / 245.1 / 7470 / 7477

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	11/15/16			

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:		Lab PM:		COC No:																							
Client Contact:		N/A		Allen, Jodi L		890-4478.1																							
Shipping/Receiving		Phone:		E-Mail:		Page:																							
Eurofins Environment Testing South Cent		N/A		Jodi.Allen@eurofins.com		Page 1 of 3																							
Address:		Due Date Requested:		Accreditations Required (See note)		Job #:																							
1211 W. Florida Ave.		1/7/2025		NELAP - Texas		890-7542-1																							
City:		TAT Requested (days):		Analysis Requested		Preservation Codes:																							
Midland		N/A																											
State, Zip:																													
TX, 79701																													
Phone:		PO #:																											
432-704-5440(Te)		N/A																											
Email:		WO #:																											
N/A		N/A																											
Project Name:		Project #:																											
WESTFALL LINE RELEASE		89000037																											
Site:		SSOV#:																											
N/A		N/A																											
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=overhead, BT=15min, A=At)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8015MOD_NM/8015NM_S_Prep (MOD) Full TPH		8015MOD_Calc		300_ORGFM_28D/DI_LEACH Chloride		8021B/5035FP_Calc (MOD) BTEX - LL		Total_BTEX_GCV		Total Number of containers		Special Instructions/Note:			
FS 01 (890-7542-1)		1/3/25		13:10		G		Solid		X		X		X		X		X		X		X		X		1			
FS 02 (890-7542-2)		1/3/25		13:00		G		Solid		X		X		X		X		X		X		X		X		1			
FS 03 (890-7542-3)		1/3/25		12:50		G		Solid		X		X		X		X		X		X		X		X		1			
FS 04 (890-7542-4)		1/3/25		12:40		G		Solid		X		X		X		X		X		X		X		X		1			
FS 05 (890-7542-5)		1/3/25		12:30		G		Solid		X		X		X		X		X		X		X		X		1			
FS 06 (890-7542-6)		1/3/25		12:20		G		Solid		X		X		X		X		X		X		X		X		1			
FS 07 (890-7542-7)		1/3/25		13:15		G		Solid		X		X		X		X		X		X		X		X		1			
FS 08 (890-7542-8)		1/3/25		13:05		G		Solid		X		X		X		X		X		X		X		X		1			
FS 09 (890-7542-9)		1/3/25		12:55		G		Solid		X		X		X		X		X		X		X		X		1			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																													
Possible Hazard Identification																													
Unconfirmed																													
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2																													
Empty Kit Relinquished by: Date: Time: Method of Shipment:																													
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																													
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																													
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																													
Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:																													
Δ Yes Δ No																													

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:		Lab PM:		COC No:																							
Client Contact:		N/A		Allen, Jodi L		N/A																							
Shipping/Receiving		Phone:		E-Mail:		State of Origin:																							
Eurofins Environment Testing South Cent		N/A		Jodi.Allen@eurofins.com		Texas																							
Address:		Due Date Requested:		Accreditations Required (See note):		Job #:																							
1211 W. Florida Ave.		1/7/2025		NELAP - Texas		890-7542-1																							
City:		TAT Requested (days):		Analysis Requested		Preservation Codes:																							
Midland		N/A																											
State, Zip:																													
TX, 79701																													
Phone:		PO #:																											
432-704-5440(Te)		N/A																											
Email:		WO #:																											
N/A		N/A																											
Project Name:		Project #:																											
WESTALL LINE RELEASE		89000037																											
Site:		SSOV#:																											
N/A		N/A																											
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=oil, B=BTX, T=Total, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8015MOD_NM/8015NM_S_Prep (MOD) Full TPH		8015MOD_Calc		300_ORGFM_28D/DI_LEACH Chloride		8021B/5035FFP_Calc (MOD) BTX - LL		Total_BTXX_GCV		Total Number of containers		Special Instructions/Note:			
FS 10 (890-7542-10)		1/3/25		12:45		G		Solid		X		X		X		X		X		X		X		X		1			
FS 11 (890-7542-11)		1/3/25		12:35		G		Solid		X		X		X		X		X		X		X		X		1			
FS 12 (890-7542-12)		1/3/25		12:25		G		Solid		X		X		X		X		X		X		X		X		1			
SW 01 (890-7542-13)		1/3/25		14:40		G		Solid		X		X		X		X		X		X		X		X		1			
SW 02 (890-7542-14)		1/3/25		14:45		G		Solid		X		X		X		X		X		X		X		X		1			
SW 03 (890-7542-15)		1/3/25		13:20		G		Solid		X		X		X		X		X		X		X		X		1			
SW 05 (890-7542-16)		1/3/25		14:30		G		Solid		X		X		X		X		X		X		X		X		1			
SW 06 (890-7542-17)		1/3/25		14:35		G		Solid		X		X		X		X		X		X		X		X		1			
FS 13 (890-7542-18)		1/3/25		15:40		G		Solid		X		X		X		X		X		X		X		X		1			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the sample must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																													
Possible Hazard Identification		Unconfirmed		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		☐ Return To Client		☐ Disposal By Lab		☐ Archive For		Months																	
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:																									
Empty Kit Relinquished by:		Date/Time:		Date:		Time:		Method of Shipment:																					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:																					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:																					
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:																									
Δ Yes Δ No																													

Eurofins Carlsbad

**1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199**

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: CDH Consulting

Job Number: 890-7542-1

SDG Number: LOCO HILLS

Login Number: 7542

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: CDH Consulting

Job Number: 890-7542-1

SDG Number: LOCO HILLS

Login Number: 7542

List Number: 2

Creator: Lee, Randell

List Source: Eurofins Midland

List Creation: 01/07/25 08:20 AM

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



Environment Testing

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- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Wicker
CDH Consulting
9446 Clermont St,
Thornton, Colorado 80229
Generated 1/13/2025 5:20:06 PM

JOB DESCRIPTION

WESTALL LINE RELEASE

JOB NUMBER

890-7564-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
1/13/2025 5:20:06 PM

Authorized for release by
Jodi Allen, Project Manager I
Jodi.Allen@et.eurofinsus.com
(281)520-2865

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Laboratory Job ID: 890-7564-1

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Definitions/Glossary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7564-1

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins Carlsbad

Case Narrative

Client: CDH Consulting
Project: WESTALL LINE RELEASE

Job ID: 890-7564-1

Job ID: 890-7564-1

Eurofins Carlsbad

Job Narrative 890-7564-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 1/10/2025 3:30 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 2.2°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-100114 and analytical batch 880-100138 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-100114/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW02 0-4 (890-7564-1). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Carlsbad

Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7564-1

Client Sample ID: SW02 0-4

Lab Sample ID: 890-7564-1

Date Collected: 01/10/25 08:14

Matrix: Solid

Date Received: 01/10/25 15:30

Sample Depth: 0-4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/13/25 08:01	01/13/25 11:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/13/25 08:01	01/13/25 11:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/13/25 08:01	01/13/25 11:42	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/13/25 08:01	01/13/25 11:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/13/25 08:01	01/13/25 11:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/13/25 08:01	01/13/25 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	01/13/25 08:01	01/13/25 11:42	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/13/25 08:01	01/13/25 11:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/13/25 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/13/25 12:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		01/13/25 08:26	01/13/25 12:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+ *1	49.8		mg/Kg		01/13/25 08:26	01/13/25 12:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/13/25 08:26	01/13/25 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	01/13/25 08:26	01/13/25 12:27	1
o-Terphenyl	68	S1-	70 - 130	01/13/25 08:26	01/13/25 12:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		10.1		mg/Kg			01/13/25 10:50	1

Eurofins Carlsbad

Surrogate Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7564-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7564-1	SW02 0-4	130	96
LCS 880-100108/1-A	Lab Control Sample	123	96
LCSD 880-100108/2-A	Lab Control Sample Dup	127	94
MB 880-100108/5-A	Method Blank	127	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7564-1	SW02 0-4	73	68 S1-
LCS 880-100114/2-A	Lab Control Sample	90	84
LCSD 880-100114/3-A	Lab Control Sample Dup	159 S1+	138 S1+
MB 880-100114/1-A	Method Blank	90	90

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7564-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100108/5-A

Matrix: Solid

Analysis Batch: 100111

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	01/13/25 08:01	01/13/25 11:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/13/25 08:01	01/13/25 11:00	1

Lab Sample ID: LCS 880-100108/1-A

Matrix: Solid

Analysis Batch: 100111

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1189		mg/Kg		119	70 - 130
Ethylbenzene	0.100	0.1163		mg/Kg		116	70 - 130
Toluene	0.100	0.1138		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2387		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1202		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-100108/2-A

Matrix: Solid

Analysis Batch: 100111

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100108

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1169		mg/Kg		117	70 - 130	2	35
Ethylbenzene	0.100	0.1148		mg/Kg		115	70 - 130	1	35
Toluene	0.100	0.1112		mg/Kg		111	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2328		mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1178		mg/Kg		118	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7564-1

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

Lab Sample ID: MB 880-100114/1-A

Matrix: Solid

Analysis Batch: 100138

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/13/25 08:26	01/13/25 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/13/25 08:26	01/13/25 10:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/13/25 08:26	01/13/25 10:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	01/13/25 08:26	01/13/25 10:10	1
o-Terphenyl	90		70 - 130	01/13/25 08:26	01/13/25 10:10	1

Lab Sample ID: LCS 880-100114/2-A

Matrix: Solid

Analysis Batch: 100138

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	887.3		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	840.1		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-100114/3-A

Matrix: Solid

Analysis Batch: 100138

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1180	*1	mg/Kg		118	70 - 130	28	20
Diesel Range Organics (Over C10-C28)	1000	1375	*+ *1	mg/Kg		138	70 - 130	48	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	159	S1+	70 - 130
o-Terphenyl	138	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100105/1-A

Matrix: Solid

Analysis Batch: 100115

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/13/25 09:40	1

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7564-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-100105/2-A
Matrix: Solid
Analysis Batch: 100115

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.4		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-100105/3-A
Matrix: Solid
Analysis Batch: 100115

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	245.3		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7564-1

GC VOA

Prep Batch: 100108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7564-1	SW02 0-4	Total/NA	Solid	5035	
MB 880-100108/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100108/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100108/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 100111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7564-1	SW02 0-4	Total/NA	Solid	8021B	100108
MB 880-100108/5-A	Method Blank	Total/NA	Solid	8021B	100108
LCS 880-100108/1-A	Lab Control Sample	Total/NA	Solid	8021B	100108
LCSD 880-100108/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100108

Analysis Batch: 100161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7564-1	SW02 0-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 100114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7564-1	SW02 0-4	Total/NA	Solid	8015NM Prep	
MB 880-100114/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100114/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7564-1	SW02 0-4	Total/NA	Solid	8015B NM	100114
MB 880-100114/1-A	Method Blank	Total/NA	Solid	8015B NM	100114
LCS 880-100114/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100114
LCSD 880-100114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100114

Analysis Batch: 100157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7564-1	SW02 0-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 100105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7564-1	SW02 0-4	Soluble	Solid	DI Leach	
MB 880-100105/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100105/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100105/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 100115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7564-1	SW02 0-4	Soluble	Solid	300.0	100105
MB 880-100105/1-A	Method Blank	Soluble	Solid	300.0	100105
LCS 880-100105/2-A	Lab Control Sample	Soluble	Solid	300.0	100105
LCSD 880-100105/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100105

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Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7564-1

Client Sample ID: SW02 0-4

Lab Sample ID: 890-7564-1

Date Collected: 01/10/25 08:14

Matrix: Solid

Date Received: 01/10/25 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			100108	MNR	EET MID	01/13/25 08:01
Total/NA	Analysis	8021B		1	100111	MNR	EET MID	01/13/25 11:42
Total/NA	Analysis	Total BTEX		1	100161	SM	EET MID	01/13/25 11:42
Total/NA	Analysis	8015 NM		1	100157	SM	EET MID	01/13/25 12:27
Total/NA	Prep	8015NM Prep			100114	EL	EET MID	01/13/25 08:26
Total/NA	Analysis	8015B NM		1	100138	TKC	EET MID	01/13/25 12:27
Soluble	Leach	DI Leach			100105	SA	EET MID	01/13/25 07:53
Soluble	Analysis	300.0		1	100115	CH	EET MID	01/13/25 10:50

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

Accreditation/Certification Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7564-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7564-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7564-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7564-1	SW02 0-4	Solid	01/10/25 08:14	01/10/25 15:30	0-4

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Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-6440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1286
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
Little Rock, AR (501) 224-5060

Chain of Custody

Work On

890-7564 Chain of Custody



Page _____ of _____

Project Manager:	Michael Wicker	Bill to: (if different)	C&H Consulting
Company Name:	the Express	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	606-970-8459	Email:	mwicker@cchconsult.com

Work Order Comments	
Program: UST/PST ☐ RRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		Westfall Line Release		Turn Around												Pres. Code												ANALYSIS REQUEST												Preservative Codes											
Project Number:				☐ Routine ☒ Rush																																				None: NO		DI Water: H ₂ O									
Project Location:		Coco Hills NM		Due Date: 1-13-2015																																				Cool: Cool		MeOH: Me									
Sampler's Name:		Elizabeth Nava		TAT starts the day received by the lab, if received by 4:30pm																																				HCL: HC		HNO ₃									
PO #:																																								H ₂ SO ₄ : H ₂		NaOH: Na									
SAMPLE RECEIPT				Temp Blank:		Yes ☒ No ☐		Wet Ice:		Yes ☐ No ☒																								H ₃ PO ₄ : HP																	
Samples Received Intact:				☒ Yes ☐ No		Thermometer ID:		11111111																								NaHSO ₄ : NABIS																			
Cooler Custody Seals:				Yes ☐ No ☒		Correction Factor:		-0.2																								Na ₂ S ₂ O ₃ : NaSO ₃																			
Sample Custody Seals:				Yes ☐ No ☒		Temperature Reading:		2.4																								Zn Acetate+NaOH: Zn																			
Total Containers:						Corrected Temperature:		2.2																								NaOH+Ascorbic Acid: SAFC																			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BT	TP	Ch	Sample Comments
5002-0-4	5	10-20-05	08:14	0-4'	C	1	X	X	X	
Circle Method(s) and Metal(s) to be analyzed 8RCRA 43PCW Texas 11 At Sb As Ba Be B Cd Ca Cl Co Cu Fe Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471 8RCRA 43PCW Texas 11 At Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U										
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.										
Relinquished by: (Signature)		Received by: (Signature)		Date/Time	Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
<i>[Signature]</i>		<i>[Signature]</i>		11-10-05						
3				4						
5				6						

Login Sample Receipt Checklist

Client: CDH Consulting

Job Number: 890-7564-1

Login Number: 7564

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: CDH Consulting

Job Number: 890-7564-1

Login Number: 7564

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 01/13/25 08:12 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Wicker
CDH Consulting
9446 Clermont St,
Thornton, Colorado 80229

Generated 2/26/2025 3:13:18 PM

JOB DESCRIPTION

WESTALL LINE RELEASE
LOCO HILLS

JOB NUMBER

890-7712-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

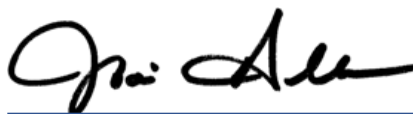
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
2/26/2025 3:13:18 PM

Authorized for release by
Jodi Allen, Project Manager I
Jodi.Allen@et.eurofinsus.com
(281)520-2865

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Laboratory Job ID: 890-7712-1
SDG: LOCO HILLS

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Definitions/Glossary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1
SDG: LOCO HILLS

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: CDH Consulting
Project: WESTALL LINE RELEASE

Job ID: 890-7712-1

Job ID: 890-7712-1

Eurofins Carlsbad

Job Narrative 890-7712-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 2/24/2025 3:30 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 0.0°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BACKFILL (890-7712-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BACKFILL (890-7712-1). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-103582 and analytical batch 880-103632 was outside the upper control limits.

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

HPLC/IC

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

Eurofins Carlsbad

Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1
SDG: LOCO HILLS

Client Sample ID: BACKFILL

Lab Sample ID: 890-7712-1

Date Collected: 02/22/25 14:28

Matrix: Solid

Date Received: 02/24/25 15:30

Sample Depth: 0.5 - 2'

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		02/25/25 11:38	02/25/25 14:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/25/25 11:38	02/25/25 14:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/25/25 11:38	02/25/25 14:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/25/25 11:38	02/25/25 14:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/25/25 11:38	02/25/25 14:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/25/25 11:38	02/25/25 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	02/25/25 11:38	02/25/25 14:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/25/25 11:38	02/25/25 14:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/25/25 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/25/25 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/24/25 17:22	02/25/25 11:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/24/25 17:22	02/25/25 11:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/24/25 17:22	02/25/25 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	02/24/25 17:22	02/25/25 11:40	1
o-Terphenyl	105		70 - 130	02/24/25 17:22	02/25/25 11:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		49.8		mg/Kg			02/25/25 22:00	5

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Surrogate Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1
SDG: LOCO HILLS

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)
890-7712-1	BACKFILL	102	92
LCS 880-103561/1-A	Lab Control Sample	93	103
LCSD 880-103561/2-A	Lab Control Sample Dup	96	103
MB 880-103561/5-A	Method Blank	92	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-7712-1	BACKFILL	133 S1+	105
LCS 880-103582/2-A	Lab Control Sample	112	100
LCSD 880-103582/3-A	Lab Control Sample Dup	110	99
MB 880-103582/1-A	Method Blank	136 S1+	107

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1
SDG: LOCO HILLS

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-103561/5-A

Matrix: Solid

Analysis Batch: 103617

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/24/25 16:08	02/25/25 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/24/25 16:08	02/25/25 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/24/25 16:08	02/25/25 11:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/24/25 16:08	02/25/25 11:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/24/25 16:08	02/25/25 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/24/25 16:08	02/25/25 11:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	02/24/25 16:08	02/25/25 11:56	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/24/25 16:08	02/25/25 11:56	1

Lab Sample ID: LCS 880-103561/1-A

Matrix: Solid

Analysis Batch: 103617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1032		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1026		mg/Kg		103	70 - 130
Toluene	0.100	0.1026		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.1918		mg/Kg		96	70 - 130
o-Xylene	0.100	0.1061		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-103561/2-A

Matrix: Solid

Analysis Batch: 103617

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103561

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1067		mg/Kg		107	70 - 130	3	35
Ethylbenzene	0.100	0.1047		mg/Kg		105	70 - 130	2	35
Toluene	0.100	0.1049		mg/Kg		105	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1936		mg/Kg		97	70 - 130	1	35
o-Xylene	0.100	0.1079		mg/Kg		108	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1
SDG: LOCO HILLS

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

Lab Sample ID: MB 880-103582/1-A

Matrix: Solid

Analysis Batch: 103632

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/24/25 17:19	02/25/25 02:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/24/25 17:19	02/25/25 02:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/24/25 17:19	02/25/25 02:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	02/24/25 17:19	02/25/25 02:34	1
o-Terphenyl	107		70 - 130	02/24/25 17:19	02/25/25 02:34	1

Lab Sample ID: LCS 880-103582/2-A

Matrix: Solid

Analysis Batch: 103632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1044		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	939.6		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-103582/3-A

Matrix: Solid

Analysis Batch: 103632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103582

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1048		mg/Kg		105	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	929.1		mg/Kg		93	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	99		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-103611/1-A

Matrix: Solid

Analysis Batch: 103651

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/25/25 18:57	1

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1
SDG: LOCO HILLS

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-103611/2-A
Matrix: Solid
Analysis Batch: 103651

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.7		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-103611/3-A
Matrix: Solid
Analysis Batch: 103651

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.5		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1
SDG: LOCO HILLS

GC VOA

Prep Batch: 103561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7712-1	BACKFILL	Total/NA	Solid	5035	
MB 880-103561/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103561/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103561/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 103617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7712-1	BACKFILL	Total/NA	Solid	8021B	103561
MB 880-103561/5-A	Method Blank	Total/NA	Solid	8021B	103561
LCS 880-103561/1-A	Lab Control Sample	Total/NA	Solid	8021B	103561
LCSD 880-103561/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103561

Analysis Batch: 103676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7712-1	BACKFILL	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 103582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7712-1	BACKFILL	Total/NA	Solid	8015NM Prep	
MB 880-103582/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103582/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103582/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 103632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7712-1	BACKFILL	Total/NA	Solid	8015B NM	103582
MB 880-103582/1-A	Method Blank	Total/NA	Solid	8015B NM	103582
LCS 880-103582/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103582
LCSD 880-103582/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103582

Analysis Batch: 103669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7712-1	BACKFILL	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 103611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7712-1	BACKFILL	Soluble	Solid	DI Leach	
MB 880-103611/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103611/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103611/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 103651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7712-1	BACKFILL	Soluble	Solid	300.0	103611
MB 880-103611/1-A	Method Blank	Soluble	Solid	300.0	103611
LCS 880-103611/2-A	Lab Control Sample	Soluble	Solid	300.0	103611
LCSD 880-103611/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103611

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Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1
SDG: LOCO HILLS

Client Sample ID: BACKFILL

Lab Sample ID: 890-7712-1

Date Collected: 02/22/25 14:28

Matrix: Solid

Date Received: 02/24/25 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			103561	MNR	EET MID	02/25/25 11:38
Total/NA	Analysis	8021B		1	103617	MNR	EET MID	02/25/25 14:20
Total/NA	Analysis	Total BTEX		1	103676	AJ	EET MID	02/25/25 14:20
Total/NA	Analysis	8015 NM		1	103669	AJ	EET MID	02/25/25 11:40
Total/NA	Prep	8015NM Prep			103582	EL	EET MID	02/24/25 17:22
Total/NA	Analysis	8015B NM		1	103632	TKC	EET MID	02/25/25 11:40
Soluble	Leach	DI Leach			103611	SA	EET MID	02/25/25 09:17
Soluble	Analysis	300.0		5	103651	CH	EET MID	02/25/25 22:00

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

Accreditation/Certification Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1
SDG: LOCO HILLS

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1
SDG: LOCO HILLS

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1
SDG: LOCO HILLS

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7712-1	BACKFILL	Solid	02/22/25 14:28	02/24/25 15:30	0.5 - 2'

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



Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
Little Rock, AR (501) 224-0060

Chain of Custody

Work Order No.:

Page _____ of _____

Project Manager:	Michael Wicker	Bill to: (if different)	EDH Consulting
Company Name:	Mr Wm operating	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	604-970-8459	Email:	mwicker@edhconsulting.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

[illegible]

Login Sample Receipt Checklist

Client: CDH Consulting

Job Number: 890-7712-1

SDG Number: LOCO HILLS

Login Number: 7712

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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



Environment Testing

- 1
- 2
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ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Wicker
CDH Consulting
9446 Clermont St,
Thornton, Colorado 80229

Generated 3/6/2025 5:53:59 PM

JOB DESCRIPTION

WESTALL LINE RELEASE
LOCO HILLS

JOB NUMBER

890-7773-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

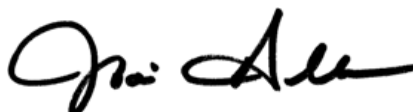
Eurofins Carlsbad

Job Notes

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

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

Authorization



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3/6/2025 5:53:59 PM

Authorized for release by
Jodi Allen, Project Manager I
Jodi.Allen@et.eurofinsus.com
(281)520-2865

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Laboratory Job ID: 890-7773-1
SDG: LOCO HILLS

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Definitions/Glossary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: CDH Consulting
Project: WESTALL LINE RELEASE

Job ID: 890-7773-1

Job ID: 890-7773-1

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Job Narrative 890-7773-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/5/2025 1:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: TOPSOIL (890-7773-1) and BACKFILL (890-7773-2).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104555 and analytical batch 880-104558 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-104525 and analytical batch 880-104415 was outside the upper control limits.

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

HPLC/IC

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

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

Client Sample ID: TOPSOIL

Lab Sample ID: 890-7773-1

Date Collected: 03/04/25 09:32

Matrix: Solid

Date Received: 03/05/25 13:40

Sample Depth: 3"-9"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/05/25 18:00	03/06/25 12:02	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/05/25 18:00	03/06/25 12:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/25 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/06/25 02:01	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	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02:01	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02:01	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	03/05/25 20:25	03/06/25 02:01	1
o-Terphenyl	89		70 - 130	03/05/25 20:25	03/06/25 02:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		10.0		mg/Kg			03/06/25 17:19	1

Client Sample ID: BACKFILL

Lab Sample ID: 890-7773-2

Date Collected: 03/04/25 09:48

Matrix: Solid

Date Received: 03/05/25 13:40

Sample Depth: 2.5'-3'

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		03/05/25 18:00	03/06/25 12:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12:23	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/05/25 18:00	03/06/25 12:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/05/25 18:00	03/06/25 12:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/05/25 18:00	03/06/25 12:23	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

Client Sample ID: BACKFILL

Lab Sample ID: 890-7773-2

Date Collected: 03/04/25 09:48

Matrix: Solid

Date Received: 03/05/25 13:40

Sample Depth: 2.5'-3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	03/05/25 18:00	03/06/25 12:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/06/25 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/06/25 02:01	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	<50.5	U	50.5		mg/Kg		03/05/25 20:27	03/06/25 02:01	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/05/25 20:27	03/06/25 02:01	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/05/25 20:27	03/06/25 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				03/05/25 20:27	03/06/25 02:01	1
o-Terphenyl	81		70 - 130				03/05/25 20:27	03/06/25 02:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		10.0		mg/Kg			03/06/25 17:26	1

Surrogate Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7773-1	TOPSOIL	102	91
890-7773-1 MS	TOPSOIL	109	89
890-7773-1 MSD	TOPSOIL	101	91
890-7773-2	BACKFILL	106	89
LCS 880-104555/1-A	Lab Control Sample	98	91
LCSD 880-104555/2-A	Lab Control Sample Dup	98	93
MB 880-104555/5-A	Method Blank	100	83
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7773-1	TOPSOIL	97	89
890-7773-2	BACKFILL	77	81
LCS 880-104524/2-A	Lab Control Sample	118	105
LCS 880-104525/2-A	Lab Control Sample	100	98
LCSD 880-104524/3-A	Lab Control Sample Dup	118	105
LCSD 880-104525/3-A	Lab Control Sample Dup	100	98
MB 880-104524/1-A	Method Blank	83	76
MB 880-104525/1-A	Method Blank	69 S1-	72
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-104555/5-A

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/05/25 18:00	03/06/25 11:40	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/05/25 18:00	03/06/25 11:40	1

Lab Sample ID: LCS 880-104555/1-A

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08388		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.07803		mg/Kg		78	70 - 130
Toluene	0.100	0.07655		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1596		mg/Kg		80	70 - 130
o-Xylene	0.100	0.08477		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-104555/2-A

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104555

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09037		mg/Kg		90	70 - 130	7	35
Ethylbenzene	0.100	0.08451		mg/Kg		85	70 - 130	8	35
Toluene	0.100	0.08163		mg/Kg		82	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1718		mg/Kg		86	70 - 130	7	35
o-Xylene	0.100	0.08976		mg/Kg		90	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-7773-1 MS

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: TOPSOIL

Prep Type: Total/NA

Prep Batch: 104555

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.100	0.03992	F1	mg/Kg		40	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.04500	F1	mg/Kg		45	70 - 130

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

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

Lab Sample ID: 890-7773-1 MS

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: TOPSOIL

Prep Type: Total/NA

Prep Batch: 104555

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U F1	0.100	0.04061	F1	mg/Kg		41	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.09331	F1	mg/Kg		47	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.05085	F1	mg/Kg		51	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-7773-1 MSD

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: TOPSOIL

Prep Type: Total/NA

Prep Batch: 104555

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.05621	F1	mg/Kg		56	70 - 130	34	35
Ethylbenzene	<0.00200	U F1	0.100	0.05819	F1	mg/Kg		58	70 - 130	26	35
Toluene	<0.00200	U F1	0.100	0.05391	F1	mg/Kg		54	70 - 130	28	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1192	F1	mg/Kg		60	70 - 130	24	35
o-Xylene	<0.00200	U F1	0.100	0.06269	F1	mg/Kg		63	70 - 130	21	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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

Lab Sample ID: MB 880-104524/1-A

Matrix: Solid

Analysis Batch: 104413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/05/25 20:24	03/05/25 18:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/05/25 20:24	03/05/25 18:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/05/25 20:24	03/05/25 18:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	03/05/25 20:24	03/05/25 18:22	1
o-Terphenyl	76		70 - 130	03/05/25 20:24	03/05/25 18:22	1

Lab Sample ID: LCS 880-104524/2-A

Matrix: Solid

Analysis Batch: 104413

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1176		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1140		mg/Kg		114	70 - 130

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

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

Lab Sample ID: LCS 880-104524/2-A

Matrix: Solid

Analysis Batch: 104413

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104524

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-104524/3-A

Matrix: Solid

Analysis Batch: 104413

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1152		mg/Kg		115	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1159		mg/Kg		116	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: MB 880-104525/1-A

Matrix: Solid

Analysis Batch: 104415

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/05/25 20:27	03/05/25 18:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/05/25 20:27	03/05/25 18:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/05/25 20:27	03/05/25 18:22	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	69	S1-	70 - 130				03/05/25 20:27	03/05/25 18:22	1
o-Terphenyl	72		70 - 130				03/05/25 20:27	03/05/25 18:22	1

Lab Sample ID: LCS 880-104525/2-A

Matrix: Solid

Analysis Batch: 104415

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104525

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	942.4		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1065		mg/Kg		106	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	98		70 - 130

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

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

Lab Sample ID: LCSD 880-104525/3-A

Matrix: Solid

Analysis Batch: 104415

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	952.6		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1081		mg/Kg		108	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
o-Terphenyl	98		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-104570/1-A

Matrix: Solid

Analysis Batch: 104584

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/06/25 11:52	1

Lab Sample ID: LCS 880-104570/2-A

Matrix: Solid

Analysis Batch: 104584

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	237.9		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-104570/3-A

Matrix: Solid

Analysis Batch: 104584

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	239.4		mg/Kg		96	90 - 110	1	20

QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

GC VOA

Prep Batch: 104555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7773-1	TOPSOIL	Total/NA	Solid	5035	
890-7773-2	BACKFILL	Total/NA	Solid	5035	
MB 880-104555/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104555/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104555/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7773-1 MS	TOPSOIL	Total/NA	Solid	5035	
890-7773-1 MSD	TOPSOIL	Total/NA	Solid	5035	

Analysis Batch: 104558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7773-1	TOPSOIL	Total/NA	Solid	8021B	104555
890-7773-2	BACKFILL	Total/NA	Solid	8021B	104555
MB 880-104555/5-A	Method Blank	Total/NA	Solid	8021B	104555
LCS 880-104555/1-A	Lab Control Sample	Total/NA	Solid	8021B	104555
LCSD 880-104555/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104555
890-7773-1 MS	TOPSOIL	Total/NA	Solid	8021B	104555
890-7773-1 MSD	TOPSOIL	Total/NA	Solid	8021B	104555

Analysis Batch: 104655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7773-1	TOPSOIL	Total/NA	Solid	Total BTEX	
890-7773-2	BACKFILL	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 104413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7773-1	TOPSOIL	Total/NA	Solid	8015B NM	104524
MB 880-104524/1-A	Method Blank	Total/NA	Solid	8015B NM	104524
LCS 880-104524/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104524
LCSD 880-104524/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104524

Analysis Batch: 104415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7773-2	BACKFILL	Total/NA	Solid	8015B NM	104525
MB 880-104525/1-A	Method Blank	Total/NA	Solid	8015B NM	104525
LCS 880-104525/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104525
LCSD 880-104525/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104525

Prep Batch: 104524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7773-1	TOPSOIL	Total/NA	Solid	8015NM Prep	
MB 880-104524/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104524/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104524/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 104525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7773-2	BACKFILL	Total/NA	Solid	8015NM Prep	
MB 880-104525/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104525/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

GC Semi VOA (Continued)

Prep Batch: 104525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-104525/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 104579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7773-1	TOPSOIL	Total/NA	Solid	8015 NM	
890-7773-2	BACKFILL	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 104570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7773-1	TOPSOIL	Soluble	Solid	DI Leach	
890-7773-2	BACKFILL	Soluble	Solid	DI Leach	
MB 880-104570/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104570/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104570/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 104584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7773-1	TOPSOIL	Soluble	Solid	300.0	104570
890-7773-2	BACKFILL	Soluble	Solid	300.0	104570
MB 880-104570/1-A	Method Blank	Soluble	Solid	300.0	104570
LCS 880-104570/2-A	Lab Control Sample	Soluble	Solid	300.0	104570
LCSD 880-104570/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104570

Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

Client Sample ID: TOPSOIL

Lab Sample ID: 890-7773-1

Date Collected: 03/04/25 09:32

Matrix: Solid

Date Received: 03/05/25 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			104555	MNR	EET MID	03/05/25 18:00
Total/NA	Analysis	8021B		1	104558	MNR	EET MID	03/06/25 12:02
Total/NA	Analysis	Total BTEX		1	104655	AJ	EET MID	03/06/25 12:02
Total/NA	Analysis	8015 NM		1	104579	AJ	EET MID	03/06/25 02:01
Total/NA	Prep	8015NM Prep			104524	TKC	EET MID	03/05/25 20:25
Total/NA	Analysis	8015B NM		1	104413	TKC	EET MID	03/06/25 02:01
Soluble	Leach	DI Leach			104570	SA	EET MID	03/06/25 09:35
Soluble	Analysis	300.0		1	104584	CH	EET MID	03/06/25 17:19

Client Sample ID: BACKFILL

Lab Sample ID: 890-7773-2

Date Collected: 03/04/25 09:48

Matrix: Solid

Date Received: 03/05/25 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			104555	MNR	EET MID	03/05/25 18:00
Total/NA	Analysis	8021B		1	104558	MNR	EET MID	03/06/25 12:23
Total/NA	Analysis	Total BTEX		1	104655	AJ	EET MID	03/06/25 12:23
Total/NA	Analysis	8015 NM		1	104579	AJ	EET MID	03/06/25 02:01
Total/NA	Prep	8015NM Prep			104525	TKC	EET MID	03/05/25 20:27
Total/NA	Analysis	8015B NM		1	104415	TKC	EET MID	03/06/25 02:01
Soluble	Leach	DI Leach			104570	SA	EET MID	03/06/25 09:35
Soluble	Analysis	300.0		1	104584	CH	EET MID	03/06/25 17:26

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

Accreditation/Certification Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1
SDG: LOCO HILLS

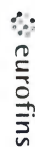
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7773-1	TOPSOIL	Solid	03/04/25 09:32	03/05/25 13:40	3"-9"
890-7773-2	BACKFILL	Solid	03/04/25 09:48	03/05/25 13:40	2.5'-3'

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Eurofins Carlsbad

**1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199**

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: CDH Consulting

Job Number: 890-7773-1

SDG Number: LOCO HILLS

Login Number: 7773

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: CDH Consulting

Job Number: 890-7773-1

SDG Number: LOCO HILLS

Login Number: 7773

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 03/06/25 08:49 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: Michael Wicker
CDH Consulting
9446 Clermont St,
Thornton, Colorado 80229

Generated 4/22/2025 8:18:38 AM

JOB DESCRIPTION

WESTALL WATER LINE

JOB NUMBER

890-7983-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

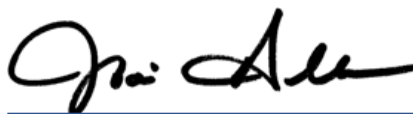
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
4/22/2025 8:18:38 AM

Authorized for release by
Jodi Allen, Project Manager I
Jodi.Allen@et.eurofinsus.com
(281)520-2865

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Laboratory Job ID: 890-7983-1

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Definitions/Glossary

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

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.
☼	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: CDH Consulting
Project: WESTALL WATER LINE

Job ID: 890-7983-1

Job ID: 890-7983-1

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Job Narrative
890-7983-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/17/2025 2:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BF01@0.25-0.75 (890-7983-1), BF01@1.25-1.75 (890-7983-2), BF01@2.25-2.75 (890-7983-3), BF01@3.25-3.75 (890-7983-4), BF02@0.25-0.75 (890-7983-5), BF02@1.25-1.75 (890-7983-6), BF02@2.25-2.75 (890-7983-7), BF02@3.25-3.75 (890-7983-8), BF03@0.25-0.75 (890-7983-9), BF03@1.25-1.75 (890-7983-10), BF03@2.25-2.75 (890-7983-11), BF03@3.25-3.75 (890-7983-12), BF04@0.25-0.75 (890-7983-13), BF04@1.25-1.75 (890-7983-14), BF04@2.25-2.75 (890-7983-15), BF04@3.25-3.75 (890-7983-16), BF05@0.25-0.75 (890-7983-17), BF05@1.25-1.75 (890-7983-18), BF05@2.25-2.75 (890-7983-19), BF05@3.25-3.75 (890-7983-20), BF06@0.25-0.75 (890-7983-21), BF06@1.25-1.75 (890-7983-22), BF06@2.25-2.75 (890-7983-23), BF06@3.25-3.75 (890-7983-24), BF07@0.25-1.25 (890-7983-25), BF07@1.25-1.75 (890-7983-26), BF07@2.25-2.75 (890-7983-27), BF07@3.25-3.75 (890-7983-28), BF08@0.25-0.75 (890-7983-29), BF08@1.25-1.75 (890-7983-30), BF08@2.25-2.75 (890-7983-31), BF08@3.25-3.75 (890-7983-32), BF09@0.25-0.75 (890-7983-33), BF09@1.25-1.75 (890-7983-34), BF09@2.25-2.75 (890-7983-35), BF09@3.25-3.75 (890-7983-36), BF10@0.25-0.75 (890-7983-37), BF10@1.25-1.75 (890-7983-38), BF10@2.25-2.75 (890-7983-39), BF10@3.25-3.75 (890-7983-40), BF11@0.25-0.75 (890-7983-41), BF11@1.25-1.75 (890-7983-42), BF11@2.25-2.75 (890-7983-43), BF11@3.25-3.75 (890-7983-44), BF12@0.25-0.75 (890-7983-45), BF12@1.25-1.75 (890-7983-46), BF12@2.25-2.75 (890-7983-47) and BF12@3.25-3.75 (890-7983-48).

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108136 and analytical batch 880-108141 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: BF11@0.25-0.75 (890-7983-41), BF11@1.25-1.75 (890-7983-42), BF11@2.25-2.75 (890-7983-43), BF11@3.25-3.75 (890-7983-44), BF12@0.25-0.75 (890-7983-45), BF12@1.25-1.75 (890-7983-46), BF12@2.25-2.75 (890-7983-47), BF12@3.25-3.75 (890-7983-48), (890-7983-A-41-B MS) and (890-7983-A-41-C MSD).

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108095 and analytical batch 880-108131 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF01@0.25-0.75

Lab Sample ID: 890-7983-1

Date Collected: 04/16/25 07:44

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125	F1	9.98		mg/Kg			04/22/25 04:40	1

Client Sample ID: BF01@1.25-1.75

Lab Sample ID: 890-7983-2

Date Collected: 04/16/25 07:49

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		9.98		mg/Kg			04/22/25 05:02	1

Client Sample ID: BF01@2.25-2.75

Lab Sample ID: 890-7983-3

Date Collected: 04/16/25 07:56

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		9.92		mg/Kg			04/22/25 05:09	1

Client Sample ID: BF01@3.25-3.75

Lab Sample ID: 890-7983-4

Date Collected: 04/16/25 08:04

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		10.0		mg/Kg			04/22/25 05:16	1

Client Sample ID: BF02@0.25-0.75

Lab Sample ID: 890-7983-5

Date Collected: 04/16/25 08:10

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		9.94		mg/Kg			04/22/25 05:23	1

Client Sample ID: BF02@1.25-1.75

Lab Sample ID: 890-7983-6

Date Collected: 04/16/25 08:14

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		9.92		mg/Kg			04/22/25 05:45	1

Client Sample ID: BF02@2.25-2.75

Lab Sample ID: 890-7983-7

Date Collected: 04/16/25 08:17

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		9.94		mg/Kg			04/22/25 05:52	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF02@3.25-3.75

Lab Sample ID: 890-7983-8

Date Collected: 04/16/25 08:21

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		9.92		mg/Kg			04/22/25 05:59	1

Client Sample ID: BF03@0.25-0.75

Lab Sample ID: 890-7983-9

Date Collected: 04/16/25 08:26

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		9.92		mg/Kg			04/22/25 06:06	1

Client Sample ID: BF03@1.25-1.75

Lab Sample ID: 890-7983-10

Date Collected: 04/16/25 08:31

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		9.92		mg/Kg			04/22/25 06:13	1

Client Sample ID: BF03@2.25-2.75

Lab Sample ID: 890-7983-11

Date Collected: 04/16/25 08:35

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158	F1	10.0		mg/Kg			04/22/25 06:20	1

Client Sample ID: BF03@3.25-3.75

Lab Sample ID: 890-7983-12

Date Collected: 04/16/25 08:41

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	332		10.1		mg/Kg			04/22/25 06:42	1

Client Sample ID: BF04@0.25-0.75

Lab Sample ID: 890-7983-13

Date Collected: 04/16/25 08:46

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		10.1		mg/Kg			04/22/25 06:49	1

Client Sample ID: BF04@1.25-1.75

Lab Sample ID: 890-7983-14

Date Collected: 04/16/25 08:52

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	187		10.1		mg/Kg			04/22/25 07:11	1

Eurofins Carlsbad

Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF04@2.25-2.75

Lab Sample ID: 890-7983-15

Date Collected: 04/16/25 08:59

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		9.92		mg/Kg			04/22/25 07:18	1

Client Sample ID: BF04@3.25-3.75

Lab Sample ID: 890-7983-16

Date Collected: 04/16/25 09:08

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		10.0		mg/Kg			04/22/25 07:25	1

Client Sample ID: BF05@0.25-0.75

Lab Sample ID: 890-7983-17

Date Collected: 04/16/25 09:23

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		9.98		mg/Kg			04/22/25 07:32	1

Client Sample ID: BF05@1.25-1.75

Lab Sample ID: 890-7983-18

Date Collected: 04/16/25 09:28

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	273		9.92		mg/Kg			04/22/25 07:39	1

Client Sample ID: BF05@2.25-2.75

Lab Sample ID: 890-7983-19

Date Collected: 04/16/25 09:35

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		10.0		mg/Kg			04/22/25 07:47	1

Client Sample ID: BF05@3.25-3.75

Lab Sample ID: 890-7983-20

Date Collected: 04/16/25 09:42

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		10.1		mg/Kg			04/22/25 07:54	1

Client Sample ID: BF06@0.25-0.75

Lab Sample ID: 890-7983-21

Date Collected: 04/16/25 10:02

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.7		10.0		mg/Kg			04/21/25 09:25	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF06@1.25-1.75

Lab Sample ID: 890-7983-22

Date Collected: 04/16/25 10:09

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		10.0		mg/Kg			04/21/25 09:47	1

Client Sample ID: BF06@2.25-2.75

Lab Sample ID: 890-7983-23

Date Collected: 04/16/25 10:16

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		9.98		mg/Kg			04/21/25 09:54	1

Client Sample ID: BF06@3.25-3.75

Lab Sample ID: 890-7983-24

Date Collected: 04/16/25 10:24

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.6		9.94		mg/Kg			04/21/25 10:01	1

Client Sample ID: BF07@0.25-1.25

Lab Sample ID: 890-7983-25

Date Collected: 04/16/25 10:57

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		9.92		mg/Kg			04/21/25 10:08	1

Client Sample ID: BF07@1.25-1.75

Lab Sample ID: 890-7983-26

Date Collected: 04/16/25 11:03

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	252		10.0		mg/Kg			04/21/25 10:43	1

Client Sample ID: BF07@2.25-2.75

Lab Sample ID: 890-7983-27

Date Collected: 04/16/25 11:10

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	229		9.94		mg/Kg			04/21/25 10:50	1

Client Sample ID: BF07@3.25-3.75

Lab Sample ID: 890-7983-28

Date Collected: 04/16/25 11:19

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		9.96		mg/Kg			04/21/25 10:57	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF08@0.25-0.75

Lab Sample ID: 890-7983-29

Date Collected: 04/16/25 11:27

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.8		9.94		mg/Kg			04/21/25 11:05	1

Client Sample ID: BF08@1.25-1.75

Lab Sample ID: 890-7983-30

Date Collected: 04/16/25 11:34

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		9.92		mg/Kg			04/21/25 11:12	1

Client Sample ID: BF08@2.25-2.75

Lab Sample ID: 890-7983-31

Date Collected: 04/16/25 11:41

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		10.0		mg/Kg			04/21/25 11:19	1

Client Sample ID: BF08@3.25-3.75

Lab Sample ID: 890-7983-32

Date Collected: 04/16/25 11:50

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		10.0		mg/Kg			04/21/25 11:41	1

Client Sample ID: BF09@0.25-0.75

Lab Sample ID: 890-7983-33

Date Collected: 04/16/25 12:58

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1410		10.0		mg/Kg			04/21/25 11:48	1

Client Sample ID: BF09@1.25-1.75

Lab Sample ID: 890-7983-34

Date Collected: 04/16/25 13:07

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3260		49.7		mg/Kg			04/21/25 12:09	5

Client Sample ID: BF09@2.25-2.75

Lab Sample ID: 890-7983-35

Date Collected: 04/16/25 13:16

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2380		49.6		mg/Kg			04/21/25 12:16	5

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF09@3.25-3.75

Lab Sample ID: 890-7983-36

Date Collected: 04/16/25 13:22

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5410		100		mg/Kg			04/21/25 12:24	10

Client Sample ID: BF10@0.25-0.75

Lab Sample ID: 890-7983-37

Date Collected: 04/16/25 13:30

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1230		9.96		mg/Kg			04/21/25 12:31	1

Client Sample ID: BF10@1.25-1.75

Lab Sample ID: 890-7983-38

Date Collected: 04/16/25 13:36

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	564		9.92		mg/Kg			04/21/25 12:38	1

Client Sample ID: BF10@2.25-2.75

Lab Sample ID: 890-7983-39

Date Collected: 04/16/25 13:45

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2890		50.1		mg/Kg			04/21/25 12:45	5

Client Sample ID: BF10@3.25-3.75

Lab Sample ID: 890-7983-40

Date Collected: 04/16/25 13:57

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5640		99.4		mg/Kg			04/21/25 12:52	10

Client Sample ID: BF11@0.25-0.75

Lab Sample ID: 890-7983-41

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	635	F1	9.98		mg/Kg			04/21/25 09:55	1

Client Sample ID: BF11@1.25-1.75

Lab Sample ID: 890-7983-42

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.9		9.98		mg/Kg			04/21/25 10:18	1

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Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF11@2.25-2.75

Lab Sample ID: 890-7983-43

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		10.0		mg/Kg			04/21/25 10:25	1

Client Sample ID: BF11@3.25-3.75

Lab Sample ID: 890-7983-44

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	278		9.96		mg/Kg			04/21/25 10:33	1

Client Sample ID: BF12@0.25-0.75

Lab Sample ID: 890-7983-45

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		9.92		mg/Kg			04/21/25 10:41	1

Client Sample ID: BF12@1.25-1.75

Lab Sample ID: 890-7983-46

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.9		10.1		mg/Kg			04/21/25 11:03	1

Client Sample ID: BF12@2.25-2.75

Lab Sample ID: 890-7983-47

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	196		10.1		mg/Kg			04/21/25 11:11	1

Client Sample ID: BF12@3.25-3.75

Lab Sample ID: 890-7983-48

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		9.94		mg/Kg			04/21/25 11:18	1

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108095/1-A

Matrix: Solid

Analysis Batch: 108131

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/22/25 04:18	1

Lab Sample ID: LCS 880-108095/2-A

Matrix: Solid

Analysis Batch: 108131

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.8		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-108095/3-A

Matrix: Solid

Analysis Batch: 108131

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.1		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 890-7983-1 MS

Matrix: Solid

Analysis Batch: 108131

Client Sample ID: BF01@0.25-0.75

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	125	F1	250	409.0	F1	mg/Kg		114	90 - 110

Lab Sample ID: 890-7983-1 MSD

Matrix: Solid

Analysis Batch: 108131

Client Sample ID: BF01@0.25-0.75

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	125	F1	250	412.0	F1	mg/Kg		115	90 - 110	1	20

Lab Sample ID: 890-7983-11 MS

Matrix: Solid

Analysis Batch: 108131

Client Sample ID: BF03@2.25-2.75

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	158	F1	251	451.0	F1	mg/Kg		117	90 - 110

Lab Sample ID: 890-7983-11 MSD

Matrix: Solid

Analysis Batch: 108131

Client Sample ID: BF03@2.25-2.75

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	158	F1	251	451.7	F1	mg/Kg		117	90 - 110	0	20

Lab Sample ID: MB 880-108136/1-A

Matrix: Solid

Analysis Batch: 108141

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/21/25 09:33	1

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-108136/2-A

Matrix: Solid

Analysis Batch: 108141

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	269.5		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-108136/3-A

Matrix: Solid

Analysis Batch: 108141

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	267.2		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 890-7983-41 MS

Matrix: Solid

Analysis Batch: 108141

Client Sample ID: BF11@0.25-0.75

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	635	F1	250	922.5	F1	mg/Kg		115	90 - 110

Lab Sample ID: 890-7983-41 MSD

Matrix: Solid

Analysis Batch: 108141

Client Sample ID: BF11@0.25-0.75

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	635	F1	250	922.6	F1	mg/Kg		115	90 - 110	0	20

Lab Sample ID: MB 880-108096/1-A

Matrix: Solid

Analysis Batch: 108142

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/21/25 09:04	1

Lab Sample ID: LCS 880-108096/2-A

Matrix: Solid

Analysis Batch: 108142

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-108096/3-A

Matrix: Solid

Analysis Batch: 108142

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	239.1		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-7983-21 MS

Matrix: Solid

Analysis Batch: 108142

Client Sample ID: BF06@0.25-0.75

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	98.7		251	362.5		mg/Kg		105	90 - 110

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QC Sample Results

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7983-21 MSD

Client Sample ID: BF06@0.25-0.75

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 108142

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	98.7		251	364.3		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-7983-31 MS

Client Sample ID: BF08@2.25-2.75

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 108142

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	245		251	494.0		mg/Kg		99	90 - 110		

Lab Sample ID: 890-7983-31 MSD

Client Sample ID: BF08@2.25-2.75

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 108142

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	245		251	501.0		mg/Kg		102	90 - 110	1	20

QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

HPLC/IC

Leach Batch: 108095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7983-1	BF01@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-2	BF01@1.25-1.75	Soluble	Solid	DI Leach	
890-7983-3	BF01@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-4	BF01@3.25-3.75	Soluble	Solid	DI Leach	
890-7983-5	BF02@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-6	BF02@1.25-1.75	Soluble	Solid	DI Leach	
890-7983-7	BF02@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-8	BF02@3.25-3.75	Soluble	Solid	DI Leach	
890-7983-9	BF03@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-10	BF03@1.25-1.75	Soluble	Solid	DI Leach	
890-7983-11	BF03@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-12	BF03@3.25-3.75	Soluble	Solid	DI Leach	
890-7983-13	BF04@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-14	BF04@1.25-1.75	Soluble	Solid	DI Leach	
890-7983-15	BF04@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-16	BF04@3.25-3.75	Soluble	Solid	DI Leach	
890-7983-17	BF05@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-18	BF05@1.25-1.75	Soluble	Solid	DI Leach	
890-7983-19	BF05@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-20	BF05@3.25-3.75	Soluble	Solid	DI Leach	
MB 880-108095/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108095/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108095/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7983-1 MS	BF01@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-1 MSD	BF01@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-11 MS	BF03@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-11 MSD	BF03@2.25-2.75	Soluble	Solid	DI Leach	

Leach Batch: 108096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7983-21	BF06@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-22	BF06@1.25-1.75	Soluble	Solid	DI Leach	
890-7983-23	BF06@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-24	BF06@3.25-3.75	Soluble	Solid	DI Leach	
890-7983-25	BF07@0.25-1.25	Soluble	Solid	DI Leach	
890-7983-26	BF07@1.25-1.75	Soluble	Solid	DI Leach	
890-7983-27	BF07@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-28	BF07@3.25-3.75	Soluble	Solid	DI Leach	
890-7983-29	BF08@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-30	BF08@1.25-1.75	Soluble	Solid	DI Leach	
890-7983-31	BF08@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-32	BF08@3.25-3.75	Soluble	Solid	DI Leach	
890-7983-33	BF09@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-34	BF09@1.25-1.75	Soluble	Solid	DI Leach	
890-7983-35	BF09@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-36	BF09@3.25-3.75	Soluble	Solid	DI Leach	
890-7983-37	BF10@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-38	BF10@1.25-1.75	Soluble	Solid	DI Leach	
890-7983-39	BF10@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-40	BF10@3.25-3.75	Soluble	Solid	DI Leach	
MB 880-108096/1-A	Method Blank	Soluble	Solid	DI Leach	

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QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

HPLC/IC (Continued)

Leach Batch: 108096 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-108096/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108096/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7983-21 MS	BF06@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-21 MSD	BF06@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-31 MS	BF08@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-31 MSD	BF08@2.25-2.75	Soluble	Solid	DI Leach	

Analysis Batch: 108131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7983-1	BF01@0.25-0.75	Soluble	Solid	300.0	108095
890-7983-2	BF01@1.25-1.75	Soluble	Solid	300.0	108095
890-7983-3	BF01@2.25-2.75	Soluble	Solid	300.0	108095
890-7983-4	BF01@3.25-3.75	Soluble	Solid	300.0	108095
890-7983-5	BF02@0.25-0.75	Soluble	Solid	300.0	108095
890-7983-6	BF02@1.25-1.75	Soluble	Solid	300.0	108095
890-7983-7	BF02@2.25-2.75	Soluble	Solid	300.0	108095
890-7983-8	BF02@3.25-3.75	Soluble	Solid	300.0	108095
890-7983-9	BF03@0.25-0.75	Soluble	Solid	300.0	108095
890-7983-10	BF03@1.25-1.75	Soluble	Solid	300.0	108095
890-7983-11	BF03@2.25-2.75	Soluble	Solid	300.0	108095
890-7983-12	BF03@3.25-3.75	Soluble	Solid	300.0	108095
890-7983-13	BF04@0.25-0.75	Soluble	Solid	300.0	108095
890-7983-14	BF04@1.25-1.75	Soluble	Solid	300.0	108095
890-7983-15	BF04@2.25-2.75	Soluble	Solid	300.0	108095
890-7983-16	BF04@3.25-3.75	Soluble	Solid	300.0	108095
890-7983-17	BF05@0.25-0.75	Soluble	Solid	300.0	108095
890-7983-18	BF05@1.25-1.75	Soluble	Solid	300.0	108095
890-7983-19	BF05@2.25-2.75	Soluble	Solid	300.0	108095
890-7983-20	BF05@3.25-3.75	Soluble	Solid	300.0	108095
MB 880-108095/1-A	Method Blank	Soluble	Solid	300.0	108095
LCS 880-108095/2-A	Lab Control Sample	Soluble	Solid	300.0	108095
LCSD 880-108095/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108095
890-7983-1 MS	BF01@0.25-0.75	Soluble	Solid	300.0	108095
890-7983-1 MSD	BF01@0.25-0.75	Soluble	Solid	300.0	108095
890-7983-11 MS	BF03@2.25-2.75	Soluble	Solid	300.0	108095
890-7983-11 MSD	BF03@2.25-2.75	Soluble	Solid	300.0	108095

Leach Batch: 108136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7983-41	BF11@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-42	BF11@1.25-1.75	Soluble	Solid	DI Leach	
890-7983-43	BF11@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-44	BF11@3.25-3.75	Soluble	Solid	DI Leach	
890-7983-45	BF12@0.25-0.75	Soluble	Solid	DI Leach	
890-7983-46	BF12@1.25-1.75	Soluble	Solid	DI Leach	
890-7983-47	BF12@2.25-2.75	Soluble	Solid	DI Leach	
890-7983-48	BF12@3.25-3.75	Soluble	Solid	DI Leach	
MB 880-108136/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108136/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108136/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7983-41 MS	BF11@0.25-0.75	Soluble	Solid	DI Leach	

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QC Association Summary

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

HPLC/IC (Continued)

Leach Batch: 108136 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7983-41 MSD	BF11@0.25-0.75	Soluble	Solid	DI Leach	

Analysis Batch: 108141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7983-41	BF11@0.25-0.75	Soluble	Solid	300.0	108136
890-7983-42	BF11@1.25-1.75	Soluble	Solid	300.0	108136
890-7983-43	BF11@2.25-2.75	Soluble	Solid	300.0	108136
890-7983-44	BF11@3.25-3.75	Soluble	Solid	300.0	108136
890-7983-45	BF12@0.25-0.75	Soluble	Solid	300.0	108136
890-7983-46	BF12@1.25-1.75	Soluble	Solid	300.0	108136
890-7983-47	BF12@2.25-2.75	Soluble	Solid	300.0	108136
890-7983-48	BF12@3.25-3.75	Soluble	Solid	300.0	108136
MB 880-108136/1-A	Method Blank	Soluble	Solid	300.0	108136
LCS 880-108136/2-A	Lab Control Sample	Soluble	Solid	300.0	108136
LCSD 880-108136/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108136
890-7983-41 MS	BF11@0.25-0.75	Soluble	Solid	300.0	108136
890-7983-41 MSD	BF11@0.25-0.75	Soluble	Solid	300.0	108136

Analysis Batch: 108142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7983-21	BF06@0.25-0.75	Soluble	Solid	300.0	108096
890-7983-22	BF06@1.25-1.75	Soluble	Solid	300.0	108096
890-7983-23	BF06@2.25-2.75	Soluble	Solid	300.0	108096
890-7983-24	BF06@3.25-3.75	Soluble	Solid	300.0	108096
890-7983-25	BF07@0.25-1.25	Soluble	Solid	300.0	108096
890-7983-26	BF07@1.25-1.75	Soluble	Solid	300.0	108096
890-7983-27	BF07@2.25-2.75	Soluble	Solid	300.0	108096
890-7983-28	BF07@3.25-3.75	Soluble	Solid	300.0	108096
890-7983-29	BF08@0.25-0.75	Soluble	Solid	300.0	108096
890-7983-30	BF08@1.25-1.75	Soluble	Solid	300.0	108096
890-7983-31	BF08@2.25-2.75	Soluble	Solid	300.0	108096
890-7983-32	BF08@3.25-3.75	Soluble	Solid	300.0	108096
890-7983-33	BF09@0.25-0.75	Soluble	Solid	300.0	108096
890-7983-34	BF09@1.25-1.75	Soluble	Solid	300.0	108096
890-7983-35	BF09@2.25-2.75	Soluble	Solid	300.0	108096
890-7983-36	BF09@3.25-3.75	Soluble	Solid	300.0	108096
890-7983-37	BF10@0.25-0.75	Soluble	Solid	300.0	108096
890-7983-38	BF10@1.25-1.75	Soluble	Solid	300.0	108096
890-7983-39	BF10@2.25-2.75	Soluble	Solid	300.0	108096
890-7983-40	BF10@3.25-3.75	Soluble	Solid	300.0	108096
MB 880-108096/1-A	Method Blank	Soluble	Solid	300.0	108096
LCS 880-108096/2-A	Lab Control Sample	Soluble	Solid	300.0	108096
LCSD 880-108096/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108096
890-7983-21 MS	BF06@0.25-0.75	Soluble	Solid	300.0	108096
890-7983-21 MSD	BF06@0.25-0.75	Soluble	Solid	300.0	108096
890-7983-31 MS	BF08@2.25-2.75	Soluble	Solid	300.0	108096
890-7983-31 MSD	BF08@2.25-2.75	Soluble	Solid	300.0	108096

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Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF01@0.25-0.75

Lab Sample ID: 890-7983-1

Date Collected: 04/16/25 07:44

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 04:40

Client Sample ID: BF01@1.25-1.75

Lab Sample ID: 890-7983-2

Date Collected: 04/16/25 07:49

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 05:02

Client Sample ID: BF01@2.25-2.75

Lab Sample ID: 890-7983-3

Date Collected: 04/16/25 07:56

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 05:09

Client Sample ID: BF01@3.25-3.75

Lab Sample ID: 890-7983-4

Date Collected: 04/16/25 08:04

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 05:16

Client Sample ID: BF02@0.25-0.75

Lab Sample ID: 890-7983-5

Date Collected: 04/16/25 08:10

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 05:23

Client Sample ID: BF02@1.25-1.75

Lab Sample ID: 890-7983-6

Date Collected: 04/16/25 08:14

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 05:45

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Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF02@2.25-2.75

Lab Sample ID: 890-7983-7

Date Collected: 04/16/25 08:17

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 05:52

Client Sample ID: BF02@3.25-3.75

Lab Sample ID: 890-7983-8

Date Collected: 04/16/25 08:21

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 05:59

Client Sample ID: BF03@0.25-0.75

Lab Sample ID: 890-7983-9

Date Collected: 04/16/25 08:26

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 06:06

Client Sample ID: BF03@1.25-1.75

Lab Sample ID: 890-7983-10

Date Collected: 04/16/25 08:31

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 06:13

Client Sample ID: BF03@2.25-2.75

Lab Sample ID: 890-7983-11

Date Collected: 04/16/25 08:35

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 06:20

Client Sample ID: BF03@3.25-3.75

Lab Sample ID: 890-7983-12

Date Collected: 04/16/25 08:41

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 06:42

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Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF04@0.25-0.75

Lab Sample ID: 890-7983-13

Date Collected: 04/16/25 08:46

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 06:49

Client Sample ID: BF04@1.25-1.75

Lab Sample ID: 890-7983-14

Date Collected: 04/16/25 08:52

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 07:11

Client Sample ID: BF04@2.25-2.75

Lab Sample ID: 890-7983-15

Date Collected: 04/16/25 08:59

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 07:18

Client Sample ID: BF04@3.25-3.75

Lab Sample ID: 890-7983-16

Date Collected: 04/16/25 09:08

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 07:25

Client Sample ID: BF05@0.25-0.75

Lab Sample ID: 890-7983-17

Date Collected: 04/16/25 09:23

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 07:32

Client Sample ID: BF05@1.25-1.75

Lab Sample ID: 890-7983-18

Date Collected: 04/16/25 09:28

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 07:39

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Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF05@2.25-2.75

Lab Sample ID: 890-7983-19

Date Collected: 04/16/25 09:35

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 07:47

Client Sample ID: BF05@3.25-3.75

Lab Sample ID: 890-7983-20

Date Collected: 04/16/25 09:42

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108095	SA	EET MID	04/18/25 11:44
Soluble	Analysis	300.0		1	108131	CH	EET MID	04/22/25 07:54

Client Sample ID: BF06@0.25-0.75

Lab Sample ID: 890-7983-21

Date Collected: 04/16/25 10:02

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 09:25

Client Sample ID: BF06@1.25-1.75

Lab Sample ID: 890-7983-22

Date Collected: 04/16/25 10:09

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 09:47

Client Sample ID: BF06@2.25-2.75

Lab Sample ID: 890-7983-23

Date Collected: 04/16/25 10:16

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 09:54

Client Sample ID: BF06@3.25-3.75

Lab Sample ID: 890-7983-24

Date Collected: 04/16/25 10:24

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 10:01

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Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF07@0.25-1.25

Lab Sample ID: 890-7983-25

Date Collected: 04/16/25 10:57

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 10:08

Client Sample ID: BF07@1.25-1.75

Lab Sample ID: 890-7983-26

Date Collected: 04/16/25 11:03

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 10:43

Client Sample ID: BF07@2.25-2.75

Lab Sample ID: 890-7983-27

Date Collected: 04/16/25 11:10

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 10:50

Client Sample ID: BF07@3.25-3.75

Lab Sample ID: 890-7983-28

Date Collected: 04/16/25 11:19

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 10:57

Client Sample ID: BF08@0.25-0.75

Lab Sample ID: 890-7983-29

Date Collected: 04/16/25 11:27

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 11:05

Client Sample ID: BF08@1.25-1.75

Lab Sample ID: 890-7983-30

Date Collected: 04/16/25 11:34

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 11:12

Eurofins Carlsbad

Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF08@2.25-2.75

Lab Sample ID: 890-7983-31

Date Collected: 04/16/25 11:41

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 11:19

Client Sample ID: BF08@3.25-3.75

Lab Sample ID: 890-7983-32

Date Collected: 04/16/25 11:50

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 11:41

Client Sample ID: BF09@0.25-0.75

Lab Sample ID: 890-7983-33

Date Collected: 04/16/25 12:58

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 11:48

Client Sample ID: BF09@1.25-1.75

Lab Sample ID: 890-7983-34

Date Collected: 04/16/25 13:07

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		5	108142	SMC	EET MID	04/21/25 12:09

Client Sample ID: BF09@2.25-2.75

Lab Sample ID: 890-7983-35

Date Collected: 04/16/25 13:16

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		5	108142	SMC	EET MID	04/21/25 12:16

Client Sample ID: BF09@3.25-3.75

Lab Sample ID: 890-7983-36

Date Collected: 04/16/25 13:22

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		10	108142	SMC	EET MID	04/21/25 12:24

Eurofins Carlsbad

Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF10@0.25-0.75

Lab Sample ID: 890-7983-37

Date Collected: 04/16/25 13:30

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 12:31

Client Sample ID: BF10@1.25-1.75

Lab Sample ID: 890-7983-38

Date Collected: 04/16/25 13:36

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		1	108142	SMC	EET MID	04/21/25 12:38

Client Sample ID: BF10@2.25-2.75

Lab Sample ID: 890-7983-39

Date Collected: 04/16/25 13:45

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		5	108142	SMC	EET MID	04/21/25 12:45

Client Sample ID: BF10@3.25-3.75

Lab Sample ID: 890-7983-40

Date Collected: 04/16/25 13:57

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Soluble	Analysis	300.0		10	108142	SMC	EET MID	04/21/25 12:52

Client Sample ID: BF11@0.25-0.75

Lab Sample ID: 890-7983-41

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108136	SA	EET MID	04/18/25 15:49
Soluble	Analysis	300.0		1	108141	SMC	EET MID	04/21/25 09:55

Client Sample ID: BF11@1.25-1.75

Lab Sample ID: 890-7983-42

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108136	SA	EET MID	04/18/25 15:49
Soluble	Analysis	300.0		1	108141	SMC	EET MID	04/21/25 10:18

Eurofins Carlsbad

Lab Chronicle

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Client Sample ID: BF11@2.25-2.75

Lab Sample ID: 890-7983-43

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108136	SA	EET MID	04/18/25 15:49
Soluble	Analysis	300.0		1	108141	SMC	EET MID	04/21/25 10:25

Client Sample ID: BF11@3.25-3.75

Lab Sample ID: 890-7983-44

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108136	SA	EET MID	04/18/25 15:49
Soluble	Analysis	300.0		1	108141	SMC	EET MID	04/21/25 10:33

Client Sample ID: BF12@0.25-0.75

Lab Sample ID: 890-7983-45

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108136	SA	EET MID	04/18/25 15:49
Soluble	Analysis	300.0		1	108141	SMC	EET MID	04/21/25 10:41

Client Sample ID: BF12@1.25-1.75

Lab Sample ID: 890-7983-46

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108136	SA	EET MID	04/18/25 15:49
Soluble	Analysis	300.0		1	108141	SMC	EET MID	04/21/25 11:03

Client Sample ID: BF12@2.25-2.75

Lab Sample ID: 890-7983-47

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108136	SA	EET MID	04/18/25 15:49
Soluble	Analysis	300.0		1	108141	SMC	EET MID	04/21/25 11:11

Client Sample ID: BF12@3.25-3.75

Lab Sample ID: 890-7983-48

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/17/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			108136	SA	EET MID	04/18/25 15:49
Soluble	Analysis	300.0		1	108141	SMC	EET MID	04/21/25 11:18

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Laboratory: Eurofins Midland

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

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

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

Method Summary

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

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

Sample Summary

Client: CDH Consulting
Project/Site: WESTALL WATER LINE

Job ID: 890-7983-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7983-1	BF01@0.25-0.75	Solid	04/16/25 07:44	04/17/25 14:43
890-7983-2	BF01@1.25-1.75	Solid	04/16/25 07:49	04/17/25 14:43
890-7983-3	BF01@2.25-2.75	Solid	04/16/25 07:56	04/17/25 14:43
890-7983-4	BF01@3.25-3.75	Solid	04/16/25 08:04	04/17/25 14:43
890-7983-5	BF02@0.25-0.75	Solid	04/16/25 08:10	04/17/25 14:43
890-7983-6	BF02@1.25-1.75	Solid	04/16/25 08:14	04/17/25 14:43
890-7983-7	BF02@2.25-2.75	Solid	04/16/25 08:17	04/17/25 14:43
890-7983-8	BF02@3.25-3.75	Solid	04/16/25 08:21	04/17/25 14:43
890-7983-9	BF03@0.25-0.75	Solid	04/16/25 08:26	04/17/25 14:43
890-7983-10	BF03@1.25-1.75	Solid	04/16/25 08:31	04/17/25 14:43
890-7983-11	BF03@2.25-2.75	Solid	04/16/25 08:35	04/17/25 14:43
890-7983-12	BF03@3.25-3.75	Solid	04/16/25 08:41	04/17/25 14:43
890-7983-13	BF04@0.25-0.75	Solid	04/16/25 08:46	04/17/25 14:43
890-7983-14	BF04@1.25-1.75	Solid	04/16/25 08:52	04/17/25 14:43
890-7983-15	BF04@2.25-2.75	Solid	04/16/25 08:59	04/17/25 14:43
890-7983-16	BF04@3.25-3.75	Solid	04/16/25 09:08	04/17/25 14:43
890-7983-17	BF05@0.25-0.75	Solid	04/16/25 09:23	04/17/25 14:43
890-7983-18	BF05@1.25-1.75	Solid	04/16/25 09:28	04/17/25 14:43
890-7983-19	BF05@2.25-2.75	Solid	04/16/25 09:35	04/17/25 14:43
890-7983-20	BF05@3.25-3.75	Solid	04/16/25 09:42	04/17/25 14:43
890-7983-21	BF06@0.25-0.75	Solid	04/16/25 10:02	04/17/25 14:43
890-7983-22	BF06@1.25-1.75	Solid	04/16/25 10:09	04/17/25 14:43
890-7983-23	BF06@2.25-2.75	Solid	04/16/25 10:16	04/17/25 14:43
890-7983-24	BF06@3.25-3.75	Solid	04/16/25 10:24	04/17/25 14:43
890-7983-25	BF07@0.25-1.25	Solid	04/16/25 10:57	04/17/25 14:43
890-7983-26	BF07@1.25-1.75	Solid	04/16/25 11:03	04/17/25 14:43
890-7983-27	BF07@2.25-2.75	Solid	04/16/25 11:10	04/17/25 14:43
890-7983-28	BF07@3.25-3.75	Solid	04/16/25 11:19	04/17/25 14:43
890-7983-29	BF08@0.25-0.75	Solid	04/16/25 11:27	04/17/25 14:43
890-7983-30	BF08@1.25-1.75	Solid	04/16/25 11:34	04/17/25 14:43
890-7983-31	BF08@2.25-2.75	Solid	04/16/25 11:41	04/17/25 14:43
890-7983-32	BF08@3.25-3.75	Solid	04/16/25 11:50	04/17/25 14:43
890-7983-33	BF09@0.25-0.75	Solid	04/16/25 12:58	04/17/25 14:43
890-7983-34	BF09@1.25-1.75	Solid	04/16/25 13:07	04/17/25 14:43
890-7983-35	BF09@2.25-2.75	Solid	04/16/25 13:16	04/17/25 14:43
890-7983-36	BF09@3.25-3.75	Solid	04/16/25 13:22	04/17/25 14:43
890-7983-37	BF10@0.25-0.75	Solid	04/16/25 13:30	04/17/25 14:43
890-7983-38	BF10@1.25-1.75	Solid	04/16/25 13:36	04/17/25 14:43
890-7983-39	BF10@2.25-2.75	Solid	04/16/25 13:45	04/17/25 14:43
890-7983-40	BF10@3.25-3.75	Solid	04/16/25 13:57	04/17/25 14:43
890-7983-41	BF11@0.25-0.75	Solid	04/16/25 00:00	04/17/25 14:43
890-7983-42	BF11@1.25-1.75	Solid	04/16/25 00:00	04/17/25 14:43
890-7983-43	BF11@2.25-2.75	Solid	04/16/25 00:00	04/17/25 14:43
890-7983-44	BF11@3.25-3.75	Solid	04/16/25 00:00	04/17/25 14:43
890-7983-45	BF12@0.25-0.75	Solid	04/16/25 00:00	04/17/25 14:43
890-7983-46	BF12@1.25-1.75	Solid	04/16/25 00:00	04/17/25 14:43
890-7983-47	BF12@2.25-2.75	Solid	04/16/25 00:00	04/17/25 14:43
890-7983-48	BF12@3.25-3.75	Solid	04/16/25 00:00	04/17/25 14:43

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



Environment Testing
Xenco



890-7983 Chain of Custody

Project Manager:	Michael Wicker	Bill to: (if different)	CDH Consulting
Company Name:	Mur. Wm operating	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	606-970-8459	Email:	mwicker@cdhconsult.com

ANALYSIS REQUEST										Preservative Codes	
Project Name:	Project Number:	Project Location:	Sampler's Name:	P.O. #:	Turn Around	Due Date:	Parameters	Pres. Code	Sample Comments		
Westall Water Line					☒ Routine ☐ Rush				None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP		
Exco Hills Wm											
Dakotah Cret											
SAMPLE RECEIPT					Temp Blank:	Wet Ice:					
Samples Received Intact:					Yes No	Thermometer ID:					
Cooler Custody Seals:					Yes No	Correction Factor:					
Sample Custody Seals:					Yes No	Temperature Reading:					
Total Containers:					Corrected Temperature:						
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont					
BF0100.25-0.75	S	4/16/2025	07:44		1	1					
BF0101.25-1.75			07:49								
BF0102.25-2.75			07:56								
BF0103.25-3.75			08:04								
BF0200.25-0.75			08:10								
BF0201.25-1.75			08:14								
BF0202.25-2.75			08:17								
BF0203.25-3.75			08:21								
BF0300.25-0.75			08:26								
BF0301.25-1.75			08:31								

Total	2007/6010	2008/6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471		

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. [Signature]	[Signature]	14:43 4/27			
3. [Signature]					
5. [Signature]					

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody



Environment Testing

Xenco

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 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

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Page

2 of 5

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Manager: Michael Wicker Bill to: (if different) COH Consulting

Company Name: Mr. nm operating Company Name:

Address: Address:

City, State ZIP: City, State ZIP:

Phone: 616-970-8459 Email: uwicker@cdhconsult.com

ANALYSIS REQUEST										Preservative Codes	
Project Name:	Turn Around	Pres. Code									
Project Number:	☒ Routine ☐ Rush										
Project Location:	Due Date:										
Sampler's Name:	TAT starts the day received by the lab, if received by 4:30pm										
PO #:											
SAMPLE RECEIPT			Temp Blank:	Yes	No	Wet Ice:	Yes	No			
Samples Received Intact:	Yes	No	Thermometer ID:								
Cooler Custody Seals:	Yes	No	Correction Factor:								
Sample Custody Seals:	Yes	No	Temperature Reading:								
Total Containers:	Yes	No	Corrected Temperature:								
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont					
BF03@2.25-3.75	S	4/16/2016	08:35		G	1					
BF03@3.25-3.75			08:41								
BF04@0.25-0.75			08:46								
BF04@1.25-1.75			08:52								
BF04@2.25-2.75			08:59								
BF04@3.25-3.75			09:08								
BF05@0.25-0.75			09:23								
BF05@1.25-1.75			09:28								
BF05@2.25-2.75			09:35								
BF05@3.25-3.75			09:42								

Parameters: CHLORIDES

Preservative Codes: None: NO, DI Water: H₂O, Cool: Cool, MeOH: Me, HCL: HC, HNO₃: HN, H₂SO₄: H₂, NaOH: Na, H₃PO₄: HP, NaHSO₄: NABIS, Na₂S₂O₃: NaSO₃, Zn Acetate+NaOH: Zn, NaOH+Ascorbic Acid: SAPC

Sample Comments:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>Michael Wicker</u>	<u>uwicker</u>	<u>4/16</u>			

Revised Date: 08/25/2020 Rev. 20202

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



Environment Testing

Xenco

Work Order No:

www.xenco.com

Page

4 of 5

Project Manager:	Michael Wicker	Bill to: (if different)	CDH Consulting
Company Name:	Mr. DM Operating	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	610-970-8459	Email:	mwicker@cdhconsulting.com

Project Name:	Westfall water line	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:		Due Date:			
Project Location:	1000 Hills NMI	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Dakotah Cvetko	Wet Ice:	Yes No		
P.O. #:		Thermometer ID:			
		Correction Factor:			
		Temperature/Reading:			
		Corrected Temperature:			

SAMPLE RECEIPT				ANALYSIS REQUEST				PRESERVATIVE CODES			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	None	NO	DI Water: H ₂ O	Sample Comments
BF08 0.25-2.75	S	4/16/2025	11:41		G	1	CHLORIDES				
BF08 0.25-3.75			11:50								
BF09 0.25-0.75			12:58								
BF10 0.25-1.75			13:07								
BF09 0.25-2.75			13:10								
BF09 0.25-3.75			13:23								
BF10 0.25-0.75			13:30								
BF10 0.25-1.75			13:36								
BF10 0.25-2.75			13:45								
BF10 0.25-3.75			13:57								

Total	200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471		

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Dakotah Cvetko	abch	4/16/25			

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco



Work Order No: _____

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Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Reporting: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: ☐ EDD ☐ ADaPT ☐ Other: _____

Project Manager: Michael Wicker Bill-to: (if different) CDH Consulting

Company Name: Mr. M. Operating Company Name: _____

Address: _____ Address: _____

City, State ZIP: _____ City, State ZIP: _____

Phone: 606-970-8459 Email: mwicker@cdhconsult.com

Project Name:		Turn Around		Parameters		ANALYSIS REQUEST		Preservative Codes	
Project Number:	Project Location:	Sampler's Name:	PO #:	Temp Blank:	Yes No	Wet Ice:	Yes No	Pres. Code	Sample Comments
840600.25-0.75	Westall Water Line	Loco Hills NM	840600.25-0.75	Yes No	Wet Ice:	Yes No	Wet Ice:	None: NO	DI Water: H ₂ O
840600.25-1.75				Yes No	Thermometer ID:	Yes No	Thermometer ID:	Cool: Cool	MeOH: Me
840600.25-2.75				Yes No	Correction Factor:	Yes No	Correction Factor:	HCL: HC	HNO ₃ : HN
840600.25-3.75				Yes No	Temperature Reading:	Yes No	Temperature Reading:	H ₂ SO ₄ : H ₂	NaOH: Na
840700.25-0.75				Yes No	Temperature Reading:	Yes No	Temperature Reading:	H ₃ PO ₄ : HP	NaHSO ₄ : NABIS
840700.25-1.75				Yes No	Temperature Reading:	Yes No	Temperature Reading:	Na ₂ S ₂ O ₃ : NaSO ₃	Zn Acetate+NaOH: Zn
840700.25-2.75				Yes No	Temperature Reading:	Yes No	Temperature Reading:	NaOH+Ascorbic Acid: SAPC	
840700.25-3.75				Yes No	Temperature Reading:	Yes No	Temperature Reading:		
840800.25-0.75				Yes No	Temperature Reading:	Yes No	Temperature Reading:		
840800.25-1.75				Yes No	Temperature Reading:	Yes No	Temperature Reading:		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>Michael Wicker</u>	<u>aldr</u>	<u>4/14/2025</u>			

Revised Date: 08/25/2020 Rev. 2000.2

Login Sample Receipt Checklist

Client: CDH Consulting

Job Number: 890-7983-1

Login Number: 7983

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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

Login Sample Receipt Checklist

Client: CDH Consulting

Job Number: 890-7983-1

Login Number: 7983

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 04/17/25 08:56 PM

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

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

QUESTIONS

Action 460898

QUESTIONS

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 460898
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2322554757
Incident Name	NAPP2322554757 WATER DISPOSAL FLOWLINE RELEASE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source*Please answer all the questions in this group.*

Site Name	WATER DISPOSAL FLOWLINE RELEASE
Date Release Discovered	07/31/2023
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: Human Error Flow Line - Production Produced Water Released: 150 BBL Recovered: 25 BBL Lost: 125 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 460898

QUESTIONS (continued)

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 460898
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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: Ginger Fast Title: Consultant Email: gfast@CDHConsult.com Date: 10/04/2024
--	---

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QUESTIONS, Page 3

Action 460898

QUESTIONS (continued)

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 460898
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (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
<i>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.</i>	
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)	13900
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
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	12/15/2024
On what date will (or did) the final sampling or liner inspection occur	09/05/2024
On what date will (or was) the remediation complete(d)	12/31/2024
What is the estimated surface area (in square feet) that will be reclaimed	4600
What is the estimated volume (in cubic yards) that will be reclaimed	700
What is the estimated surface area (in square feet) that will be remediated	4600
What is the estimated volume (in cubic yards) that will be remediated	700

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 460898

QUESTIONS (continued)

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 460898
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<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: Ginger Fast Title: Consultant Email: gfast@CDHConsult.com Date: 05/22/2025
<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 460898

QUESTIONS (continued)

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 460898
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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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QUESTIONS, Page 6

Action 460898

QUESTIONS (continued)

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 460898
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	451119
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/16/2025
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	746

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 460898

CONDITIONS

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 460898
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with the following conditions: Five point composite samples must be collected from the base of the excavation representing no more than 200 ft2 and sidewall composite samples must represent no more than 200 ft2 to ensure all contaminated backfill has been removed. These may be tested for chloride only. The new backfill and topsoil must each also have a five point composite sample collected, to be submitted to a laboratory and tested for all Table I constituents prior to placement. Submit updated report to OCD by 8/4/25.	6/5/2025