

CDH Consulting, LLC Thornton, Colorado 720.431.7468 www.CDHConsult.com

### **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



August 6, 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 incompliance 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.

#### REMEDIATION 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 19<sup>th</sup>, 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).

On July 16, 2025, CDH personnel returned to the site with MR NM excavation contractors to excavate the chloride-impacted backfill material. Following excavation, five-point composite samples were collected from the base of the excavation representing no more than 200 square feet and sidewall composite samples were collected representing no more than 200 square feet to ensure all contaminated backfill was removed. The MR NM excavation contractor imported and stockpiled new backfill and topsoil onsite. Five-point composite samples were also collected from the new backfill and topsoil. All 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. The excavation floor and sidewall samples were submitted for laboratory analysis of chloride per EPA Method 300.0 and the backfill and topsoil samples were submitted for BTEX per EPA Method 8021B, TPH per EPA Method 8015, and chloride per EPA Method 300.0. Laboratory analytical results indicated that excavation sidewall samples BFN and BFS exceeded Reclamation standards for chloride at 1,110 mg/kg and 808 mg/kg, respectively.

On July 22, 2025, CDH personnel returned to the site with MR NM excavation contractors to further excavate the chloride-impacted backfill material in the vicinity of sidewall samples BFN and BFS. Approximately 1 foot of additional material was excavated laterally and approximately 0.5 feet of additional material was excavated vertically on the north and south sidewalls. New five-point composite sidewall samples were collected and 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 the new BFN and BFS sidewall samples were in compliance with Reclamation standards for chloride.

All final soil samples collected from the sidewalls and floor were below the OCD Reclamation Standard. Figure 6 presents soil sample locations for the April and July sampling events and the final excavation extent that was required to remove all chloride-impacted backfill above the OCD Reclamation Standard.

The excavation was backfilled with non-waste containing, uncontaminated, earthen material in accordance with 19.15.29.13.D.(1) NMAC.

#### REMEDIATION CLOSURE REQUEST

As MR NM has removed chloride-impacted soil per the OCD-approved Site Characterization & Remediation Plan and in accordance with 19.15.29 NMAC, CDH on behalf of MR NM, respectfully requests the OCD reassign Remediation Closure to Incident #nAPP2322554757.

Please do not hesitate to contact Devin Girtin at (303) 895-7556 or dgirtin@cdhconsult.com if you have any questions or require additional information.



Kind Regards,

**CDH CONSULTING, LLC** 

Devin Girtin, P.G., PMP

Program Manager

#### **Attachments:**

**Figures** 

Table

Attachment A – OCD Correspondence

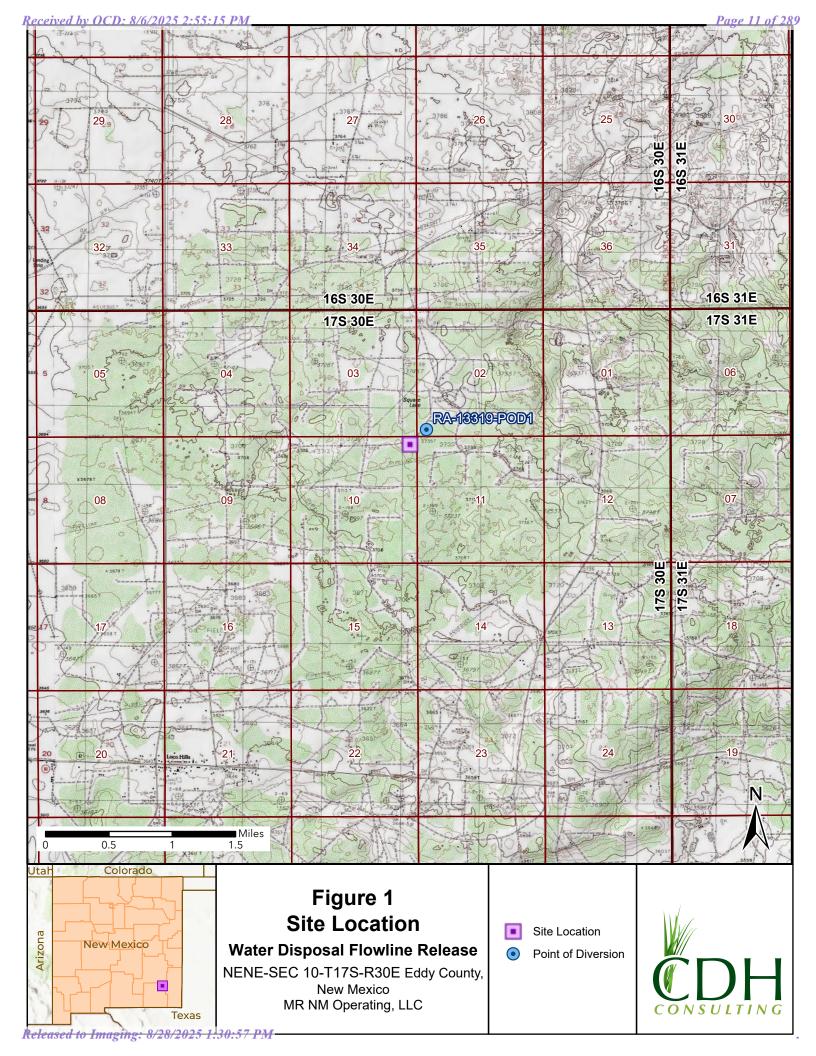
Attachment B – Waste Manifests Summary

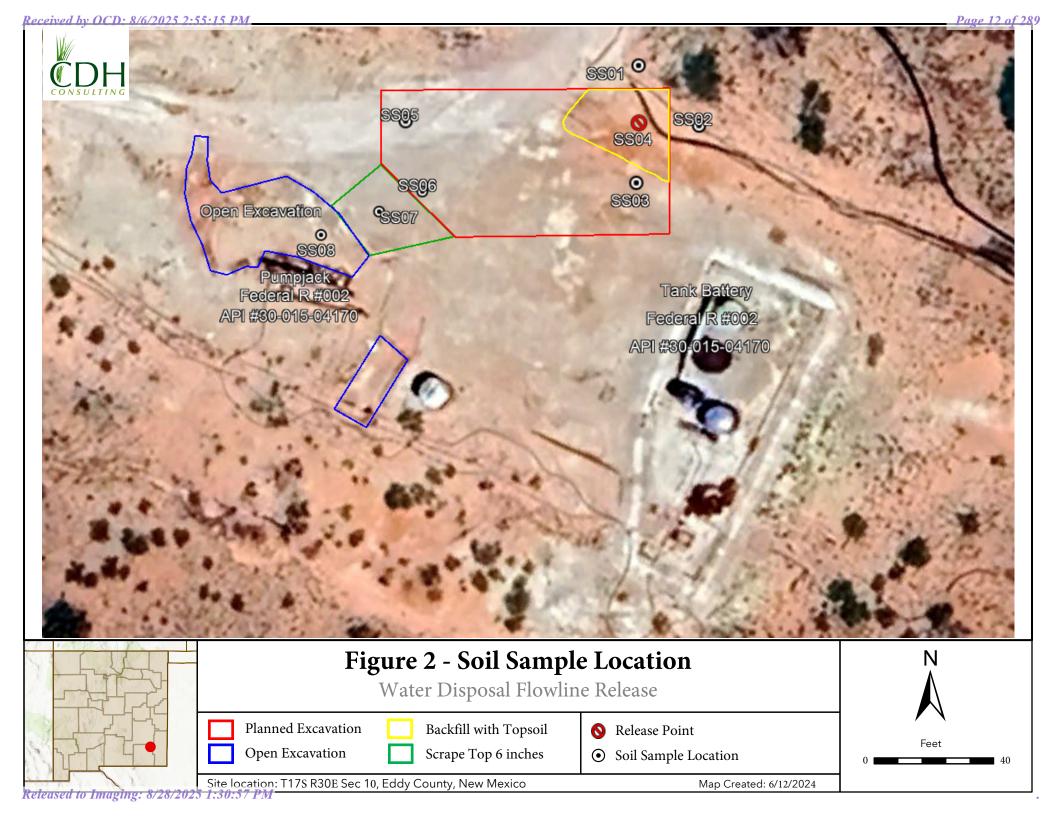
Attachment C – Photographic Logs

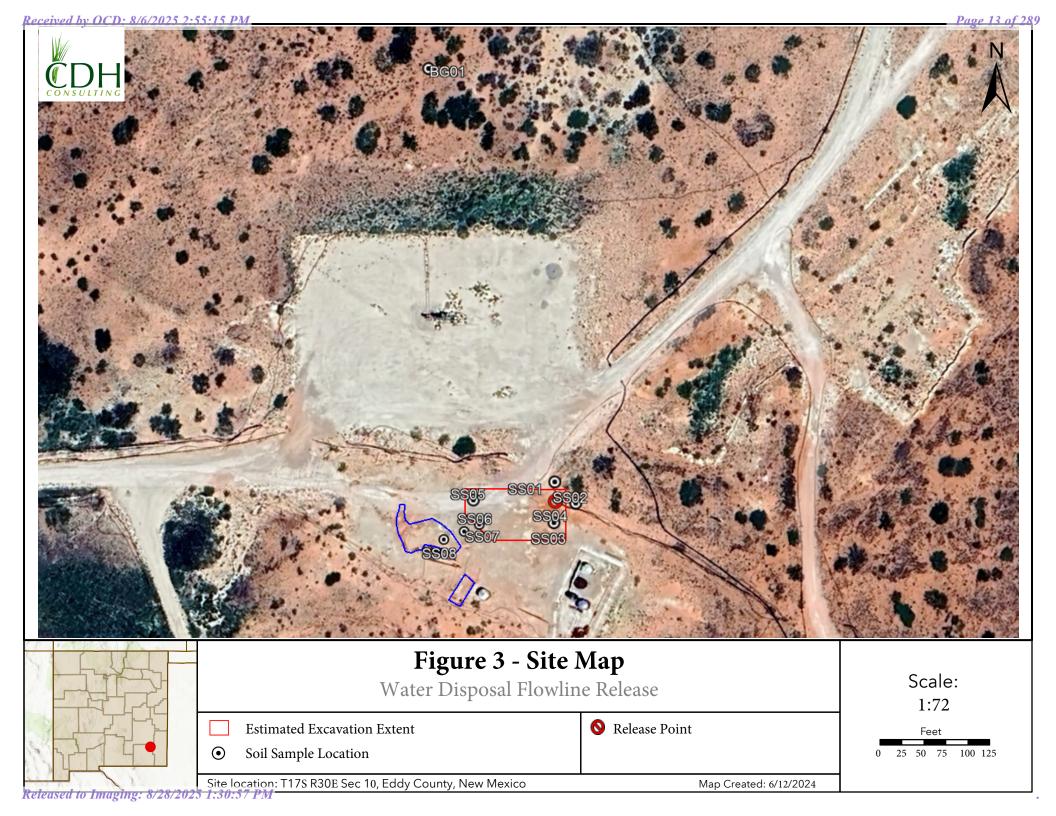
Attachment D – Laboratory Analytical Reports

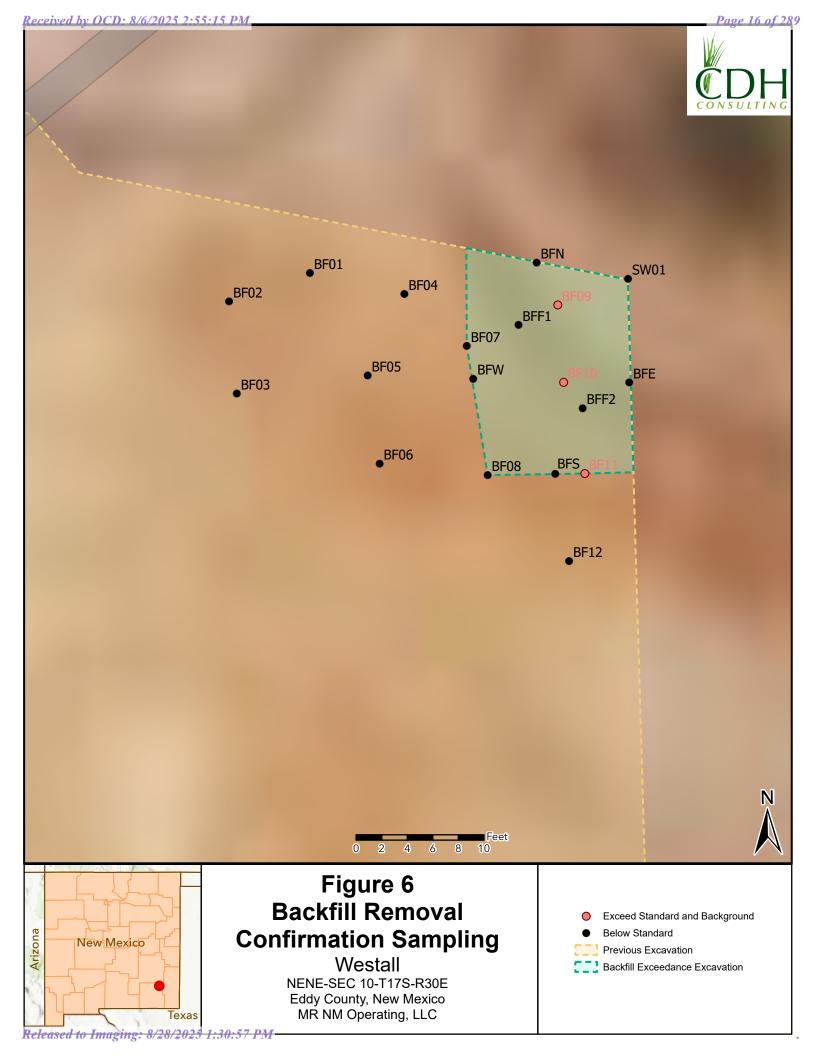
# **F**IGURES











# **TABLES**



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

Sample ID	Date Sampled	Depth (ft bgs)	Chlorides (mg/kg)	TPH <sup>(2)</sup> mg/kg	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
NMOCD Table I Soil	Standard (mg/kg) <sup>(1)</sup>	0-4	600	100	NA	NA	NA	50	10
	Standard (mg/kg) <sup>(2)</sup>	>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 OPPERATING, LLC

Sample ID	Date Sampled	Depth (ft bgs)	Chlorides (mg/kg)	TPH <sup>(3)</sup> mg/kg	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
NMOCD Table I Soi	Standard (mg/kg) <sup>(1)</sup>	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			1			
BF01	4/16/2025	3.25-3.75	121			1			
BF02	4/16/2025	0.25-0.75	129			1			
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 OPPERATING, LLC

Sample ID	Date Sampled	Depth (ft bgs)	Chlorides (mg/kg)	TPH <sup>(3)</sup> mg/kg	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
NMOCD Table I Soil	Standard (mg/kg) <sup>(1)</sup>	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	-					
BFN	7/16/2025	0-4	1,110	-					
BFE	7/16/2025	0-4	420	-					
BFS	7/16/2025	0-4	808	-					
BFW	7/16/2025	0-4	538	-					
BFTS	7/16/2025	*	48.5	<49.6	<49.6	<49.6	<49.6	<0.00398	<0.00199
BFC	7/16/2025	**	68.8	<49.6	<50.0	<50.0	<50.0	<0.00399	<0.00200
BFN	7/22/2025	0-4.5	399						
BFS	7/22/2025	0-4.5	405	-					
NMOCD Table I Soil	Standard (mg/kg) <sup>(2)</sup>	≥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
BFF 1	7/16/2025	4.5	7,930						
BFF 2	7/16/2025	4.5	603						

#### 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
- \*Sample was collected from stockpile onsite prior to backfilling. Sample used as excavation backfill from 0-2 feet bgs.
- \*\*Sample was collected from stockpile onsite prior to backfilling. Sample used as excavation backfill from 2-4.5 feet bgs.

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 a

**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



# **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 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 251403

#### **QUESTIONS**

Operator:	OGRID:
MR NM Operating LLC	330506
5950 Berkshire Lane	Action Number:
Dallas, TX 75225	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			

(-)	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.
s 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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# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 251403

QUESTIONS (con	الد مد دمد <b>ن</b> ا
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Operator:	OGRID:
MR NM Operating LLC	330506
5950 Berkshire Lane	Action Number:
Dallas, TX 75225	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			
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e	gas only) are to be submitted on the C-129 form.			

Initial Response					
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.					
The source of the release has been stopped	True				
The impacted area has been secured to protect human health and the environment	True				
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True				
All free liquids and recoverable materials have been removed and managed appropriately	True				
If all the actions described above have not been undertaken, explain why	Not answered.				

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

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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**

ACKNOWLEDGMENTS

Action 251403

#### **ACKNOWLEDGMENTS**

Operator:	OGRID:
MR NM Operating LLC	330506
5950 Berkshire Lane	Action Number:
Dallas, TX 75225	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.
V	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.
V	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.
V	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.
V	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.
V	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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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 251403

#### CONDITIONS

Operator:	OGRID:
MR NM Operating LLC	330506
5950 Berkshire Lane	Action Number:
Dallas, TX 75225	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
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2322554757
District RP	
Facility ID	
Application ID	

# **Release Notification**

### **Responsible Party**

Responsible P	arty MR N	M Operating LL	С		OGRID		
Contact Name	e Klint	Farrar			Contact Te	Telephone (469) 906-2004	
Contact email	klint@	gcypressnr.com			Incident #	# (assigned by OCD)	
Contact mailin	ng address	5950 Berkshire I Dallas, TX 7522					
			Location	n of R	elease So	Source	
Latitude 3	2.85551					-103.95222	
			(NAD 83 in a	lecimal de	grees to 5 decim	imal places)	
Site Name V	Westall Line	e Release			Site Type	Flowline	
Date Release I	Discovered	7/31/23			API# (if app	pplicable)	
Unit Letter	Section	Township	Range		Coun	inty	
A	10	17S	30E	Eddy			
Surface Owner.	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 Release				Volume Recovered (bbls)	
Produced V	Water	Volume Release	ed (bbls) 150 b	bls		Volume Recovered (bbls) 25 bbls	
	Is the concentration of dissolved chloride produced water >10,000 mg/l?			chloride	e in the	⊠ Yes □ No	
Condensate	e	Volume Release	ed (bbls)			Volume Recovered (bbls)	
☐ Natural Gas		Volume Released (Mcf)				Volume Recovered (Mcf)	
Other (describe) Volume/Weight Released (provide unit			de units)	)	Volume/Weight Recovered (provide units)		
Cause of Relea	se						
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.							

Received by OCD: 8/6/2025/2:55:155 PMM State of New Mexico Page 2 Oil Conservation Division

Page ageog 209
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Incident ID	NAPP2322554757
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon				
19.15.29.7(A) NMAC?	This incident is an unauthorized release of	a volume, excluding gases, of 25 barrels or more.			
⊠ Yes □ No					
Mike Bratcher at the OCI this form was emailed to	O (575-626-0857) was notified via phone on	om? When and by what means (phone, email, etc)? 8.1.23 by Katherine Kahn (CDH Consulting, LLC). Additionally, inez at the BLM (575-234-5972) was also notified of the spill by deral land.			
	Initial Re	esponse			
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury			
☐ The source of the rele	ease has been stopped.				
<u></u>	s been secured to protect human health and	the environment.			
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.			
All free liquids and re	ecoverable materials have been removed and	managed appropriately.			
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:			
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 infor	rmation given above is true and complete to the b	pest 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:Klint F	Farrar	Title:President			
Signature:		Date: 8/1/23			
email: klint@cypress	snr.com	Telephone: 469-906-2004			
OCD Only					
Received by: Shelly We	ells	Date: <u>8/15/2023</u>			

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1625 N. French Dr., Hobbs, NM 88240
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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 251425

#### **CONDITIONS**

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

#### CONDITIONS

Created By		Condition Date
scwells	None	8/15/2023

From: Wells, Shelly, EMNRD
To: Michael Wicker

Cc: <u>Bratcher, Michael, EMNRD</u>

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 15<sup>th</sup> 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 < <a href="mwicker@cdhconsult.com">mwicker@cdhconsult.com</a>>

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 < <a href="mwicker@cdhconsult.com">mwicker@cdhconsult.com</a>>

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 <a href="mailto:jlarsen@cdhconsult.com">jlarsen@cdhconsult.com</a>
Sent: Tuesday, February 18, 2025 11:36 AM
To: Michael Wicker <a href="mailto:mwicker@cdhconsult.com">mwicker@cdhconsult.com</a>

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 < <a href="mwicker@cdhconsult.com">mwicker@cdhconsult.com</a> 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).

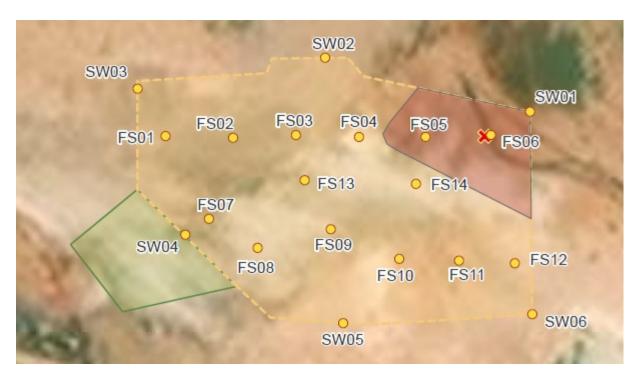
The excavation (not including the area the OCD and CDH agreed no samples would be collected from) is 5,532.02 square feet. 5,532.02 / 400 square feet = 13.83 confirmation soil samples. 14 confirmation soil samples were collected.

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 an 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 <u>reduce</u> <u>analytes to chloride only</u> 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:
  - o 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

Lab Sample ID: 890-7712

Matrix: Sol

Date Collected: 02/22/25 14:28 Date Received: 02/24/25 15:30

Client Sample ID: BACKFILL

Sam						
Sam	pic	De	Jul.	0.5	- 2	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil
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
4-Bromofiuorobenzene (Surr)	102	-7	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 BTE	X Calculat	ion						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dill
Total BTEX	< 0.00399	U	0.00399		mg/Kg	3.000	late and the second	02/25/25 14:20	
Analyte Total TPH	<50.0	Qualifier U	50.0	MDL	mg/Kg	D	Prepared	Analyzed 02/25/25 11:40	Dill
Marthard CHIOAC COAFD NIMED	in al Danie	0	(DDOL (CC)						
Method: SW846 8015B NM - D Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dill
Gasoline Range Organics (GRO)-C6-C10	<50.0		50.0		mg/Kg		02/24/25 17:22	02/25/25 11:40	
		U			mg/Kg		02/24/25 17:22		
Diesel Range Organics (Over	<50.0		50.0		mg/mg		0224125 11.22	02/25/25 11:40	
	<50.0 <50.0		50.0		mg/Kg			02/25/25 11:40	
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C38) Surrogate	<50.0 %Recovery	U Qualifier	50.0				02/24/25 17:22 Prepared	02/25/25 11:40 Analyzed	Dil
Diesel Range Organics (Over C10-C28)	<50.0 %Recovery	U	50.0				02/24/25 17:22	02/25/25 11:40	Dil
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C38) Surrogate	<50.0 %Recovery	U Qualifier	50.0				02/24/25 17:22 Prepared 02/24/25 17:22	02/25/25 11:40 Analyzed	Dil
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C38) Surrogate 1-Chlorocctane	<50.0  **Recovery 133 105  on Chromat	Qualifier S1+	50.0 <u>Limits</u> 70 - 130 70 - 130	MDL	mg/Kg	D	02/24/25 17:22 Prepared 02/24/25 17:22	02/25/25 11:40 <u>Analyzed</u> 02/25/25 11:40	Dil

Eurofins Carlsba

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2/26/202

#### 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:
  - o 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).

lient: CDH Consulting		Clier	nt Sample R	esults				Job ID:
roject/Site: WESTALL LINE RELEA	SE							SDG: L
lient Sample ID: TOPSOIL							Lab Sar	nple ID: 8
ate Collected: 03/04/25 09:32								N
ate Received: 03/05/25 13:40								
ample Depth: 3"-9"								
Call San And State Control of the Co	5 L 30 - 72 J J	F 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	· Ser					
Method: SW846 8021B - Volatile C	rganic Comp	ounds (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
Ethylbenzene	<0.00200	UF1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12
Toluene	<0.00200	UF1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12
Xylenes, Total	<0.00399	UF1	0.00399		mg/Kg		03/05/25 18:00	03/06/25 12
m-Xylene & p-Xylene	<0.00399	UF1	0.00399		mg/Kg		03/05/25 18:00	03/06/25 12
o-Xylene	<0.00200		0.00200		mg/Kg		03/05/25 18:00	03/06/25 12
o Afficine	~0.00200	UFI	0.00200		myrky		03/03/23 10.00	03/00/23 12
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyze
4-Bromofivorobenzene (Surr)	102	- Quantitor	70 - 130				03/05/25 18:00	03/05/25 12
1,4-Diffuorobenzene (Surr)	91		70 - 130				03/05/25 18:00	03/05/25 12
1, Tomadrobenzene (Sun)	91		70.100				03/03/23 70.00	Ourourzo 12
Method: TAL SOP Total BTEX - To	tal DTEV Cal	ulation						
Method: IAL SOP lotal BIEX - To Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Anglyzo
Total BTEX	<0.00399		0.00399	MUL			riopaiou	03/06/25 12
IUIAI D I EX	<0.00399	U	0.00399		mg/Kg			U3/U6/25 12
		(DDO)	(0.01					
Method: SW846 8015 NM - Diesel				MEN	tt-ti		Description	Anahma
Analyte		Qualifler	RL	MDL		D	Prepared	Analyze
Total TPH	<50.1	U	50.1		mg/Kg			03/06/25 02
Method: SW846 8015B NM - Diese				1999	203.0	120	927 929	60.000
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyze
Gasoline Range Organics	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02
C10-C28)	25.00	199	20.538		9502		V2012000000000	243454
Oli Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02
			Limba					
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyze
1-Chlorooctane	97		70 - 130				03/05/25 20:25	03/06/25 0
o-Terphenyl	89		70 _ 130				03/05/25 20:25	03/06/25 0
Method: EPA 300.0 - Anions, Ion C		-						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyze
Chloride	127		10.0		mg/Kg			03/06/25 17
E							I-LC-	I- ID-
lient Sample ID: BACKFILL							Lab Sar	nple ID:
ate Collected: 03/04/25 09:48								
ate Received: 03/05/25 13:40								
ample Depth: 2.5'-3'								
			/AC					
Method: SW846 8021B - Volatile O	rganic Comp	ounds (GC	(1)					
Analyte	Result	Qualifler	RL	MDL	Unit	D	Prepared	Analyze
Benzene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12
Toluene	<0.00202	U	0.00202		mg/Kg		03/05/25 18:00	03/06/25 12
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/05/25 18:00	03/06/25 12
n-Xylene & p-Xylene	<0.00404		0.00404		mg/Kg		03/05/25 18:00	03/06/25 12
	<0.00202		0.00202				03/05/25 18:00	03/06/25 12
o-Xylene	*U.UU2U2	0	0.00202		mg/Kg		USING/25 16.00	03/00/25 12
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyze
		Qualifier						
4-Bromofluorobenzene (Surr)	106		70 _ 130				03/05/25 18:00	03/06/25 1
								Euro
								Luio

### Client Sample Results

Client: CDH Consulting
Project/Site: WESTALL LINE RELEASE
SDG: LO

Client Sample ID: BACKFILL

Lab Sample ID: 890

Date Collected: 03/04/25 09:48 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-Diffuorobenzene (Surr)
 89
 70 - 130
 03/05/25 18:00
 03/05/25 18:00
 03/05/25 18:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed

 Total BTEX
 <0.00404</td>
 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</td>
 U
 50.5
 mg/kg
 03/06/25 02:01

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

MDL Unit Result Qualifler RL Prepared Analyzed <50.5 U Gasoline Range Organics 50.5 03/05/25 20:27 03/06/25 02:01 mg/Kg (GRO)-C6-C10 03/05/25 20:27 03/06/25 02:01 <50.5 U 50.5 mg/Kg Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-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

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#### 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 <u>reduced to chloride only</u> 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 < <a href="mailto:shelly.wells@emnrd.nm.gov">shelly.Wells@emnrd.nm.gov</a>; Bratcher, Michael, EMNRD < <a href="mailto:mike.bratcher@emnrd.nm.gov">mike.bratcher@emnrd.nm.gov</a>>

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 < <a href="mailto:dgirtin@cdhconsult.com">dgirtin@cdhconsult.com</a>>
Sent: Wednesday, April 9, 2025 1:41 PM

To: Wells, Shelly, EMNRD < <a href="mailto:Shelly.Wells@emnrd.nm.gov">Shelly.Wells@emnrd.nm.gov</a>>

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.

	ASE							SDG: LOCG	
Client Sample ID: TOPSOIL							Lab Sar	nple ID: 890-	7773-1
ate Collected: 03/04/25 09:32							Lub out		x: Solid
ate Received: 03/05/25 13:40								maur	x. Soliu
Sample Depth: 3"-9"									
and which the land of the same of		A C. LEWISCHER							
Method: SW846 8021B - Volatile (			Di	MOI	11-16		Description	Anahanad	DII Fee
Analyte Benzene	<0.00200	Qualifier U F1	0.00200	MDL	Unit	D	03/05/25 18:00	03/06/25 12:02	DII Fac
Ethylbenzene	<0.00200		0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
Toluene	<0.00200	UF1	0.00200		mg/Kg mg/Kg		03/05/25 18:00	03/06/25 12:02	,
Xylenes, Total	<0.00200 <0.00399		0.00200				03/05/25 18:00	03/06/25 12:02	
	<0.00399	7.00	0.00399		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
m-Xylene & p-Xylene					mg/Kg				
o-Xylene	<0.00200	UF1	0.00200		mg/Kg		03/05/25 18:00	03/06/25 12:02	1
Surrogate	%Recovery	Qualifler	Limits				Prepared	Analyzed	DII Fac
4-Bromofluorobenzene (Surr)	102	-	70 - 130				03/05/25 18:00	03/06/25 12:02	1
1,4-Diffuorobenzene (Surr)	91		70 _ 130				03/05/25 18:00	03/06/25 12:02	1
Method: TAL SOP Total BTEX - To									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/25 12:02	1
Markada CINIDAC COAS NINA CO	I Denny Com	: (DDO) (O)							
Method: SW846 8015 NM - Diesel Analyte		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	DII Fac
Total TPH	<50.1		50.1	MIDL	1		Fiehalen	03/06/25 02:01	Dilliac
Iolai IPH	~5u.1	· ·	30.1		mg/Kg			03/00/25 02.01	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO) (C	SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Gasoline Range Organics	<b>&lt;50.1</b>	-	50.1	-	mg/Kg	— <u>,                                    </u>	03/05/25 20:25	03/06/25 02:01	1
(GRO)-C6-C10					, ,				
Diesel Range Organics (Over	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02:01	1
C10-C28)									
Oll Range Organise (Oues One one)	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02:01	1
Oll Range Organics (Over C28-C36)									
	***	Out the same							D# 5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	
Surrogate 1-Chlorooctane	97	Qualifier	70 - 130				03/05/25 20:25	03/06/25 02:01	1
Surrogate		Qualifier							1
Surrogate 1-Chlorooctane o-Terphenyl	97 89		70 - 130				03/05/25 20:25	03/06/25 02:01	1
Surrogate 1-Chlorooctane	97 89 Chromatograp		70 - 130	MDL	Unit	D	03/05/25 20:25	03/06/25 02:01	1
Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	97 89 Chromatograp	ohy - Soluble	70 - 130 70 - 130	MDL	Unit mg/Kg	<u>D</u>	03/05/25 20:25 03/05/25 20:25	03/06/25 02:01 03/06/25 02:01	1
Surrogate 1-Chloroctane o-Terphenyl  Method: EPA 300.0 - Anions, Ion Analyte Chloride	07 89 Chromatograp Result 127	ohy - Soluble	70 - 130 70 - 130 RL	MDL	-	<u>D</u>	03/05/25 20:25 03/05/25 20:25 Prepared	03/06/25 02:01 03/06/25 02:01 Analyzed 03/06/25 17:19	DII Fac
Surrogate 1-Chloroctane o-Terphenyl  Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL	07 89 Chromatograp Result 127	ohy - Soluble	70 - 130 70 - 130 RL	MDL	-	<u>D</u>	03/05/25 20:25 03/05/25 20:25 Prepared	03/06/25 02:01 03/06/25 02:01 Analyzed 03/06/25 17:19	DII Fac
Surrogate 1-Chlorooctane o-Terphenyl  Method: EPA 300.0 - Anions, Ion Analyte Chloride	07 89 Chromatograp Result 127	ohy - Soluble	70 - 130 70 - 130 RL	MDL	-	<u>D</u>	03/05/25 20:25 03/05/25 20:25 Prepared	03/06/25 02:01 03/06/25 02:01 Analyzed 03/06/25 17:19	DII Fac
Surrogate 1-Chloroctane o-Terphenyl  Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL	07 89 Chromatograp Result 127	ohy - Soluble	70 - 130 70 - 130 RL	MDL	-	<u>D</u>	03/05/25 20:25 03/05/25 20:25 Prepared	03/06/25 02:01 03/06/25 02:01 Analyzed 03/06/25 17:19	DII Fac
Surrogate 1-Chloroctane 0-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL Date Collected: 03/04/25 09:48	07 89 Chromatograp Result 127	ohy - Soluble	70 - 130 70 - 130 RL	MDL	-	<u>D</u>	03/05/25 20:25 03/05/25 20:25 Prepared	03/06/25 02:01 03/06/25 02:01 Analyzed 03/06/25 17:19	DII Fac
Surrogate 1-Chloroctane 0-Terphenyl  Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL Date Collected: 03/04/25 09:48 Date Received: 03/05/25 13:40 Dample Depth: 2.5'-3'	07 89 Chromatograp Result 127	ohy - Soluble Qualifier	70 - 130 70 - 130 RL	MDL	-	<u>D</u>	03/05/25 20:25 03/05/25 20:25 Prepared	03/06/25 02:01 03/06/25 02:01 Analyzed 03/06/25 17:19	DII Fac
Surrogate 1-Chloroctane 0-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL late Collected: 03/04/25 09:48 late Received: 03/05/25 13:40	Organic Comp	ohy - Soluble Qualifier	70 - 130 70 - 130 RL	MDL	mg/Kg	<u>D</u>	03/05/25 20:25 03/05/25 20:25 Prepared	03/06/25 02:01 03/06/25 02:01 Analyzed 03/06/25 17:19	DII Fac
Surrogate 1-Chloroctane 0-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL Date Collected: 03/04/25 09:48 Date Received: 03/05/25 13:40 Dample Depth: 2.5'-3' Method: SW846 8021B - Volatile (	Organic Comp	ohy - Soluble Qualifier ounds (GC) Qualifier	70 - 130 70 - 130 RL 10.0		mg/Kg		03/05/25 20:25 03/05/25 20:25 Prepared Lab San	03/06/25 02:01 03/06/25 02:01 Analyzed 03/06/25 17:19 nple ID: 890- Matri	DII Fac
Surrogate 1-Chloroctane 0-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL late Collected: 03/04/25 09:48 late Received: 03/05/25 13:40 lample Depth: 2.5'-3' Method: SW846 8021B - Volatile (Analyte Benzene	Organic Comp	ohy - Soluble Qualifier ounds (GC) Qualifier	70 - 130 70 - 130 RL 10.0		mg/Kg		03/05/25 20:25 03/05/25 20:25 Prepared  Lab San	03/06/25 02:01 03/06/25 02:01 Analyzed 03/06/25 17:19 nple ID: 890- Matri	DII Fac
Surrogate 1-Chloroctane 0-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL late Collected: 03/04/25 09:48 late Received: 03/05/25 13:40 lample Depth: 2.5'-3' Method: SW846 8021B - Volatile ( Analyte Benzene Ethylbenzene	Organic Comp	ounds (GC) Qualifier  U	70 - 130 70 - 130 RL 10.0		Unit mg/Kg mg/Kg		03/05/25 20:25 03/05/25 20:25 Prepared Lab San Prepared 03/05/25 18:00 03/05/25 18:00	03/06/25 02:01 03/06/25 02:01 Analyzed 03/06/25 17:19 nple ID: 890- Matri	DII Fac
Surrogate 1-Chloroctane 0-Terphenyl  Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL Date Collected: 03/04/25 09:48 Date Received: 03/05/25 13:40 Date Receive	07 89 Chromatograp Result 127  Organic Comp Result  <0.00202 <0.00202 <0.00202	ounds (GC) Qualifier  U U	70 - 130 70 - 130 RL 10.0 RL 0.00202 0.00202 0.00202		unit mg/Kg mg/Kg mg/Kg		03/05/25 20:25 03/05/25 20:25 Prepared  Lab San  Prepared  03/05/25 18:00 03/05/25 18:00 03/05/25 18:00	03/06/25 02:01 03/06/25 02:01 Analyzed 03/06/25 17:19 nple ID: 890- Matri Analyzed 03/06/25 12:23 03/06/25 12:23 03/06/25 12:23	DII Fac
Surrogate 1-Chloroctane 0-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL late Collected: 03/04/25 09:48 late Received: 03/05/25 13:40 lample Depth: 2.5'-3' Method: SW846 8021B - Volatile ( Analyte Benzene Ethylbenzene Toluene Xylenes, Total	07 89 Chromatograp Result 127  Organic Comp Result <0.00202 <0.00202 <0.00202 <0.00404	ounds (GC) Qualifier  U U U	RL 10.0 RL 0.00202 0.00202 0.00404		Unit mg/Kg mg/Kg mg/Kg mg/Kg		03/05/25 20:25 03/05/25 20:25  Prepared  Lab Sar  Prepared 03/05/25 18:00 03/05/25 18:00 03/05/25 18:00 03/05/25 18:00	Analyzed  O3/06/25 17:19  Inple ID: 890- Matri  Analyzed  O3/06/25 12:23  O3/06/25 12:23  O3/06/25 12:23	DII Fac
Surrogate 1-Chloroctane 0-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL late Collected: 03/04/25 09:48 late Received: 03/05/25 13:40 lample Depth: 2.5'-3' Method: SW846 8021B - Volatile ( Analyte Benzene Ethylbenzene Toluene Xylenes, Total m-Xylene & p-Xylene	07 89 Chromatograp Result 127  Organic Comp Result <0.00202 <0.00202 <0.00204 <0.00404 <0.00404	ounds (GC) Qualifier  U U U	RL 10.0 PL 0.00202 0.00202 0.00404 0.00404		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		03/05/25 20:25 03/05/25 20:25 Prepared  Lab Sar  Prepared 03/05/25 18:00 03/05/25 18:00 03/05/25 18:00 03/05/25 18:00 03/05/25 18:00	Analyzed  03/06/25 17:19  nple ID: 890- Matri  Analyzed  03/06/25 12:23  03/06/25 12:23  03/06/25 12:23  03/06/25 12:23  03/06/25 12:23	DII Fac
Surrogate 1-Chloroctane 0-Terphenyl  Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL ate Collected: 03/04/25 09:48 ate Received: 03/05/25 13:40 ample Depth: 2.5'-3'  Method: SW846 8021B - Volatile ( Analyte Benzene Ethylbenzene Toluene Xylenes, Total m-Xylene & p-Xylene	07 89 Chromatograp Result 127  Organic Comp Result <0.00202 <0.00202 <0.00202 <0.00404	ounds (GC) Qualifier  U U U	RL 10.0 RL 0.00202 0.00202 0.00404		Unit mg/Kg mg/Kg mg/Kg mg/Kg		03/05/25 20:25 03/05/25 20:25  Prepared  Lab Sar  Prepared 03/05/25 18:00 03/05/25 18:00 03/05/25 18:00 03/05/25 18:00	Analyzed  O3/06/25 17:19  Inple ID: 890- Matri  Analyzed  O3/06/25 12:23  O3/06/25 12:23  O3/06/25 12:23	DII Fac
Surrogate 1-Chloroctane 0-Terphenyl  Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BACKFILL Date Collected: 03/04/25 09:48 Date Received: 03/05/25 13:40 Dample Depth: 2.5'-3' Method: SW846 8021B - Volatile (Analyte) Benzene Ethylbenzene	07 89 Chromatograp Result 127  Organic Comp Result <0.00202 <0.00202 <0.00204 <0.00404 <0.00404	ounds (GC) Qualifier  U U U U	RL 10.0 PL 0.00202 0.00202 0.00404 0.00404		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		03/05/25 20:25 03/05/25 20:25 Prepared  Lab Sar  Prepared 03/05/25 18:00 03/05/25 18:00 03/05/25 18:00 03/05/25 18:00 03/05/25 18:00	Analyzed  03/06/25 17:19  nple ID: 890- Matri  Analyzed  03/06/25 12:23  03/06/25 12:23  03/06/25 12:23  03/06/25 12:23  03/06/25 12:23	DII Fac

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

Result Qualifier

		Clien	t Sample R	esults					
Client: CDH Consulting								Job ID: 890	-7773-1
Project/Site: WESTALL LINE RE		SDG: LOCO HILLS							
Client Sample ID: BACKF	ILL						Lab San	nple ID: 890-	7773-2
Date Collected: 03/04/25 09:48								Matri	x: Solid
Date Received: 03/05/25 13:40									
Sample Depth: 2.5'-3'									
	tile Organic Comp		) (Continued)				Prepared	Analyzed	Dil Fac
Sample Depth: 2.5'-3' Method: SW846 8021B - Vola			Answers .			3	Prepared 03/05/25 18:00	Analyzed 03/06/25 12:23	DII Fac
Sample Depth: 2.5'-3'  Method: SW846 8021B - Vola Surrogate 1,4-Diffuorobenzene (Surr)	%Recovery 89	Qualifier	Limits						Dil Fac
Method: SW846 8021B - Vola Surrogate 1,4-Diffuorobenzene (Surr) Method: TAL SOP Total BTE)	%Recovery 89 C - Total BTEX Calc	Qualifier	Limits 70 - 130				03/05/25 18:00	03/06/25 12:23	1
Sample Depth: 2.5'-3'  Method: SW846 8021B - Vola Surrogate 1,4-Diffuorobenzene (Surr)	%Recovery 89 C - Total BTEX Calc	Qualifier culation Qualifier	Limits	MDL	Unit	<u>D</u>			Dil Fac

Iotal IPH	<5U.5	U	50.5		mg/kg			03/06/25 02:01	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO	) (GC)						
Analyte	Result	Qualifler	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Gasoline Range Organics	<50.5	U	50.5		mg/Kg		03/05/25 20:27	03/06/25 02:01	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.5	U	50.5		mg/Kg		03/05/25 20:27	03/06/25 02:01	1
C10-C28)									
Oll 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	8	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

١	Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
	Analyte	Result	Qualifler	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Į	Chloride	160	(d)	10.0		mg/Kg	0.001076		03/06/25 17:26	1

Eurofins Carlsbad

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## Client Sample Results

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Lab Sample ID: 890-7712-1

Matrix: Solid

Date Collected: 02/22/25 14:28 Date Received: 02/24/25 15:30 Sample Depth: 0.5 - 2'

Client Sample ID: BACKFILL

Job ID: 890-7712-1

SDG: LOCO HILLS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	100	mg/Kg	8000	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	1111111111	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 BTE	X Calculat	tion						
	- "		-	MEDI	Unit	-		A 1	Dil Fac
Analyte		Qualifier	RL	MUL		D	Prepared	Analyzed	DII Fac
Analyte Total BTEX	<0.00399		0.00399	MUL	mg/Kg		Prepared	02/25/25 14:20	1
	<0.00399	U	0.00399	MUL			Prepared		1
Total BTEX	<0.00399 esel Range (	U	0.00399			_ <u>D</u>	Prepared		1 Dil Fac
Total BTEX : Method: SW846 8015 NM - Di	<0.00399 esel Range (	Organics ( Qualifier	0.00399 DRO) (GC)		mg/Kg			02/25/25 14:20	1
Total BTEX : : Method: SW846 8015 NM - Di Analyte	<0.00399 esel Range ( Result <50.0	Organics ( Qualifier U	0.00399 DRO) (GC) RL 50.0		mg/Kg Unit			02/25/25 14:20 Analyzed	1 Dil Fac
Total BTEX  Method: SW846 8015 NM - Di Analyte Total TPH	<0.00399 esel Range ( Result <50.0 Diesel Range	Organics ( Qualifier U	0.00399 DRO) (GC) RL 50.0	MDL	mg/Kg Unit			02/25/25 14:20 Analyzed	1 Dil Fac
Total BTEX  Method: SW846 8015 NM - Di Analyte Total TPH  Method: SW846 8015B NM - E	<0.00399 esel Range ( Result <50.0 Diesel Range	Organics ( Qualifier U Organics Qualifier	0.00399 DRO) (GC) RL 50.0 (DRO) (GC)	MDL	mg/Kg Unit mg/Kg	_ <u>D</u>	Prepared	02/25/25 14:20 Analyzed 02/25/25 11:40	Dil Fac
Total BTEX : Method: SW846 8015 NM - Di Analyte Total TPH : Method: SW846 8015B NM - E Analyte Gasoline Range Organics	<0.00399 esel Range ( Result <50.0 Diesel Range Result	Organics ( Qualifier U Organics Qualifier U	0.00399  DRO) (GC) RL 50.0  (DRO) (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	_ <u>D</u>	Prepared  Prepared 02/24/25 17:22	02/25/25 14:20  Analyzed 02/25/25 11:40  Analyzed	Dil Fac
Total BTEX  Method: SW846 8015 NM - Di Analyte  Total TPH  Method: SW846 8015B NM - E Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00399 esel Range ( Result  <50.0 Diesel Range  Result  <50.0	Organics ( Qualifier U Organics Qualifier U	0.00399  DRO) (GC) RL 50.0  (DRO) (GC) RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	_ <u>D</u>	Prepared  Prepared 02/24/25 17:22	02/25/25 14:20  Analyzed 02/25/25 11:40  Analyzed 02/25/25 11:40	Dil Fac
Total BTEX  Method: SW846 8015 NM - Di Analyte  Total TPH  Method: SW846 8015B NM - E Analyte  Gasoline Range Organics (GRO)-C8-C10	<0.00399 esel Range ( Result  <50.0 Diesel Range  Result  <50.0	Organics ( Qualifier U Organics Qualifier U Organics Qualifier U	0.00399  DRO) (GC) RL 50.0  (DRO) (GC) RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	_ <u>D</u>	Prepared  Prepared 02/24/25 17:22 02/24/25 17:22	02/25/25 14:20  Analyzed 02/25/25 11:40  Analyzed 02/25/25 11:40	Dil Fac
Total BTEX  Method: SW846 8015 NM - Di Analyte  Total TPH  Method: SW846 8015B NM - I Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00399 esel Range (	Organics ( Qualifier U  Organics Qualifier U  U  U	0.00399  DRO) (GC) RL 50.0 6 (DRO) (GC) RL 50.0 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	_ <u>D</u>	Prepared  Prepared 02/24/25 17:22 02/24/25 17:22	02/25/25 14:20  Analyzed 02/25/25 11:40  Analyzed 02/25/25 11:40  02/25/25 11:40	Dil Fac
Total BTEX  Method: SW846 8015 NM - Di Analyte  Total TPH  Method: SW846 8015B NM - I Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<0.00399 esel Range Result <50.0 Diesel Range Result <50.0 <50.0 <50.0 %Recovery	Organics ( Qualifier U  Organics Qualifier U  U  U	0.00399  DRO) (GC) RL 50.0  (DRO) (GC) RL 50.0  50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	_ <u>D</u>	Prepared  Prepared 02/24/25 17:22 02/24/25 17:22 02/24/25 17:22	02/25/25 14:20  Analyzed 02/25/25 11:40  Analyzed 02/25/25 11:40 02/25/25 11:40 02/25/25 11:40 Analyzed	Dil Fac  Dil Fac  1  Dil Fac  1

RL

49.8

MDL Unit

mg/Kg

Prepared

Analyzed

02/25/25 22:00

Result Qualifier

1200

**Eurofins Carlsbad** 

2/26/2025

Analyte

Chloride

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 < <a href="mwicker@cdhconsult.com">mwicker@cdhconsult.com</a>>

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

#### Michael Wicker

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

**Sent:** Thursday, April 24, 2025 1:16 PM

To: Michael Wicker Cc: Devin Girtin

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

Good afternoon Michael,

The extension request for NAPP2322554757 WATER DISPOSAL FLOWLINE RELEASE is approved. This will be the FINAL extension for this release. The new due date to submit your updated remediation plan or closure report to the OCD is May 26, 2025. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

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: Thursday, April 24, 2025 11:27 AM

To: Wells, Shelly, EMNRD <Shelly.Wells@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,

CDH on behalf of MR NM Operating LLC, is requesting an extension to the Remediation Closure Report due date to be 5/24/2025 to ensure reclamation meets 19.15.29.13 NMAC.

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 < <a href="mwicker@cdhconsult.com">mwicker@cdhconsult.com</a>>

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

To: Wells, Shelly, EMNRD < <a href="mailto:Shelly.Wells@emnrd.nm.gov">Shelly.Wells@emnrd.nm.gov</a>; Bratcher, Michael, EMNRD < <a href="mailto:mike.bratcher@emnrd.nm.gov">mike.bratcher@emnrd.nm.gov</a>>

Cc: Devin Girtin < <a href="mailto:dgirtin@cdhconsult.com">dgirtin@cdhconsult.com</a>>

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 < <a href="mailto:Shelly.Wells@emnrd.nm.gov">Shelly.Wells@emnrd.nm.gov</a>>

**Sent:** Thursday, April 10, 2025 9:27 AM **To:** Devin Girtin < <a href="mailto:dgirtin@cdhconsult.com">dgirtin@cdhconsult.com</a> **Cc:** Michael Wicker <a href="mailto:dwww.chen.gom">dww.chen.gom</a>

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 < <a href="mailto:dgirtin@cdhconsult.com">dgirtin@cdhconsult.com</a>>
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 <a href="mailto:dgirtin@cdhconsult.com">dgirtin@cdhconsult.com</a>. <a href="mailto:Learn why this is important">Learn why this is important</a>

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 RELEASE

Job ID: 890-7773-1

SDG: LOCO HILLS

6

Client Sample ID: TOPSOIL Date Collected: 03/04/25 09:32

Lab Sample ID: 890-7773-1 Matrix: Solid

03/05/25 18:00 03/06/25 12:02

Date Received: 03/05/25 13:40 Sample Depth: 3"-9"

1,4-Diffuorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII 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	UF1	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	UF1	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

	0
Fac	
1	
1	

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier

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

MDL Unit DII Fac RI Prepared Analyzed Total BTEX <0.00399 U 03/06/25 12:02 0.00399

70.130



ı	Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (GC)							
ı	Analyte	Result	Qualifler	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
l	Total TPH	<50.1	U	50.1		mg/Kg		***	03/06/25 02:01	1

LC

Analyte	Result	Qualifler	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg	3/2 (2)	03/05/25 20:25	03/06/25 02:01	1
Diesel Range Organics (Over	<50.1	U	50.1		mg/Kg		03/05/25 20:25	03/06/25 02:01	1
C10-C28) Oli 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	DII Fac

	Surrogate	76 Recovery	Qualitier	Linnus		Prepared	Anaryzeu	DIIFac
	1-Chlorooctane	97	39	70 - 130	· ·	03/05/25 20:25	03/05/25 02:01	1
	o-Terphenyl	89		70 _ 130	(	03/05/25 20:25	03/06/25 02:01	1
1								

Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Soluble							
Analyte	Result	Qualifler	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Chloride	127		10.0	7.	mg/Kg			03/06/25 17:19	1

Lab Sample ID: 890-7773-2

Date Collected: 03/04/25 09:48 Date Received: 03/05/25 13:40

Matrix: Solid

Sample Depth: 2.5'-3'

Client Sample ID: BACKFILL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII 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	DII Fac
4-Bromofluorobenzene (Surr)	106		70.130				03/05/25 18:00	03/06/25 12:23	1

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3/6/2025

			_	
CILA	nt C:	mni	e Res	Hilte
OHE	111 36		- 1/-:	ulto

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

Lab Sample ID: 890-7773-2 Client Sample ID: BACKFILL Date Collected: 03/04/25 09:48 Matrix: Solid

Date Received: 03/05/25 13:40 Sample Depth: 2.5'-3'

(GRO)-C6-C10

Method: SW846 8021B - Vola	tile Organic Compound	ds (GC) (Continued)			
Surrogate	%Recovery Qual	lifler Limits	Prepared	Analyzed	DII Fac
1,4-Diffuorobenzene (Surr)	89	70 - 130	03/05/25 18:00	03/06/25 12:23	1

Method: TAL SOP Total BTEX - Tot	al BTEX Cale	culation							
Analyte	Result	Qualifler	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg	1000	The state of the s	03/06/25 12:23	1

Analyte	Result	Qualifler	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total TPH	<50.5	U	50.5		mg/Kg		A	03/06/25 02:01	1
Method: SW846 8015B NM - D	iesel Range Orga	nics (DRO) (G	iC)						
method. Office of top itm - b									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac

Diesel Range Organics (Over	<50.5	U	50.5	mg/Kg	03/05/25 20:27	03/06/25 02:01	1
C10-C28) Oll Range Organics (Over C28-C36)	<b>&lt;50.5</b>	U	50.5	mg/Kg	03/05/25 20:27	03/06/25 02:01	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	DII Fac
1-Chlorooctane	77		70 - 130		03/05/25 20:27	03/06/25 02:01	1
o-Temberyl	81		70 - 130		03/05/25 20:27	03/06/25 02:01	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifler	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Chloride	160	0	10.0		mg/Kg	0.000		03/06/25 17:26	1

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## Client Sample Results

0.00200

0.00200

0.00200

0.00399

0.00399

0.00200

Limits

70 - 130

70\_130

RL

RL

50.0

50.0

50.0

RL

49.8

Limits

70 - 130

70\_130

0.00399

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

MDL Unit

MDL Unit

MDL

MDL Unit

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

<0.00399 U

<0.00200 U

102

92

<0.00399 U

Result Qualifier

Result Qualifier

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

<50.0 U

%Recovery Qualifier

105

1200

133 S1+

Result Qualifier

%Recovery

Client Sample ID: BACKFILL Date Collected: 02/22/25 14:28

Date Received: 02/24/25 15:30 Sample Depth: 0.5 - 2'

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Analyte

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

Total TPH

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oil Range Organics (Over C28-C36)

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

Lab Sample ID: 890-7712-1 Matrix: Solid

Analyzed

02/25/25 14:20

02/25/25 14:20

02/25/25 14:20

02/25/25 14:20

Analyzed

Analyzed

02/25/25 14:20

Analyzed

02/25/25 11:40

Analyzed

02/25/25 11:40

02/25/25 11:38 02/25/25 14:20

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02/25/25 11:38 02/25/25 14:20

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5





























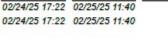












Analyzed	Dil
2/25/25 22:00	

Prepared Fac 0

Analyzed

5

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2/26/2025

Devin Girtin, PG, PMP

CDH Consulting, LLC

303-895-7556

dgirtin@CDHconsult.com



www.CDHconsult.com

From: <a href="mailto:oCDOnline@state.nm.us">OCDOnline@state.nm.us</a>>

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

To: Michael Wicker < <a href="mwicker@cdhconsult.com">mwicker@cdhconsult.com</a>>

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 SCARBOUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S 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	2S 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	2S 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	2S 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	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/6/2025	HW-729376	700-1670311		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	1/3/2025	HW-729377	700-1670436		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S 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	2S 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	2S 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	2S 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	2S 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	2S 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	2S 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	2S 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	2S 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	2S 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	2S 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	2S 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	2S 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	2S 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										12	NON-DRILLING
CRI	1/2/2025	HW-729054	700-1668839		MR NM Operating	CHANCE SCARBOROUGH CHANCE SCARBOROUGH		WATER CONSOLIDATION WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC 2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
					MR NM Operating						Contaminated Soil (RCRA Exempt)	yards		
CRI	1/2/2025	HW-729322 HW-730101	700-1668822	C294552	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	GOLD SPEED TRUCKING LLC 2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING NON-DRILLING
	12/31/2024		700-1668292		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE		Contaminated Soil (RCRA Exempt)	yards	12	
CRI	12/31/2024	HW-729343	700-1668290	C294552	MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S 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		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S 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	2S 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	2S 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	2S 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	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/30/2024	HW-729073	700-1667877		MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S 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	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/30/2024	HW-729681	700-1667792	C294110	MR NM Operating	CHANCE SCARBBORUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S 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	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
CRI	12/30/2024	HW-729666	700-1667724		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		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-729053			MR NM Operating	CHANCE SCARBOROUGH		WATER CONSOLIDATION	FLOW LINE RELEASE	2S TRUCKING LLC	Contaminated Soil (RCRA Exempt)	yards	12	NON-DRILLING
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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	HWW-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
					•				•				988	

# **A**TTACHMENT **C**

Photographic Logs



#### 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

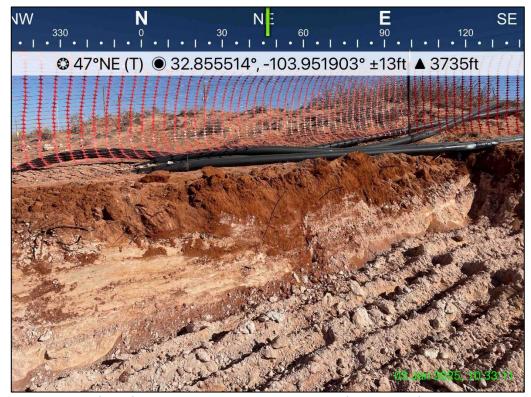


Photo 7: ~1 foot of topsoil observed in northeast corner of excavation, facing northeast

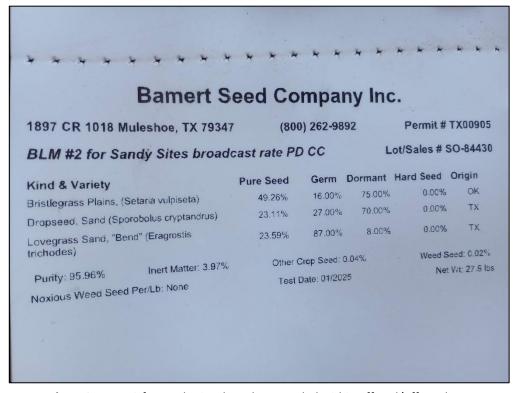


Photo 8: BLM #2 for sandy sites broadcast seeded within off-pad/off-road area



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

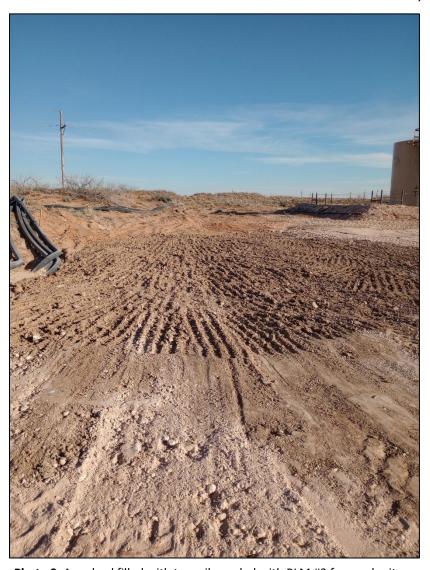


Photo 9: Area backfilled with topsoil, seeded with BLM #2 for sandy sites



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



# PHOTOGRAPHIC LOG MR NM Operating, LLC Water Disposal Flowline Release July 16 and 22, 2025



Photo 1: Excavation overview, facing northeast



Photo 2: Excavation overview, facing southeast



# PHOTOGRAPHIC LOG MR NM Operating, LLC Water Disposal Flowline Release July 16 and 22, 2025



Photo 3: Backfilling activities



Photo 4: Backfill progress



# PHOTOGRAPHIC LOG MR NM Operating, LLC Water Disposal Flowline Release July 16 and 22, 2025



Photo 5: Backfilled excavation, facing northeast



Photo 6: Backfilled excavation overview, facing southeast



# **ATTACHMENT D**

**Laboratory Analytical Reports** 



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Michael Wicker CDH Consulting 9446 Clermont St, Thornton, Colorado 80229

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# **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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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

Laborat

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

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# **Definitions/Glossary**

Client: CDH Consulting Job ID: 890-7509-1 Project/Site: WESTALL LINE RELEASE

SDG: LOCO HILLS, NM

# **Qualifiers**

# **GC VOA**

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

Ouglifier Description

# **GC Semi VOA** Ouglifier

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
Qualifier	Qualifier Description

U Indicates the analyte was analyzed for but not detected.

# Cloccary

LOQ

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)

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 **Practical Quantitation Limit PQL** 

**PRES** Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

# **Case Narrative**

Client: CDH Consulting

Job ID: 890-7509-1

Project: WESTALL LINE RELEASE

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** 

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# **Client Sample Results**

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7509-1

SDG: LOCO HILLS, NM

Lab Sample ID: 890-7509-1

Matrix: Solid

Date Collected: 12/20/24 15:09 Date Received: 12/20/24 16:37 Sample Depth: 0 - 4'

Client Sample ID: SW 04

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 - 1	Total BTEX Cald	ulation							
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
		(000)	<b>.</b>						
Method: SW846 8015 NM - Diese		, ,,	•	MDI	Unit	ь	Droparod	Analyzod	Dil Eac
Analyte	Result	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed 12/26/24 15:26	Dil Fac
		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/26/24 15:26	
Analyte Total TPH  . Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U	RL 50.0		mg/Kg	<u> </u>		12/26/24 15:26	1
Analyte Total TPH	Result <50.0  sel Range Orga Result	Qualifier U nics (DRO) Qualifier		MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH  . Method: SW846 8015B NM - Dies	Result <50.0  sel Range Orga Result	Qualifier U	RL 50.0		mg/Kg	<u> </u>		12/26/24 15:26	1
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result sel Range Orga Result 	Qualifier U nics (DRO) Qualifier	RL 50.0		mg/Kg	<u> </u>	Prepared	12/26/24 15:26  Analyzed	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result sel Range Orga Result 	Qualifier U  nics (DRO) Qualifier U *+ *1	RL		mg/Kg  Unit mg/Kg	<u> </u>	Prepared 12/26/24 12:00	12/26/24 15:26  Analyzed  12/26/24 15:26	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result sel Range Orga Result 	Qualifier U  nics (DRO) Qualifier U *+ *1 U *+ *1	RL		mg/Kg  Unit mg/Kg	<u> </u>	Prepared 12/26/24 12:00	12/26/24 15:26  Analyzed  12/26/24 15:26	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result Sel Range Orga Result <50.0 \$50.0 \$50.0	Qualifier U  nics (DRO) Qualifier U *+ *1 U *+ *1 U Qualifier	RL 50.0 (GC) RL 50.0 50.0		mg/Kg  Unit mg/Kg  mg/Kg	<u> </u>	Prepared 12/26/24 12:00 12/26/24 12:00	12/26/24 15:26  Analyzed  12/26/24 15:26  12/26/24 15:26	1 Dil Fac 1
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U  nics (DRO) Qualifier U *+ *1 U *+ *1	RL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg  Unit mg/Kg  mg/Kg	<u> </u>	Prepared 12/26/24 12:00 12/26/24 12:00 12/26/24 12:00	12/26/24 15:26  Analyzed 12/26/24 15:26 12/26/24 15:26 12/26/24 15:26	1 Dil Fac 1 1

RL

9.98

MDL Unit

mg/Kg

D

Prepared

Analyzed

12/26/24 12:10

Dil Fac

**Eurofins Carlsbad** 

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

99.2

# **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

ent Surrogate Recovery (Acceptance Limits)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7509-1	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

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

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

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

Matrix: Solid

**Matrix: Solid** 

Analysis Batch: 98774

Analysis Batch: 98774

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98772

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

MB MB

Surrogate	%Recovery 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

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 98772

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

LCS LCS

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

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 98774

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

Prep Type: Total/NA Prep Batch: 98772

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

LCSD LCSD

Surrogate	%Recovery	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

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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	

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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: 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

%Rec			MS MS	MS	Spike	Sample	Sample	
c Limits	D %Rec	er Unit	Result Qualifier	Result	Added	Qualifier	Result	Analyte
70 - 130	94	mg/Kg	.09379	0.09379	0.0996	U	<0.00199	Toluene
3 70 - 130	93	mg/Kg	0.1856	0.1856	0.199	U	<0.00398	m-Xylene & p-Xylene
5 70 - 130	95	mg/Kg	.09443	0.09443	0.0996	U	<0.00199	o-Xylene
						U		, ,

MS MS

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

Client Sample ID: SW 04

Prep Type: Total/NA

Prep Batch: 98772

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

**Analysis Batch: 98774** 

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Unit Limits 0.101 Benzene <0.00199 U 0.1076 mg/Kg 107 70 - 130 4 35 <0.00199 U 0.09758 Ethylbenzene 0.101 mg/Kg 97 70 - 130 35 Toluene <0.00199 U 0.101 0.09792 mg/Kg 97 70 - 130 35 0.202 0.1939 70 - 130 35 m-Xylene & p-Xylene <0.00398 U mg/Kg 96 <0.00199 U 0.101 0.09873 98 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	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

MB	MB							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1
<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1
<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1
	<50.0 <50.0	MB   MB	Result         Qualifier         RL           <50.0	Result         Qualifier         RL         MDL           <50.0	Result         Qualifier         RL         MDL         Unit           <50.0	Result         Qualifier         RL         MDL mg/Kg         Unit mg/Kg         D           <50.0	Result         Qualifier         RL         MDL         Unit         D         Prepared           <50.0	Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           <50.0

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	12/26/24 10.	00 12/26/24 11:03	1
o-Terphenyl	133	S1+	70 - 130	12/26/24 10.	00 12/26/24 11:03	1

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

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

Client: CDH Consulting

Job ID: 890-7509-1 Project/Site: WESTALL LINE RELEASE SDG: LOCO HILLS, NM

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

Lab Sample ID: LCS 880-98818/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** Analysis Batch: 98811 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 Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** Prep Type: Total/NA Analysis Batch: 98811 Prep Batch: 98818

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1357 \*+ \*1 136 70 - 13021 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1397 \*+ \*1 140 mg/Kg 70 - 13022 20 C10-C28)

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98783/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 98786

мв мв

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

Lab Sample ID: LCS 880-98783/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 98786** 

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

Lab Sample ID: LCSD 880-98783/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid Analysis Batch: 98786** 

Spike LCSD LCSD %Rec RPD Result Qualifier Added Analyte Unit D %Rec Limits RPD Chloride 250 229.8 92 90 - 110 20 mg/Kg

**Eurofins Carlsbad** 

**Prep Type: Soluble** 

# **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

# **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

# **Lab Chronicle**

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

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

Lab Sample ID: 890-7509-1

Matrix: Solid

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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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	СН	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

# **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	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
,	are included in this report, but bes not offer certification.	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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: 890-7509-1

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

Released to Imaging: 8/28/2025 1:30:57 PM

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'

13 14

# **Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Project Name:   1/4 C   1/4				o					
Manager:   A ? C Ax C				2016572	121	X	June		N mall
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Hebras, IX (1973) 922-7593, Catabook, IX (1905) 983-1999  Literatory Name:    Alt Chill Literatory Company Name:   Alt Chill Child C		forced unless previously negotiated.	ico, but not analyzed. These terms will be en	submitted to Eurofins Xen	of \$5 for each sample	project and a charge	If be applied to each	imum charge of \$85.00 wi	f Eurofins Xenco. A mir
Manager:		standard terms and conditions	, its affiliates and subcontractors. It assigns	mpany to Eurofins Xenco,	se order from client co	stitutes a valid purch	ent of samples con	document and relinquishm	otice: Signature of this
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Manager:   M; Chall   W; Lfl   Sill to: (if different)   Little Rock, AR (501) 224-5060								/	
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elinquished by: elinquished by:

Date/Time

Company Company

Cooler Temperature(s) °C and Other Remarks

Date/Time

Company

Ver: 10/10/2024

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.

Deliverable Requested: I, II, III, IV, Other (specify)

Primary Deliverable Rank: 2

Date:

Time

Special Instructions/QC Requirements

Possible Hazard Identification

aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC.

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon

Method of Shipment

Date/Time

tote; 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 there is no extended the compliance upon our subcontract laboratories.

1089 N Canal St.

Carlsbad, NM 88220 Phone: 575-988-3199 Fax: 575-988-3199

Shipping/Receiving

Eurofins Environment Testing South Centr

Client Information (Sub Contract Lab)

N/A Phone:

Jodi.Allen@et.eurofinsus.com

Accreditations Required (See note)

NELAP - Texas

**Analysis Requested** 

Allen, Jodi L

NA State of Origin Texas

Page 1 of 1 COC No: 890-4449.1

Preservation Codes: 390-7509-1 Carrier Tracking No(s)

State, Zip: TX, 79701

432-704-5440(Tel)

Midland

1211 W. Florida Ave,

Due Date Requested: 12/23/2024

TAT Requested (days):

N/A

WESTALL LINE RELEASE

Project #: 89000037 WO# N/A

SW 04 (890-7509-1)

Sample Identification - Client ID (Lab ID)

Sample Date

G=grab) (C=comp Sample

Preservation Code:

Sample

Type

8015MOD\_Calc

Total\_BTEX\_GCV

Total Number of containers

Matrix

Field Filtered Sample (Yes or No)

300\_ORGFM\_28D/DI\_LEACH Chloride 8021B/5035FP\_Calc (MOD) BTEX - LL

8015MOD\_NM/8015NM\_S\_Prep (MOD) Full TPH

Perform MS/MSD (Yes or No)

12/20/24

Central

15:09

G

Solid

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**Eurofins Carlsbad** 

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eurofins

**Environment Testing** 

Page 18 of 20

Special Instructions/Note:

# **Login Sample Receipt Checklist**

Client: CDH Consulting Job Number: 890-7509-1

SDG Number: LOCO HILLS, NM

Login Number: 7509 List Source: Eurofins Carlsbad List Number: 1

Creator: Bruns, Shannon

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

List Course, Function Midland

List Source: Eurofins Midland List Creation: 12/26/24 11:11 AM

List Number: 2 Creator: Laing, Edmundo

Login Number: 7509

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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**Environment Testing** 

# **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

# **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**

Genera 1/7/202

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

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: CDH Consulting

Laboratory Job ID: 890-7542-1

Project/Site: WESTALL LINE RELEASE

SDG: LOCO HILLS

# **Table of Contents**

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QC Association Summary	31
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# **Definitions/Glossary**

Job ID: 890-7542-1 Client: CDH Consulting Project/Site: WESTALL LINE RELEASE

SDG: LOCO HILLS

**Qualifiers** 

**GC VOA** 

Qualifier **Qualifier Description** 

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. Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

**TNTC** Too Numerous To Count

# **Case Narrative**

Client: CDH Consulting Job ID: 890-7542-1 Project: WESTALL LINE RELEASE

**Eurofins Carlsbad** Job ID: 890-7542-1

# 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.

Matrix: Solid

# **Client Sample Results**

Client: CDH Consulting

Job ID: 890-7542-1 Project/Site: WESTALL LINE RELEASE SDG: LOCO HILLS

Lab Sample ID: 890-7542-1

Date Collected: 01/03/25 13:10 Date Received: 01/06/25 16:20

Client Sample ID: FS 01

Sample Depth: 4'

	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
Analyte Total RTEY		Qualifier	RL	MDL	ma/Ka	D	Prepared	Analyzed	
Total BTEX  Method: SW846 8015 NM - Diese	<0.00399	ics (DRO) (	0.00399 GC)		mg/Kg			01/07/25 11:36	1
Total BTEX	<0.00399	U	0.00399	MDL			Prepared		Dil Fac Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese	<0.00399	ics (DRO) (C	0.00399 GC)					01/07/25 11:36	1
Total BTEX  Method: SW846 8015 NM - Diese Analyte	<0.00399 el Range Organ Result <49.8	ics (DRO) (( Qualifier	0.00399 GC)  RL  49.8		Unit			01/07/25 11:36  Analyzed	1
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH	<0.00399 el Range Organ Result <a href="#">&lt;49.8</a> sel Range Orga	ics (DRO) (( Qualifier	0.00399 GC)  RL  49.8		Unit mg/Kg			01/07/25 11:36  Analyzed	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH  Method: SW846 8015B NM - Diese	<0.00399 el Range Organ Result <a href="#">&lt;49.8</a> sel Range Orga	ics (DRO) ((Qualifier Unics (DRO)) Qualifier	0.00399  GC)  RL 49.8	MDL	Unit mg/Kg	<u>D</u>	Prepared	01/07/25 11:36  Analyzed  01/07/25 14:05	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00399 el Range Organ Result <a href="#">&lt;49.8</a> sel Range Orga Result	ics (DRO) (0 Qualifier U  nics (DRO) Qualifier U *+	0.00399  RL 49.8  (GC) RL	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	01/07/25 11:36  Analyzed  01/07/25 14:05  Analyzed	1

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier

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

Client Sample ID: FS 02 Date Collected: 01/03/25 13:00 Date Received: 01/06/25 16:20

Sample Depth: 4'

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)			70 - 130				01/07/25 08:40	01/07/25 11:56	1

**Eurofins Carlsbad** 

Lab Sample ID: 890-7542-2

**Matrix: Solid** 

# **Client Sample Results**

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

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

Lab Sample ID: 890-7542-2

Client Sample ID: FS 02

Date Collected: 01/03/25 13:00 Date Received: 01/06/25 16:20

**Matrix: Solid** 

Sample Depth: 4'

Method: SW846 8021B	- Volatile Organic	Compounds (	(GC) (Continued)
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Surrogate	%Recovery	Qualifier Lin	mits Prepa	ared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104	70	<i>-</i> 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		Jnit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	r	na/Ka			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

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 Date Received: 01/06/25 16:20

Sample Depth: 4'

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

Analyte	Result	Qualifier	RL	MDL (	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	r	mg/Kg		01/07/25 08:40	01/07/25 12:17	1
Ethylbenzene	< 0.00199	U	0.00199	r	mg/Kg		01/07/25 08:40	01/07/25 12:17	1
Toluene	< 0.00199	U	0.00199	r	mg/Kg		01/07/25 08:40	01/07/25 12:17	1
Xylenes, Total	<0.00398	U	0.00398	r	mg/Kg		01/07/25 08:40	01/07/25 12:17	1
m-Xylene & p-Xylene	< 0.00398	U	0.00398	r	mg/Kg		01/07/25 08:40	01/07/25 12:17	1
o-Xylene	<0.00199	U	0.00199	r	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
4.4.Diff	405		70 400				04/07/05 00:40	04/07/05 40:47	

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

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

**Eurofins Carlsbad** 

**Matrix: Solid** 

# **Client Sample Results**

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

SDG: LOCO HILLS

**Client Sample ID: FS 03** 

Date Collected: 01/03/25 12:50 Date Received: 01/06/25 16:20 Lab Sample ID: 890-7542-3 Matrix: Solid

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U *+	49.8		mg/Kg		01/07/25 09:45	01/07/25 14:36	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U *+	49.8		mg/Kg		01/07/25 09:45	01/07/25 14:36	1
C10-C28)									
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	Chromatograp	hy - Solubl	e						
	Pocult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifici			•	_		·,	

Client Sample ID: FS 04 Lab Sample ID: 890-7542-4 Matrix: Solid

Date Collected: 01/03/25 12:40 Date Received: 01/06/25 16:20

Sample Depth: 4'

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 - T	otal BTEX Cald	culation							
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 - Diese	l Range Organ	ics (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 - Dies	sel Range Orga	nics (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
			70 - 130				01/07/25 09:45	01/07/25 14:52	1

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

SDG: LOCO HILLS

Lab Sample ID: 890-7542-4

Matrix: Solid

**Matrix: Solid** 

Client Sample ID: FS 04

Date Collected: 01/03/25 12:40 Date Received: 01/06/25 16:20

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	9						
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 Date Received: 01/06/25 16:20

Sample Depth: 4'

o-Terphenyl

Analyte

Chloride

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	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 12:58	
Toluene	< 0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 12:58	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:40	01/07/25 12:58	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:40	01/07/25 12:58	
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 12:58	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	116		70 - 130				01/07/25 08:40	01/07/25 12:58	
1,4-Difluorobenzene (Surr)	104		70 - 130				01/07/25 08:40	01/07/25 12:58	•
Analyte Total BTEX	<0.00398	Qualifier U		MIDL	Unit mg/Kg	D	Prepared	Analyzed 01/07/25 12:58	Dil Fa
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (							
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (		MDL	Unit	D	Prepared	Analyzed	Dil Fa
		Qualifier	GC)	MDL	Unit mg/Kg	D	Prepared	Analyzed 01/07/25 15:08	Dil Fa
Analyte		Qualifier U	RL 49.7	MDL		<u>D</u>	Prepared		Dil Fa
Analyte Total TPH	Result <49.7	Qualifier U	RL 49.7			<u>D</u>	Prepared Prepared		
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.7	Qualifier Unics (DRO) Qualifier	RL 49.7 (GC)		mg/Kg			01/07/25 15:08	
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte	Result <49.7 sel Range Orga	Qualifier U  nics (DRO) Qualifier U *+	RL 49.7 (GC)		mg/Kg		Prepared	01/07/25 15:08  Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.7 sel Range Orga Result <49.7	Qualifier U  nics (DRO) Qualifier U *+	GC)  RL 49.7  (GC) RL 49.7		mg/Kg  Unit mg/Kg		Prepared 01/07/25 09:45	01/07/25 15:08  Analyzed  01/07/25 15:08	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.7 sel Range Orga Result <49.7	Qualifier U  nics (DRO) Qualifier U *+ U *+	GC)  RL 49.7  (GC) RL 49.7		mg/Kg  Unit mg/Kg		Prepared 01/07/25 09:45	01/07/25 15:08  Analyzed  01/07/25 15:08	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7 sel Range Orga Result <49.7 <49.7	Qualifier U  nics (DRO) Qualifier U *+ U *+	GC)  RL 49.7  (GC) RL 49.7  49.7		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/07/25 09:45 01/07/25 09:45	01/07/25 15:08  Analyzed 01/07/25 15:08  01/07/25 15:08	Dil Fac

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01/07/25 09:45

Prepared

D

01/07/25 15:08

Analyzed

01/07/25 13:04

70 - 130

RL

49.7

MDL Unit

mg/Kg

111

2020

Result Qualifier

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Dil Fac

Matrix: Solid

# **Client Sample Results**

Client: CDH Consulting

Job ID: 890-7542-1 Project/Site: WESTALL LINE RELEASE SDG: LOCO HILLS

Lab Sample ID: 890-7542-6

Date Collected: 01/03/25 12:20 Date Received: 01/06/25 16:20

Client Sample ID: FS 06

Sample Depth: 4'

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)			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 - 1	Total BTEX Cald	culation							
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
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Total TPH	<49.7	U	49.7	<del></del>	ma/Ka				
Total TPH	<49.7		49.7		mg/Kg			01/07/25 15:39	
: Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)				<u> </u>	01/07/25 15:39	1
Method: SW846 8015B NM - Die: Analyte	sel Range Orga Result	nics (DRO) Qualifier	(GC)	MDL	Unit	D	Prepared	01/07/25 15:39 Analyzed	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)			<u>D</u>	<u> </u>	01/07/25 15:39	1 Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result	nics (DRO) Qualifier U *+	(GC)		Unit	<u>D</u>	Prepared	01/07/25 15:39 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result <49.7	nics (DRO) Qualifier U *+	(GC)  RL 49.7		Unit mg/Kg	<u>D</u>	Prepared 01/07/25 09:45	01/07/25 15:39  Analyzed  01/07/25 15:39	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Orga Result <49.7	nics (DRO) Qualifier U *+ U *+	(GC)  RL 49.7		Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/07/25 09:45 01/07/25 09:45	01/07/25 15:39  Analyzed  01/07/25 15:39  01/07/25 15:39	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Orga Result <49.7 <49.7	nics (DRO) Qualifier U *+ U *+	(GC)  RL 49.7  49.7  49.7		Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/07/25 09:45 01/07/25 09:45 01/07/25 09:45	01/07/25 15:39  Analyzed 01/07/25 15:39 01/07/25 15:39 01/07/25 15:39	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	sel Range Orga Result <49.7 <49.7 <49.7 %Recovery	nics (DRO) Qualifier U *+ U *+	(GC)  RL 49.7  49.7  49.7  Limits		Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/07/25 09:45 01/07/25 09:45 01/07/25 09:45 Prepared	Analyzed 01/07/25 15:39  Analyzed 01/07/25 15:39 01/07/25 15:39  Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier U*+ U*+ U Qualifier	(GC)  RL 49.7  49.7  49.7  Limits 70 - 130 70 - 130		Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/07/25 09:45 01/07/25 09:45 01/07/25 09:45  Prepared 01/07/25 09:45	Analyzed 01/07/25 15:39  Analyzed 01/07/25 15:39  01/07/25 15:39  Analyzed 01/07/25 15:39	Dil Fac
Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Sel Range Orga   Result	Qualifier U*+ U*+ U Qualifier	(GC)  RL 49.7  49.7  49.7  Limits 70 - 130 70 - 130		Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 01/07/25 09:45 01/07/25 09:45 01/07/25 09:45  Prepared 01/07/25 09:45	Analyzed 01/07/25 15:39  Analyzed 01/07/25 15:39  01/07/25 15:39  Analyzed 01/07/25 15:39	Dil Fac  1  Dil Fac  1  Dil Fac  1  Dil Fac  1  Dil Fac

Client Sample ID: FS 07

Date Collected: 01/03/25 13:15

Date Received: 01/06/25 16:20

Sample Depth: 4'

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)			70 - 130				01/07/25 08:40	01/07/25 13:39	1

**Eurofins Carlsbad** 

Lab Sample ID: 890-7542-7

**Matrix: Solid** 

**Matrix: Solid** 

# **Client Sample Results**

Client: CDH Consulting

Job ID: 890-7542-1 Project/Site: WESTALL LINE RELEASE SDG: LOCO HILLS

Lab Sample ID: 890-7542-7

Client Sample ID: FS 07 Date Collected: 01/03/25 13:15

Date Received: 01/06/25 16:20

Sample Depth: 4'

Method: SW846 8021B	- Volatile Organic	Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualif	fier 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

н					
ı	Method: SW846 8015 NM -	Diocal Bango (	Pragnice /	(DDO)	(CC)
П	INICITION. 344040 OUTS ININI -	Diesei Kalige	Jiyailics	וטאט	1001

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

Surrogate	%Recovery Quali	ifier 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	I	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 Date Received: 01/06/25 16:20

Sample Depth: 4'

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

4-Bromofluorobenzene (Surr)	113	70 - 130	01/07/25 08:40
1,4-Difluorobenzene (Surr)	106	70 - 130	01/07/25 08:40

### **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

**Eurofins Carlsbad** 

**Matrix: Solid** 

Client: CDH Consulting

**Client Sample ID: FS 08** 

Date Collected: 01/03/25 13:05

Date Received: 01/06/25 16:20

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

SDG: LOCO HILLS

Lab Sample ID: 890-7542-8

Matrix: Solid

Sample Depth: 4'

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	<49.8	U *+	49.8		mg/Kg		01/07/25 09:45	01/07/25 16:11	1
C10-C28)									
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	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS 09 Lab Sample ID: 890-7542-9 Matrix: Solid

Date Collected: 01/03/25 12:55

Date Received: 01/06/25 16:20

Sample Depth: 4'

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 - 1	Total BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	П	0.00398		mg/Kg			01/07/25 14:20	1
Total DTLX	0.0000	O	0.00000		9/.19			01/01/20 14.20	
- -					mg/rtg			01/01/20 14.20	
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (	GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)	MDL		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte	Result <a href="#">&lt;49.8</a>	Cualifier	GC)  RL 49.8	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result 49.8 sel Range Organ	Cualifier	GC)  RL 49.8	MDL	Unit mg/Kg	D_	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result 49.8 sel Range Organ	Qualifier Unics (DRO) Qualifier	GC)  RL 49.8		Unit mg/Kg		<u> </u>	Analyzed 01/07/25 16:28	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result 49.8 sel Range Orga Result  49.8	Qualifier U nics (DRO) Qualifier U v+	GC)  RL 49.8  (GC)  RL 49.8		Unit mg/Kg  Unit mg/Kg		Prepared 01/07/25 09:45	Analyzed 01/07/25 16:28  Analyzed 01/07/25 16:28	Dil Fac  Dil Fac  1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <a href="#">&lt;49.8</a> <a href="#">sel Range Organ</a> Result	Qualifier U nics (DRO) Qualifier U v+	GC)  RL 49.8  (GC) RL		Unit mg/Kg		Prepared	Analyzed 01/07/25 16:28 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result 49.8 sel Range Orga Result  49.8	cics (DRO) ( Qualifier U  nics (DRO) Qualifier U *+ U *+	GC)  RL 49.8  (GC)  RL 49.8		Unit mg/Kg  Unit mg/Kg		Prepared 01/07/25 09:45	Analyzed 01/07/25 16:28  Analyzed 01/07/25 16:28	Dil Fac  Dil Fac  1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result 49.8 sel Range Orga Result  49.8 49.8	cics (DRO) ( Qualifier U  nics (DRO) Qualifier U *+ U *+	GC)  RL 49.8  (GC)  RL 49.8  49.8		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 01/07/25 09:45 01/07/25 09:45	Analyzed 01/07/25 16:28  Analyzed 01/07/25 16:28 01/07/25 16:28	Dil Fac  Dil Fac  1  1  1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.8 sel Range Orga Result  49.8 49.8 49.8	cics (DRO) ( Qualifier U  nics (DRO) Qualifier U *+ U *+	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 01/07/25 09:45 01/07/25 09:45 01/07/25 09:45	Analyzed 01/07/25 16:28  Analyzed 01/07/25 16:28 01/07/25 16:28 01/07/25 16:28	Dil Fac  Dil Fac  1

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

SDG: LOCO HILLS

Client Sample ID: FS 09

Date Collected: 01/03/25 12:55 Date Received: 01/06/25 16:20

Lab Sample ID: 890-7542-9 Matrix: Solid

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	9						
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 **Matrix: Solid** 

Date Collected: 01/03/25 12:45 Date Received: 01/06/25 16:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Sample Depth: 4'

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)			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

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 R	Range Organ	ics (DRO) ((	GC)					

method. Offoro outo Min - Dieser Ran	ge Organ	ics (Dito) (c	,0,					
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
_								

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 <sub>-</sub> 130				01/07/25 09:45	01/07/25 16:44	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	243		10.1		mg/Kg			01/07/25 11:51	1

Client: CDH Consulting

Client Sample ID: FS 11

Date Received: 01/06/25 16:20

Project/Site: WESTALL LINE RELEASE

SDG: LOCO HILLS

Lab Sample ID: 890-7542-11

Matrix: Solid

Job ID: 890-7542-1

Date Collected: 01/03/25 12:35

Sample Depth: 4'

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	
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 - 1	Total BTEX Cald	culation							
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 - Diese	el Range Organ	ics (DRO) (	GC)						
Analyte	•	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 - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U *+	49.7		mg/Kg		01/07/25 09:45	01/07/25 17:01	1
(GRO)-C6-C10	.40.7	11 *.	40.7		11.7		04/07/05 00 45	04/07/05 47 04	
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 Fa
4 Ohlawa a stawa			70 - 130				01/07/25 09:45	01/07/25 17:01	
1-Chlorooctane	102		10 - 130				01/01/20 03.40	01/01/20 11.01	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier

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

Date Collected: 01/03/25 12:25 Date Received: 01/06/25 16:20

Client Sample ID: FS 12

Sample Depth: 4'

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)			70 - 130				01/07/25 08:46	01/07/25 11:55	1

**Eurofins Carlsbad** 

Lab Sample ID: 890-7542-12

**Matrix: Solid** 

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

SDG: LOCO HILLS

Matrix: Solid

Lab Sample ID: 890-7542-12

**Client Sample ID: FS 12** 

Date Collected: 01/03/25 12:25

Date Received: 01/06/25 16:20

Sample Depth: 4'

THE CLASSIC CONTRACTOR OF THE	
Method: SW846 8021B - Volatile Organic Compounds (GC) (Continu	(ha

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

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

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

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 Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

Markland, CIMO 40 00	21B - Volatile Organic	O
IVIATOON' SVVXAN XII	21B - Volatile Circanic	L.Omnollings (Lat.)

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

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
l	Total BTEX	<0.00398		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

**Eurofins Carlsbad** 

**Matrix: Solid** 

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

Sample Depth: 0' - 4'

Date Received: 01/06/25 16:20

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	Chromatograp	hy - Solub	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte							•	•	

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'

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 - T	otal BTEX Cald	culation							
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 - Diese	l Range Organ	ics (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 - Dies	el Range Orga	nics (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 <sub>-</sub> 130				01/07/25 09:45	01/07/25 17:48	1

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

SDG: LOCO HILLS

Client Sample ID: SW 02

Date Collected: 01/03/25 14:45 Date Received: 01/06/25 16:20

Lab Sample ID: 890-7542-14 Matrix: Solid

Sample Depth: 0' - 4'

Method: EPA 300.0 - Anions, Ion C	hromatography - 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 Matrix: Solid

Date Collected: 01/03/25 13:20 Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

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 - T	otal BTEX Cald	culation							
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 - Diese	I Range Organ	ics (DRO) (0	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 - Dies	sel Range Orga	nics (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	Chromatograp	hy - Solubl	<b>e</b>						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Lab Sample ID: 890-7542-16

Matrix: Solid

Job ID: 890-7542-1

SDG: LOCO HILLS

Client Sample ID: SW 05 Date Collected: 01/03/25 14:30

Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

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 - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese			•	MDI	I I miá		Drawarad	Amalumad	Dil Faa
Analyte		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 - Dies	sel Range Orga	nics (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	• •	•							
Method: EPA 300.0 - Anions, Ion Analyte	• •	ohy - Solubl Qualifier	RL 9.92	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/07/25 12:47	Dil Fac

Client Sample ID: SW 06

Date Collected: 01/03/25 14:35 Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

Lab Sample ID: 890-7542-17

Matrix: Solid

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	

Client: CDH Consulting

Job ID: 890-7542-1 Project/Site: WESTALL LINE RELEASE SDG: LOCO HILLS

Client Sample ID: SW 06 Lab Sample ID: 890-7542-17 Matrix: Solid

Date Collected: 01/03/25 14:35 Date Received: 01/06/25 16:20

Sample Depth: 0' - 4'

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

Mothod: TAI	SOP Total BTEX	. Total RTEX	Calculation
Method. IAL	- SUP IUIAI BIE/	I - IULAI DIEA	Calculation

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

Method: SW846 8015 NM - Diesel Range Organics (DRO) (0	н						
	ı	Mothod: CIMOAC ODAE NIM	Discal Bangs	Organica	(DDO)		١.
	н	MELITOU. SYVO40 OUTS INIVI-	· Diesei Kaliue	Organics	IURUI	uu	

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 Or	ganics (DRO)	(GC)
Michiga Offoro Colod Min - Dieser Range Of	garries (Dito)	(00)

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

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		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 Date Received: 01/06/25 16:20

Sample Depth: 4'

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

Welliou. Syvo46 60216 - Voial	ne Organic Comp	ounus (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

ı	4-bromonuorobenzene (Surr)	103	70 - 130	01/01/25 06.46	01/01/25 13.56	ı
	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

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

**Eurofins Carlsbad** 

Matrix: Solid

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

Lab Sample ID: 890-7542-18

01/07/25 12:59

Matrix: Solid

Lab Sample ID: 890-7542-19

SDG: LOCO HILLS

Matrix: Solid

**Client Sample ID: FS 13** 

Date Collected: 01/03/25 15:40 Date Received: 01/06/25 16:20

Sample Depth: 4'

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 <sub>-</sub> 130				01/07/25 09:48	01/07/25 20:30	1

49.6

mg/Kg

1800

Client Sample ID: FS 14

Date Collected: 01/03/25 15:45

Date Received: 01/06/25 16:20

Sample Depth: 4'

Chloride

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 - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/07/25 14:19	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
			<b>30</b> )						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result < 50.3	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/07/25 20:16	Dil Fac
Total TPH	<50.3	Qualifier U	RL	MDL		<u>D</u>	Prepared		
Total TPH  Method: SW846 8015B NM - Dies	<50.3	Qualifier U	RL	MDL MDL	mg/Kg	<u>D</u> 	Prepared Prepared		
Total TPH  Method: SW846 8015B NM - Dies Analyte	<50.3	Qualifier Unics (DRO) Qualifier	RL 50.3		mg/Kg			01/07/25 20:16	1
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<50.3 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 50.3 (GC)		mg/Kg		Prepared	01/07/25 20:16  Analyzed	1 Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.3 sel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	RL 50.3 (GC)		mg/Kg		Prepared	01/07/25 20:16  Analyzed	1 Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.3 sel Range Orga Result <50.3 <50.3	Qualifier U  nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3 50.3		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/07/25 10:51 01/07/25 10:51	01/07/25 20:16  Analyzed  01/07/25 20:16  01/07/25 20:16	Dil Fac
	<50.3 sel Range Orga Result <50.3	Qualifier U  nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3		mg/Kg  Unit mg/Kg		Prepared 01/07/25 10:51	01/07/25 20:16  Analyzed  01/07/25 20:16	Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	<50.3 sel Range Orga Result <50.3 <50.3	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL     50.3		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/07/25 10:51 01/07/25 10:51 01/07/25 10:51 Prepared	Analyzed 01/07/25 20:16  Analyzed 01/07/25 20:16 01/07/25 20:16  Analyzed	1 Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<50.3 sel Range Orga Result <50.3 <50.3 <50.3	Qualifier U  nics (DRO) Qualifier U  U	RL 50.3 (GC) RL 50.3 50.3		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/07/25 10:51 01/07/25 10:51 01/07/25 10:51	01/07/25 20:16  Analyzed 01/07/25 20:16  01/07/25 20:16  01/07/25 20:16	1 Dil Fac 1 1

Client: CDH Consulting

Job ID: 890-7542-1

Project/Site: WESTALL LINE RELEASE

SDG: LOCO HILLS

Client Sample ID: FS 14 Lab Sample ID: 890-7542-19

Date Collected: 01/03/25 15:45
Date Received: 01/06/25 16:20
Matrix: Solid

Sample Depth: 4'

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	

5

6

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10

12

13

14

# **Surrogate Summary**

Client: CDH Consulting

Job ID: 890-7542-1

Project/Site: WESTALL LINE RELEASE

SDG: LOCO HILLS

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-7542-1	FS 01	102	98	
0-7542-1 MS	FS 01	112	102	
90-7542-1 MSD	FS 01	116	102	
90-7542-2	FS 02	116	104	
90-7542-3	FS 03	115	105	
90-7542-4	FS 04	118	105	
90-7542-5	FS 05	116	104	
90-7542-6	FS 06	117	104	
90-7542-7	FS 07	119	105	
90-7542-8	FS 08	113	106	
90-7542-9	FS 09	107	99	
90-7542-10	FS 10	116	105	
90-7542-11	FS 11	109	97	
90-7542-11 MS	FS 11	114	97	
90-7542-11 MSD	FS 11	111	98	
90-7542-12	FS 12	107	95	
90-7542-13	SW 01	98	94	
90-7542-14	SW 02	102	94	
90-7542-15	SW 03	96	98	
90-7542-16	SW 05	127	90	
90-7542-17	SW 06	107	95	
90-7542-18	FS 13	103	100	
90-7542-19	FS 14	109	98	
CS 880-99630/1-A	Lab Control Sample	113	102	
CS 880-99633/1-A	Lab Control Sample	110	97	
CSD 880-99630/2-A	Lab Control Sample Dup	115	102	
CSD 880-99633/2-A	Lab Control Sample Dup	96	101	
B 880-99630/5-A	Method Blank	109	102	
B 880-99633/5-A	Method Blank	86	91	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

-			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7542-1	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

# **Surrogate Summary**

Client: CDH Consulting

Job ID: 890-7542-1

Project/Site: WESTALL LINE RELEASE

SDG: LOCO HILLS

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(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	

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Client: CDH Consulting Job ID: 890-7542-1 Project/Site: WESTALL LINE RELEASE SDG: LOCO HILLS

Method: 8021B - Volatile Organic Compounds (GC)

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

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

**Matrix: Solid** Analysis Batch: 99626 Client Sample ID: Method Blank

Prep Type: Total/NA

: 99630

	Prep Batch:

	MB	MR							
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 11:14	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

MB MB

Surrogate	%Recovery	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

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 99630

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

LCS LCS

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

**Client Sample ID: Lab Control Sample Dup** 

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 99626

Analysis Batch: 99626

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

Prep Type: Total/NA Prep Batch: 99630

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

LCSD LCSD

Surrogate	%Recovery	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

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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	

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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	

MS MS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Client Sample ID: FS 01 Prep Type: Total/NA

Prep Batch: 99630

Lab Sample ID: 890-7542-1 MSD **Matrix: Solid** 

Analysis Batch: 99626

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1070		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

MSD MSD

Surrogate	%Recovery Qualifier	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	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 11:13	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

MB MB

MB MB

Surrogate	%Recovery	Qualifier	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

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%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	

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 **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 99625** Prep Batch: 99633 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits D 0.100 0 1147 115 70 - 130 o-Xylene mg/Kg

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

Lab Sample ID: LCSD 880-99633/2-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

**Analysis Batch: 99625** 

Prep Batch: 99633 Spike LCSD LCSD RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1013 mg/Kg 101 70 - 130 35 Ethylbenzene 0.100 0.1031 mg/Kg 103 70 - 130 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 35 0.100 0.1084 108 70 - 130 o-Xylene mg/Kg

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

Client Sample ID: FS 11 Lab Sample ID: 890-7542-11 MS **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 99625** 

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Analyte Unit %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

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

Lab Sample ID: 890-7542-11 MSD

**Matrix: Solid** 

Analysis Batch: 99625									Prep	Batch:	99633
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1129		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

**Eurofins Carlsbad** 

Prep Batch: 99633

Client Sample ID: FS 11

Prep Type: Total/NA

Job ID: 890-7542-1 Client: CDH Consulting Project/Site: WESTALL LINE RELEASE 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 Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 01/07/25 09:45 01/07/25 10:19 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 01/07/25 09:45 01/07/25 10:19 C10-C28) Oil Range Organics (Over C28-C36) 50.0 01/07/25 09:45 01/07/25 10:19 <50.0 U mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130	01/07/25 09:4	5 01/07/25 10:19	1
o-Terphenyl	152	S1+	70 - 130	01/07/25 09:4	5 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	1000	1326	*+	mg/Kg		133	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1353	*+	mg/Kg		135	70 - 130	
C10-C28)								

LCS LCS

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	1000	1384	*+	mg/Kg		138	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1450	*+	mg/Kg		145	70 - 130	7	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	152	S1+	70 - 130		
o-Terphenvl	162	S1+	70 - 130		

Client: CDH Consulting Job ID: 890-7542-1 Project/Site: WESTALL LINE RELEASE SDG: LOCO HILLS

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

MD MD

114

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

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

70 - 130

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

**Matrix: Solid** 

o-Terphenyl

Analysis Batch: 99653

Client Sample ID: Lab Control Sample

01/07/25 18:47

01/07/25 09:48

Prep Type: Total/NA Prep Batch: 99661

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1360 136 70 - 130 mg/Kg (GRO)-C6-C10 1000 1425 \*+ Diesel Range Organics (Over mg/Kg 143 70 - 130C10-C28)

LCS LCS

%Recovery Qualifier Limits Surrogate 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

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

LCSD LCSD

Surrogate	%Recovery	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

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

Client: CDH Consulting

Job ID: 890-7542-1 Project/Site: WESTALL LINE RELEASE SDG: LOCO HILLS

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

MS MS

%Recovery Qualifier

84

Lab Sample ID: 890-7542-16 MS

**Matrix: Solid** 

Surrogate

1-Chlorooctane

**Matrix: Solid** 

Analysis Batch: 99653

Client Sample ID: SW 05 Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 99667

Prep Batch: 99661

o-Terphenyl 81 70 - 130

Limits

70 - 130

Lab Sample ID: 890-7542-16 MSD Client Sample ID: SW 05

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

Analysis Batch: 99653 Prep Batch: 99661

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U\*+ 999 903.7 90 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 852.2 85 <49.9 U\*+ mg/Kg 70 - 13020 C10-C28)

MSD MSD

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

Lab Sample ID: MB 880-99667/1-A Client Sample ID: Method Blank

**Analysis Batch: 99655** 

MB MB

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

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 70 - 130 01/07/25 10:51 01/07/25 18:47 o-Terphenyl 110

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

**Matrix: Solid** Prep Type: Total/NA Analysis Batch: 99655 Prep Batch: 99667

Spike LCS LCS %Rec

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

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenvl	128		70 <sub>-</sub> 130

Client: CDH Consulting Job ID: 890-7542-1 Project/Site: WESTALL LINE RELEASE

SDG: LOCO HILLS

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

MR MR

Lab Sample ID: LCSD 880-99667/3-A	Client Sample ID: Lab Control Sample									
Matrix: Solid						Prep 1	ype: To	tal/NA		
Analysis Batch: 99655							Prep	Batch:	99667	
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1174		mg/Kg		117	70 - 130	2	20	
(GRO)-C6-C10										

1000 1280 Diesel Range Organics (Over mg/Kg 128 70 - 130C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	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 Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 99648

	11.10	14.15							
Analyte	Result	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 **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble Analysis Batch: 99648** 

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

Lab Sample ID: LCSD 880-99622/3-A **Client Sample ID: Lab Control Sample Dup** Matrix: Solid **Prep Type: Soluble** 

Analysis Batch: 99648

	Spike	LCSD	LCSD			%Rec		RPD	
Analyte	Added	Result	Qualifier Un	it D	%Rec	Limits	RPD	Limit	
Chloride	250	261.3	mg	J/Kg	105	90 - 110	0	20	

Client Sample ID: FS 10 Lab Sample ID: 890-7542-10 MS **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 99648

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

Lab Sample ID: 890-7542-10 MSD Client Sample ID: FS 10 **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 99648

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

Client: CDH Consulting

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# **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	

Client: CDH Consulting

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### **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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Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

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# 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	
390-7542-6	FS 06	Total/NA	Solid	8015NM Prep	
390-7542-7	FS 07	Total/NA	Solid	8015NM Prep	
390-7542-8	FS 08	Total/NA	Solid	8015NM Prep	
390-7542-9	FS 09	Total/NA	Solid	8015NM Prep	
390-7542-10	FS 10	Total/NA	Solid	8015NM Prep	
390-7542-11	FS 11	Total/NA	Solid	8015NM Prep	
390-7542-12	FS 12	Total/NA	Solid	8015NM Prep	
390-7542-13	SW 01	Total/NA	Solid	8015NM Prep	
390-7542-14	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	
_CS 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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# 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
L	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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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

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

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

Client Sample ID: FS 01

Date Collected: 01/03/25 13:10 Date Received: 01/06/25 16:20 Lab Sample ID: 890-7542-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Lab Sample ID: 890-7542-2

Matrix: Solid

Date Collected: 01/03/25 13:00 Date Received: 01/06/25 16:20

Client Sample ID: FS 02

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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** 

Date Collected: 01/03/25 12:50

Date Received: 01/06/25 16:20

Lab Sample	ID:	890-7542-3

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Date Collected: 01/03/25 12:40

Date Received: 01/06/25 16:20

Lab Sar	nple ID:	89	0	-7	542	2-4	4
					_		

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

SDG: LOCO HILLS

Client Sample ID: FS 04

Date Collected: 01/03/25 12:40 Date Received: 01/06/25 16:20

Lab Sample ID: 890-7542-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Date Received: 01/06/25 16:20

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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 Date Received: 01/06/25 16:20 **Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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 Date Received: 01/06/25 16:20

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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** 

**Matrix: Solid** 

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

SDG: LOCO HILLS

Client Sample ID: FS 07

Date Collected: 01/03/25 13:15 Date Received: 01/06/25 16:20 Lab Sample ID: 890-7542-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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 Date Received: 01/06/25 16:20 **Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Date Received: 01/06/25 16:20

•		
	Matrix:	Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

SDG: LOCO HILLS

Client Sample ID: FS 11

Date Collected: 01/03/25 12:35 Date Received: 01/06/25 16:20

Lab Sample ID: 890-7542-11

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Date Collected: 01/03/25 12:25

Date Received: 01/06/25 16:20

Lab Sample ID: 890-7542-12

**Matrix: Solid** 

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

Client Sample ID: SW 01

Date Collected: 01/03/25 14:40

Date Received: 01/06/25 16:20

Lab Sample ID: 890-7542-13

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Date Collected: 01/03/25 14:45 Date Received: 01/06/25 16:20

Lab Sample ID: 890-7542-14

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

SDG: LOCO HILLS

Client Sample ID: SW 02

Date Collected: 01/03/25 14:45 Date Received: 01/06/25 16:20 Lab Sample ID: 890-7542-14

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Lab Sample ID: 890-7542-15

**Matrix: Solid** 

Date Collected: 01/03/25 13:20 Date Received: 01/06/25 16:20

Client Sample ID: SW 03

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Date Received: 01/06/25 16:20

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Lab Sample ID: 890-7542-17 Client Sample ID: SW 06

Date Collected: 01/03/25 14:35 Date Received: 01/06/25 16:20

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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** 

**Matrix: Solid** 

**Matrix: Solid** 

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7542-1

SDG: LOCO HILLS

Lab Sample ID: 890-7542-17

Matrix: Solid

Client Sample ID: SW 06 Date Collected: 01/03/25 14:35

Date Received: 01/06/25 16:20

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Lab Sample ID: 890-7542-19

**Matrix: Solid** 

Date Collected: 01/03/25 15:45 Date Received: 01/06/25 16:20

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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	Progra	am	Identification Number	Expiration Date
Texas	NELA	)	T104704400	06-30-25
,	are included in this report, bu	t the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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

**Eurofins Carlsbad** 

Released to Imaging: 8/28/2025 1:30:57 PM

# **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'

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4

**5** 

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13

14

# eurofins

Project Manager: Company Name:

Michael

Wicker

Crow work

+ BAR

Address:

State of Project:

Program: UST/PST 🗌 PRP 📗 Brownfields 📗 RRC 📗 Superfund 📗

**Work Order Comments** 

Company Name: Bill to: (if different)

# **Environment Testing**

# **Chain of Custody**

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 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Little Rock, AR (501) 224-5060

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Preservative  None: NO DI  Cool: Cool Me HCL: HC HN H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> Na H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NaBIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Z NaOH+Ascorbic Acid Sample Com Sample Com Sample Com Date  Date					1971	11/6		12	n	X		014.	11/1/11
Preservative  None: NO DI  Cool: Cool Me HCL: HC HN H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> Na H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: 2 NaOH+Ascorbic Acit Sample Com Sample Com			Received by: (Signature)	Relinquished by: (Signature)				: (Signature)	elived by	Re	nature)	d by: (Sigr	Relinquished by: (Signature)
Preservative  None: NO DI  Cool: Cool Me HCL: HC HN H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> Na H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NaBIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Z NaOH+Ascorbic Acid Sample Com	<u> </u>	itions titions ontrol gotfafied.	gns standard terms and condition to circumstances beyond the construction of the confered unless previously neg	its affiliates and subconfractors. It assi- red by the client if such losses are due too, but not analyzed. These terms will be	pany to Eurofins Xenco, losses or expenses incur ibmitted to Eurofins Xen	for any I	e order from cl / responsibility of \$5 for each s	se a valid purchas sil not assume an act and a charge	es constitute ples and sha o each proje	nt of sampl cost of sam be applied:	nt and relinquishme a liable only for the narge of \$85.00 will	this documen Xenco will be Aminimum ch	: Signature of /ice. Eurofina ofine Xenco.
Conception   Facility   Control	14	1 / 245.1 / 7470	9 Ag TI U Hg: 1	Cr Co Cu Pb Mn Mo Ni Se	As Ba Be Cd	St St	010: 8RCF	CLP / SPLP	7	alyzed	Circle Method(s) and Metal(s) to be analyzed	s) and Met	e Method(
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eurofins :

**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 **Chain of Custody** 

Little Rock, AR (501) 224-5060

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Sample Comments			BTE TPH Chi	# of Cont	Depth Grab/ # of Comp Cont	Time I Sampled	Date Sampled	Matrix	ntification	Sample Identification
NaOH+Ascorbic Acid: SAPC	Z		<i>'</i>		1.6	emperature:	Corrected Temperature:			Total Containers:
Zn Acetate+NaOH: Zn	Z		de		X	Reading:	Temperature Reading:	No CALLE	als: Yes	Sample Custody Seals:
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	Z			P	2.0.	actor:	Correction Factor:	Yes No CHITA		Cooler Custody Seals:
NaHSO <sub>4</sub> : NABIS				arar	run	ar ID:	Thermometer ID:	No.		Samples Received Intact:
H₃PO₄: HP	I			nete	Yas No	Wet Ice:	Yes Char	Texap Blank:		SAMPLE RECEIPT
H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub> NaOH: Na	I			rs	/ed by 4:30pm	the lab, if received by 4:30pm				PO#:
HCL: HC HNO <sub>3</sub>	ī				lay received by	TAT starts the o		buju Naker	51.n.f	Sampler's Name:
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Other:	Deliverables: EDD 🔲 ADaPT 🗆	Delive	cdhcensult. co	000		Email: 1	59	616)470-8459	(919)	Phone:
UST 🗌 TRRP 📗 Level IV 🗀	Reporting: Level II 🗌 Level III 🔲 PST/UST 📗 TRRP 📗	Repor			City, State ZIP:			to: 60	Thornton	City, State ZIP:
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Client Information (Sub Contract Lab)	Sampler: N/A			Aller	Lab PM: Allen, Jodi L						7.0	Carrier N/A	Tracki	N Q	s):			890	COC No: 890-4478.1	
	Phone: N/A			E-Mail: Jodi.A	E-Mail: Jodi.Allen@et.eurofinsus.com	et.eurc	ofinsu	s.com			-100	State of Origin: Texas	Onigin	-				Page: Page	Page: Page 1 of 3	
Company: Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	ations R	equirec	(See	note):									-068 # doL	Job #: 890-7542-1	
Address: 1211 W. Florida Ave,	Due Date Requested: 1/7/2025	ä						, l	Analy	lysis F	Requested	est	ه ا					· P	Preservation Codes:	odes
City: Midland	TAT Requested (days):	ays): N/A			E13		$\dashv$	$\dashv$			_	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\neg$	21			
State, Zip. TX, 79701						I TPH											4011			
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C 04 (800 7542 4)	Alalas	13:10		C Solid	}	-	-	-	<	1	36	-	-	-	-					
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FS 03 (890-7542-3)	1/3/25	12:50 Central	G	Solid		×	×	×	×			_	_		_		-			
FS 04 (890-7542-4)	1/3/25	12:40 Central	G	Solid		×	×	×	×				_	-						
FS 05 (890-7542-5)	1/3/25	12:30 Central	ဝ	Solid		×	×	×	×				_		_		_			
FS 06 (890-7542-6)	1/3/25	12:20 Central	G	Solid		×	×	×	×								_			
FS 07 (890-7542-7)	1/3/25	13:15 Central	G	Solid		×	×	×	×			_					-			
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FS 09 (890-7542-9)	1/3/25	12:55 Central	G	Solid		×	×	×	×											
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC.	onment Testing South Cented above for analysis/test of the Central. LLC attention in	ral, LLC places s/matrix being a nmediately. If	s the ownersh analyzed, the all requested	ip of method, a samples must I accreditations	nalyte & a be shipper are curren	ccredita d back to t to date	tion co	mplian urofins	Enviro	our su	Ibcont Testin	act la Sout	orato Cen	nes nal Li	his sa	mple	hipm or ot	er in	forwarded unde structions will be Environment Te	der cha be prov
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nt is forwarded under chain-of-custody. If er instructions will be provided. Any chang fins Environment Testing South Central, L	This sample shipme LC laboratory or othed compliance to Euro	ontract laboratories. ting South Central, L stody attesting to sain	upon our subconvironment Test	mpliance urofins E the sign	ation co to the E e, retun	accredit ed back nt to dat	nalyte & ne shipp ne curre	hip of method, and samples must the accreditations a	es the ownersl g analyzed, the If all requested	ntral, LLC plac ts/matrix being immediately.	ant Testing South Ce above for analysis/tes entral, LLC attention	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/hests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC.
	1		×	×	×	×		Solid	G	15:40 Central	1/3/25	FS 13 (890-7542-18)
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							100		D	tays): N/A	TAT Requested (days):	City: Midland
Preservation Codes:		Requested	ysis	Anal						red:	Due Date Requested: 1/7/2025	Address: 1211 W. Florida Ave.
Job #: 890-7542-1			ite):	Accreditations Required (See note NELAP - Texas	Require	Accreditations Requ NELAP - Texas	Accred NELA					Company: Eurofins Environment Testing South Centr
Page: Page 2 of 3		State of Origin: Texas		s.com	ofinsu	get.eur	E-Mail: Jodi.Allen@et.eurofinsus.com	E-Mail: Jodi.A			Phone: N/A	
COC No: 890-4478.2		Carrier Tracking No(s): N/A				_	Lab PM: Allen, Jodi L	Allen, J			Sampler: N/A	Client Information (Sub Contract Lab)
Environment Testing												Carlsbad, NM 88220 Phone: 575-988-3199 Fax: 575-988-3199
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1089 N Canal St. **Eurofins Carlsbad** 

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**Chain of Custody Record** 

Client Information (Sub Contract Lab)	Sampler: N/A			Lab PM: Allen,	Lab PM: Allen, Jodi L					Cami N/A	Carrier Tracking No(s): N/A	g NO(s).		8 0	COC No: 890-4478.3
- 1	Phone: N/A			E-Mail:	E-Mail: Jodi.Allen@et.eurofinsus.com	et.eur	ofinsus	8		State of Texas	State of Origin: Texas			ु ज	Page: Page 3 of 3
Company: Eurofins Environment Testing South Centr					Accredi	Accreditations Required (See note): NELAP - Texas	Required	(See n	ìe):					8 Jo	Job #: 890-7542-1
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# **Login Sample Receipt Checklist**

Client: CDH Consulting

Job Number: 890-7542-1

SDG Number: LOCO HILLS

Login Number: 7542 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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

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# **Login Sample Receipt Checklist**

Client: CDH Consulting

Job Number: 890-7542-1

SDG Number: LOCO HILLS

List Source: Eurofins Midland List Creation: 01/07/25 08:20 AM

Login Number: 7542 List Number: 2 Creator: Lee, Randell

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

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**Environment Testing** 

# **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**

Ger 1/13

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

Laboratory Job ID: 890-7564-1

Project/Site: WESTALL LINE RELEASE

# **Table of Contents**

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# **Definitions/Glossary**

Client: CDH Consulting Job ID: 890-7564-1

Project/Site: WESTALL LINE RELEASE

#### **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.
HDI C/IC	

#### HPLC/IC

U Indicates the analyte was analyzed for but not detected.

# **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
≎	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)

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 Job ID: 890-7564-1 Project: WESTALL LINE RELEASE

**Eurofins Carlsbad** Job ID: 890-7564-1

#### 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.

Matrix: Solid

Lab Sample ID: 890-7564-1

Client: CDH Consulting Job ID: 890-7564-1

Project/Site: WESTALL LINE RELEASE

Client Sample ID: SW02 0-4

Date Collected: 01/10/25 08:14 Date Received: 01/10/25 15:30

Sample Depth: 0-4

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		01/13/25 08:01	01/13/25 11:42	-
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/13/25 08:01	01/13/25 11:42	
Toluene	<0.00202	U	0.00202		mg/Kg		01/13/25 08:01	01/13/25 11:42	
Xylenes, Total	< 0.00403	U	0.00403		mg/Kg		01/13/25 08:01	01/13/25 11:42	
n-Xylene & p-Xylene	< 0.00403	U	0.00403		mg/Kg		01/13/25 08:01	01/13/25 11:42	
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/13/25 08:01	01/13/25 11:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	130		70 - 130				01/13/25 08:01	01/13/25 11:42	
1,4-Difluorobenzene (Surr)	96		70 - 130				01/13/25 08:01	01/13/25 11:42	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
E ( LDTE)/	< 0.00403	II	0.00403		malka		· <del>· · · · · · · · · · · · · · · · · · </del>	01/13/25 11:42	-
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/13/23 11.42	
					mg/Kg			01/13/23 11.42	
lotal 81EX <mark>Method: SW846 8015 NM - Dic</mark> Analyte	esel Range (			MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Did	esel Range (	Organics ( Qualifier	DRO) (GC)	MDL		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH	esel Range ( Result <49.8	Organics ( Qualifier	DRO) (GC) RL 49.8	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Die Analyte	esel Range ( Result <49.8	Organics ( Qualifier	DRO) (GC) RL 49.8		Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Did Analyte Total TPH  Method: SW846 8015B NM - D Analyte  Gasoline Range Organics	esel Range ( Result <49.8	Organics ( Qualifier  U  Organics Qualifier Qualifier	DRO) (GC) RL 49.8  (DRO) (GC)		Unit mg/Kg			Analyzed 01/13/25 12:27	
Method: SW846 8015 NM - Did Analyte Fotal TPH  Method: SW846 8015B NM - Danalyte  Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Result <a href="#">&lt;49.8</a> <a href="#">Diesel Range Result <a href="#">&lt;49.8</a></a>	Organics ( Qualifier  U  Organics Qualifier Qualifier	DRO) (GC) RL 49.8  (DRO) (GC) RL		Unit mg/Kg Unit		Prepared 01/13/25 08:26	Analyzed 01/13/25 12:27 Analyzed	Dil Fa
Method: SW846 8015 NM - Did Analyte Total TPH  Method: SW846 8015B NM - Danalyte  Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	esel Range (Result <49.8 Result <49.8	Organics ( Qualifier U  Organics Qualifier U*1 U*+*1	DRO) (GC) RL 49.8  (DRO) (GC) RL 49.8		Unit mg/Kg  Unit mg/Kg		Prepared 01/13/25 08:26 01/13/25 08:26	Analyzed 01/13/25 12:27  Analyzed 01/13/25 12:27	Dil Fa
Method: SW846 8015 NM - Did Analyte Fotal TPH  Method: SW846 8015B NM - D Analyte  Gasoline Range Organics GRO)-C6-C10	Result <a href="#">&lt;49.8</a> <a href="#">Oiesel Range Result <a href="#">&lt;49.8</a> <a href="#">&lt;49.8</a> <a href="#">&lt;49.8</a></a>	Organics ( Qualifier U  Organics Qualifier U*1 U*+*1 U	DRO) (GC) RL 49.8  (DRO) (GC) RL 49.8  49.8		Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/13/25 08:26 01/13/25 08:26	Analyzed 01/13/25 12:27  Analyzed 01/13/25 12:27  01/13/25 12:27	Dil Fa
Method: SW846 8015 NM - Did Analyte Fotal TPH  Method: SW846 8015B NM - D Analyte  Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Dil Range Organics (Over C28-C36)	Result <49.8  Olesel Range Result <49.8 <a href="#">Result &lt;49.8</a> <49.8 <49.8	Organics ( Qualifier U  Organics Qualifier U*1 U*+*1 U	DRO) (GC) RL 49.8  (DRO) (GC) RL 49.8  49.8  49.8		Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/13/25 08:26 01/13/25 08:26 01/13/25 08:26	Analyzed 01/13/25 12:27  Analyzed 01/13/25 12:27  01/13/25 12:27  01/13/25 12:27	Dil Fa

RL

10.1

Result Qualifier

143

**Eurofins Carlsbad** 

MDL Unit

mg/Kg

D

Prepared

Analyzed

01/13/25 10:50

Dil Fac

# **Surrogate Summary**

Client: CDH Consulting Job ID: 890-7564-1

Project/Site: WESTALL LINE RELEASE

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			t Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(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-Bromofluorob	enzene (Surr)			
DFBZ = 1,4-Difluorobe	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		1CO1	OTPH1				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
890-7564-1	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				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

**Eurofins Carlsbad** 

Released to Imaging: 8/28/2025 1:30:57 PM

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Client: CDH Consulting Job ID: 890-7564-1

Project/Site: WESTALL LINE RELEASE

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** 

	MB	MB							
Analyte	Result	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
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

Lab Sample ID: LCS 880-100108/1-A

Matrix: Solid

Analysis Batch: 100111

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

**Client Sample ID: Lab Control Sample** 

01/13/25 08:01 01/13/25 11:00

01/13/25 08:01 01/13/25 11:00

Prep Type: Total/NA Prep Batch: 100108

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 70 - 130 Benzene 0.100 0.1189 mg/Kg 119 Ethylbenzene 0.100 0.1163 mg/Kg 70 - 130 116 Toluene 0.100 0.1138 mg/Kg 70 - 130 114 0.200 m-Xylene & p-Xylene 0.2387 mg/Kg 119 70 - 130o-Xylene 0.100 0.1202 120 70 - 130 mg/Kg

LCS LCS

127

91

Surrogate	%Recovery	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

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.1169 mg/Kg 117 70 - 130 35 Ethylbenzene 0.100 0.1148 mg/Kg 115 70 - 130 35 Toluene 0.100 0.1112 mg/Kg 111 70 - 130 2 35 m-Xylene & p-Xylene 0.200 0.2328 mg/Kg 70 - 130 2 35 116 0.100 0.1178 118 70 - 130 35 o-Xylene mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

**Eurofins Carlsbad** 

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Client: CDH Consulting Job ID: 890-7564-1

Project/Site: WESTALL LINE RELEASE

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

Lab Sample ID: MB 880-100114/1-A

Lab Sample ID: LCS 880-100114/2-A

**Matrix: Solid Analysis Batch: 100138**  **Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 100114

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		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

MB MB

Surrogate	%Recovery 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

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA Prep Batch: 100114** 

**Analysis Batch: 100138** LCS LCS Spike %Rec Analyte Added Result Qualifier Unit Limits D %Rec 1000 887.3 89 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 840.1 mg/Kg 84 70 - 130

C10-C28)

**Matrix: Solid** 

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 90 70 - 130 70 - 130 o-Terphenyl 84

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

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

LCSD LCSD

Surrogate	%Recovery	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 **Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 100115** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/13/25 09:40	1

Client: CDH Consulting Job ID: 890-7564-1

Project/Site: WESTALL LINE RELEASE

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-100105/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 100115

7 maryolo Batom 100110									
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	 250	244.4		mg/Kg		98	90 - 110	 	-

Lab Sample ID: LCSD 880-100105/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 100115** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

<b>Lab Sample ID</b> 890-7564-1	Client Sample ID SW02 0-4	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
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**

<b>Lab Sample ID</b> 890-7564-1	Client Sample ID SW02 0-4	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 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

<b>Lab Sample ID</b> 890-7564-1	Client Sample ID SW02 0-4	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
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

<b>Lab Sample ID</b> 890-7564-1	Client Sample ID SW02 0-4	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 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

**Eurofins Carlsbad** 

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# **Lab Chronicle**

Client: CDH Consulting Job ID: 890-7564-1

Project/Site: WESTALL LINE RELEASE

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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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 Job ID: 890-7564-1

Project/Site: WESTALL LINE RELEASE

# **Laboratory: Eurofins Midland**

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

uthority	Progra	am	Identification Number	<b>Expiration Date</b>
exas	NELA	)	T104704400	06-30-25
The following analyte	s are included in this repo	rt, but the laboratory is r	not certified by the governing author	ity. This list may ind
,	s are included in this repo does not offer certification	,	not certified by the governing author	ity. This list may inc
,	•	,	not certified by the governing author  Analyte	ity. I his list may ind
for which the agency	does not offer certification	•	, , ,	ity. This list may ind

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# **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

**Environment Testing** 

# **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 Little Rock, AR (501) 224-5060

Work Orc	
890-7564 Chain of Custody	

		Page of	]
	Work Order Comments	omments	
	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	ields 🗌 RRC 📗 Superfund	Ō
	State of Project:		
	Reporting: Level II  Level III PST/UST TRRP Level IV	UST 🗌 TRRP 📗 Level IV	
	Deliverables: EDD	Other:	
SRE	S REQUEST	Preservative Codes	
	7	None: NO DI Water: H <sub>2</sub> O	Ö

City, State ZIP:

City, State ZIP:

Address: Company Name:

Project Manager: Company Name: Address:

At Cypress

Michael Wicker

Bill to: (if different)

CDH Consulting

Al Ob. As Ba Be B Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  RA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  RA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471  Ra Sb As Ba Be Cd Cr Co Cu Pb Mn Mi Mn Mi Mi Mi Mn Mi	Total 200.7 (5010 200.8 (5020)
Mg Mu Mo Ni K Se Au SiOs Na Si Ti Si ti Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / are due to circumstances beyond the control are will be enforced unless previously negotiated.  ture) Received by: (Signature)	Total 200.7 / 5010 200.5 / 5020:  Total 200.7 / 5010 200.5 / 5020:  Total 200.7 / 5010 200.5 / 5020:  RICRA 13PPM Texas 11 At 3b As role Method(s) and Metal(s) to be analyzed  TCLP / SPLP 6010: 8RCRA Sb As a valid purchase order from client company service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losse surrolfins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submit Relinquished by: (Signature)  Relinquished by: (Signature)  Reperiored by: (Signature)
	Tetal 200.7 / 6010 200.8 / 6020:  RCRA 19PPM Texas 11 At 9b As role Method(s) and Metal(s) to be analyzed  TCLP / SPLP 6010: 8RCRA Sb As a valid purchase order from client company service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losse submit a xence. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submit
	Total 200.7 / 5010 200.8 / 5020: 9RCRA 13PPM Taxas 11 At 3b As role Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As
	200.87 6930: 97-ONA 107-7M Toxos 11
Y	SWOD-0'-4' 5 HOBB BOH 0-4'C 1 X
Sample Comments	Sample Identification  Matrix Sampled Sampled Depth Grab/ # of Comp Cont
1-	Total Containers:   Corrected Temperature:   A. A. y
Zn Acetate+NaOH: Zn	Sample Custody Seals: Yes No (N/A ) emperature Reading: A. S
ට Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	Cooler Custody Seals: Yes No N/A Correction Factor:
NaHSO4: NABIS	Samples Received Intact: (Yes) No Thermometer ID:
H <sub>3</sub> PO <sub>4</sub> : HP	SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Yes No
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na	the lab, if received by 4:30pm
HCL: HC HNO <sub>3</sub>	Sampler's Name: Elizabeth, Naika TAT starts the day received by
Cool: Cool MeOH: Me	Project Location: Loco Holls WM Due Date: 1-13-2025
None: NO DI Water: H <sub>2</sub> O	Project Number: Routine KI Rush Code
ANALYSIS REQUEST Preservative Codes	Project Name: Westail Like Welease Turn Around
	Trans.   W   W   100 3 HD   Email live   CCC   CC   W   CCC   CCC

Revised Date: 08/25/2020 Rev. 2020.2

# **Login Sample Receipt Checklist**

Client: CDH Consulting Job Number: 890-7564-1

Login Number: 7564 **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	

Released to Imaging: 8/28/2025 1:30:57 PM

# **Login Sample Receipt Checklist**

Job Number: 890-7564-1 Client: CDH Consulting

Login Number: 7564 **List Source: Eurofins Midland** List Number: 2 List Creation: 01/13/25 08:12 AM

Creator: Laing, Edmundo

Comment Question **Answer** 

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** 

# **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

Project/Site: WESTALL LINE RELEASE

Client: CDH Consulting

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

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# **Definitions/Glossary**

Client: CDH Consulting Job ID: 890-7712-1 Project/Site: WESTALL LINE RELEASE

SDG: LOCO HILLS

**Qualifiers** 

**GC VOA** Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

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

HPLC/IC

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

ğ 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

Duplicate Error Ratio (normalized absolute difference) **DER** 

**Dilution Factor** Dil Fac

Detection Limit (DoD/DOE) DΙ

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)

Method Detection Limit MDL ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit** 

Presumptive **PRES** 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

Job ID: 890-7712-1

Project: WESTALL LINE RELEASE

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** 

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# **Client Sample Results**

Client: CDH Consulting

Job ID: 890-7712-1 Project/Site: WESTALL LINE RELEASE SDG: LOCO HILLS

Lab Sample ID: 890-7712-1

**Matrix: Solid** 

Date Collected: 02/22/25 14:28 Date Received: 02/24/25 15:30

**Client Sample ID: BACKFILL** 

Sample Depth: 0.5 - 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	$\overline{U}$	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 BTE	X Calculat	ion						
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
	_	•	DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
Analyte	_	Qualifier	, , ,	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/25/25 11:40	Dil Fac
<b>Analyte</b> Total TPH	<50.0	Qualifier U	<b>RL</b> 50.0	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - D	Result <50.0	Qualifier U	<b>RL</b> 50.0	MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH  Method: SW846 8015B NM - Description  Analyte  Gasoline Range Organics	Result <50.0	Qualifier U Organics Qualifier	RL 50.0 (DRO) (GC)		mg/Kg	— <u>=</u>	Prepared	02/25/25 11:40	1
Analyte Total TPH  Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Diesel Range Result	Qualifier U  Organics Qualifier U	70.0 (DRO) (GC) RL		mg/Kg Unit	— <u>=</u>	Prepared 02/24/25 17:22	02/25/25 11:40  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - E Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0  Diesel Range Result <50.0	Qualifier U  Organics Qualifier U	RL 50.0 (GC) RL 50.0		mg/Kg  Unit mg/Kg	— <u>=</u>	Prepared 02/24/25 17:22 02/24/25 17:22	02/25/25 11:40  Analyzed 02/25/25 11:40	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result   <50.0	Qualifier U  Organics Qualifier U  U  Qualifier	RL 50.0  (DRO) (GC) RL 50.0  50.0  Limits		mg/Kg  Unit mg/Kg mg/Kg	— <u>=</u>	Prepared 02/24/25 17:22 02/24/25 17:22 02/24/25 17:22 Prepared	02/25/25 11:40  Analyzed 02/25/25 11:40  02/25/25 11:40  02/25/25 11:40  Analyzed	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result   <50.0	Qualifier U  Organics Qualifier U  U	RL 50.0  (DRO) (GC) RL 50.0  50.0		mg/Kg  Unit mg/Kg mg/Kg	— <u>=</u>	Prepared 02/24/25 17:22 02/24/25 17:22 02/24/25 17:22	02/25/25 11:40  Analyzed 02/25/25 11:40  02/25/25 11:40  02/25/25 11:40  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <50.0	Qualifier U  Organics Qualifier U  U  Qualifier	RL 50.0  (DRO) (GC) RL 50.0  50.0  Limits		mg/Kg  Unit mg/Kg mg/Kg	— <u>=</u>	Prepared 02/24/25 17:22 02/24/25 17:22 02/24/25 17:22 Prepared 02/24/25 17:22	02/25/25 11:40  Analyzed 02/25/25 11:40  02/25/25 11:40  02/25/25 11:40  Analyzed	Dil Face 1 1 1 Dil Face
Analyte Total TPH  Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <50.0	Qualifier U  Organics Qualifier U  U  U  Qualifier S1+	RL 50.0 (DRO) (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg  Unit mg/Kg mg/Kg	— <u>=</u>	Prepared 02/24/25 17:22 02/24/25 17:22 02/24/25 17:22 Prepared 02/24/25 17:22	02/25/25 11:40  Analyzed 02/25/25 11:40  02/25/25 11:40  02/25/25 11:40  Analyzed 02/25/25 11:40	Dil Face 1 1 1 Dil Face 1
Method: SW846 8015 NM - Dic Analyte Total TPH  Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl  Method: EPA 300.0 - Anions, Analyte	Result   <50.0	Qualifier U  Organics Qualifier U  U  U  Qualifier S1+	RL 50.0 (DRO) (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg  Unit mg/Kg mg/Kg mg/Kg	— <u>=</u>	Prepared 02/24/25 17:22 02/24/25 17:22 02/24/25 17:22 Prepared 02/24/25 17:22	02/25/25 11:40  Analyzed 02/25/25 11:40  02/25/25 11:40  02/25/25 11:40  Analyzed 02/25/25 11:40	Dil Face 1 1 1 Dil Face 1

# **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)					
		BFB1	DFBZ1				
Lab Sample ID	Client Sample ID	(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-Bromofluorobe	enzene (Surr)						
DFBZ = 1,4-Difluorober	nzene (Surr)						

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		1CO1	OTPH1				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
890-7712-1	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				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Lab Sample ID: LCS 880-103561/1-A

Lab Sample ID: LCSD 880-103561/2-A

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 103617** 

**Analysis Batch: 103617** 

**Analysis Batch: 103617** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

**Prep Batch: 103561** 

	MB	MB							
Analyte	Result	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
	MR	MR							

MB MB

Surrogate	%Recovery 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

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Batch: 103561** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1032 103 70 - 130 mg/Kg Ethylbenzene 0.100 0.1026 mg/Kg 70 - 130 103 Toluene 0.100 0.1026 mg/Kg 103 70 - 130 0.200 m-Xylene & p-Xylene 0.1918 mg/Kg 96 70 - 130 o-Xylene 0.100 0.1061 mg/Kg 106 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

**Prep Batch: 103561** 

	Spike	LCSD LCSD			%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits	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

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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** 

Matrix: Solid

Analysis Batch: 103632

**Analysis Batch: 103632** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

**Prep Batch: 103582** 

	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		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
	MB	MB							

Surrogate	%Recovery	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

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

**Prep Batch: 103582** 

		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Gasoline Range Organics (GRO)-C6-C10	1000	1044		mg/Kg		104	70 - 130	
- 1	Diesel Range Organics (Over C10-C28)	1000	939.6		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	112	70 - 130
o-Terphenyl	100	70 - 130

**Client Sample ID: Lab Control Sample Dup** 

Lab Sample ID: LCSD 880-103582/3-A **Matrix: Solid** 

Lab Sample ID: LCS 880-103582/2-A

**Analysis Batch: 103632** 

**Prep Type: Total/NA Prep Batch: 103582** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

LCSD LCSD

Surrogate	%Recovery	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 **Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 103651

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MB MB

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			02/25/25 18:57	1

Analyte

Chloride

# **QC Sample Results**

Client: CDH Consulting Job ID: 890-7712-1 Project/Site: WESTALL LINE RELEASE SDG: LOCO HILLS

# Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-103611/2-A				CII	ent Sai	mpie iu	: Lab Control Sample
Matrix: Solid							<b>Prep Type: Soluble</b>
Analysis Batch: 103651							
-	Spike	LCS	LCS				%Rec
Δnalyte	hahhΔ	Result	Qualifier	Unit	D	%Rec	l imits

Chloride	250	249.7	mg/Kg	100	90 - 110	
Lab Sample ID: LCSD 880-103611/3-A Matrix: Solid Analysis Batch: 103651			Client Samp	le ID: Lab	Control Sar Prep Type	
Analysis Batch. 100001	Spike	LCSD LCSD			%Rec	RPD

Result Qualifier

250.5

Unit

mg/Kg

D %Rec

100

Limits

90 - 110

RPD

0

Limit

Added

250

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# **QC Association Summary**

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

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

# **GC VOA**

# **Prep Batch: 103561**

<b>Lab Sample ID</b> 890-7712-1	Client Sample ID  BACKFILL	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
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**

<b>Lab Sample ID</b> 890-7712-1	Client Sample ID  BACKFILL	Prep Type Total/NA	Solid	Method 8021B	Prep Batch 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 890-7712-1	Client Sample ID  BACKFILL	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
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**

<b>Lab Sample ID</b> 890-7712-1	Client Sample ID  BACKFILL	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 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

Lab Sample ID: 890-7712-1

Matrix: Solid

Client Sample ID: BACKFILL

Date Collected: 02/22/25 14:28

Date Received: 02/24/25 15:30

Lab Sar

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

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# **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	Progr	am	Identification Number	Expiration Date	
exas	NELA	<b>)</b>	T104704400	06-30-25	
	•	,	not certified by the governing authori	ity. This list may inclu	
for which the agency	•	,	not certified by the governing authori Analyte	ty. This list may inclu	
for which the agency	does not offer certification		, , ,	ty. This list may incl	

### **Method Summary**

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7712-1

SDG: LOCO HILLS

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
800.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Ol 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

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# **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'

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

		4	184 15	عاد	Share S	8	
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	nature)	Received by: (Signature)	Relinquished by: (Signature)	Relinquished I
=	<ul> <li>it assigns standard terms and conditions are due to circumstances beyond the control ms will be enforced unless previously negotiated.</li> </ul>	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofine Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofine 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 Eurofine Xenco. A minimum charge of \$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofine Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	it company to Eurofins Xe ir any losses or expenses iple submitted to Eurofins	l purchase order from elle sume any responsibility fo charge of \$5 for each sar	shment of samples constitutes a vall r the cost of samples and shall not a 0 will be applied to each project and	s document and relinqui nco will be liable only fo inimum charge of \$85.04	Notice: Signature of thi of service. Eurofins Xe of Eurofins Xenco. An
71 Sn U V Zn / 7470 / 7471	2 Na Sr 1 / 245.1	Cr Co Cu Fe Pb		CRA 13PPM Texas 11 AITCLP / SPLP 6010: 8RCRA	8R0	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) and I
					_		
				0,5-21 0 1	86: HI Scar-EG-16 5		Backfill
Sample Comments	ω		I	Depth Grab/ # of	Matrix Sampled Sampled	Sample Identification	Sample Ide
NaOH+Ascorbic Acid: SAPC			<u>м</u> .	Ø	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn		890-7712 Chain of Custody	84	2.0.	N/A Temperature Reading:	es No	Sample Custody Seals:
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> . NaSO <sub>3</sub>	Na <sub>2</sub> S <sub>2</sub> C		+	<u> </u>	(N/A) Correction Factor:	<u>خ</u> ا	Cooler Custody Seals:
NaHSO <sub>4</sub> : NABIS	NaHSO		000	arame		Y98	Samples Received Intact:
H	H, PO.: HP				V V	$\dashv$	CAMBIE DECI
	H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>			the lab, if received by 4:30pm		PACEL VOCAL	PO#:
Cool MeOH: Me	Cool: Cool			Due Date: 1-25-2025		Loco Huls	Project Location:
NO DI Water: H <sub>2</sub> O	None: NO		8 9	Rush Code	Routine		Project Number:
Preservative Codes		ANALYSIS REQUEST		Turn Around	Release	Mustall Line	Project Name:
Other:	Deliverables: EDD ADaPT		@cdhconsulticom	muicker	- 8459   Email:	1616-970.	Phone:
☐ TRRP ☐ Level IV☐	] Level III	Repo		City, State ZIP:			City, State ZIP:
	State of Project:	State		Address:			Address:
RRC Superfund	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐			Company Name:	operating		Company Name:
ents	Work Order Comments	Consulting	eDH Con	Bill to: (if different)	wicker	Michael	Project Manager:
ige of	Page						
		oad, NM (575) 988-3199 224-5060	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NA			
	Work Order No:	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	X (915) 585-3443, Lubb	EL Paso, 1	<b>Environment Testing</b>	En	
		Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	(432) 704-5440, San An	Midland, TX			
		las TX (214) 902-0300	Houston TX (281) 240-4200 Dallas TX (214) 902-0300	Houston		fine	Purofins

### **Login Sample Receipt Checklist**

Client: CDH Consulting

Job Number: 890-7712-1

SDG Number: LOCO HILLS

Login Number: 7712 List Source: Eurofins Carlsbad

List Number: 1 Creator: Bruns, Shannon

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

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**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Michael Wicker CDH Consulting 9446 Clermont St, Thornton, Colorado 80229

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

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

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### **Definitions/Glossary**

Job ID: 890-7773-1 Client: CDH Consulting Project/Site: WESTALL LINE RELEASE

SDG: LOCO HILLS

**Qualifiers** 

**GC VOA** 

Qualifier **Qualifier Description** 

MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

S1-Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

**PQL Practical Quantitation Limit** 

**PRES** Presumptive QC **Quality Control** 

**RER** Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

**TNTC** Too Numerous To Count

### **Case Narrative**

Client: CDH Consulting Job ID: 890-7773-1 Project: WESTALL LINE RELEASE

**Eurofins Carlsbad** Job ID: 890-7773-1

### 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.

### **Client Sample Results**

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

**Client Sample ID: TOPSOIL** 

Date Collected: 03/04/25 09:32

SDG: LOCO HILLS

Job ID: 890-7773-1

Lab Sample ID: 890-7773-1

Matrix: Solid

Date Received: 03/05/25 13:40 Sample Depth: 3"-9"

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

Michiga. IAL GOT Total BTEX - Tota	II DIEK Gail	Julution						
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 Ra	ange Organi	ics (DRO) (G	iC)					
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 - Dies	el Range Orga	inics (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-Terpnenyi	89	70 - 130		•	03/05/25 20:25	03/06/25 02:01	7
Method: EPA 300.0 - Anions, Ion Chroma	atography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

10.0 03/06/25 17:19 Chloride 127 mg/Kg **Client Sample ID: BACKFILL** Lab Sample ID: 890-7773-2

Date Collected: 03/04/25 09:48 Date Received: 03/05/25 13:40

Sample Depth: 2.5'-3'

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)			70 - 130				03/05/25 18:00	03/06/25 12:23	

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**Matrix: Solid** 

### **Client Sample Results**

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-7773-1

SDG: LOCO HILLS

Lab Sample ID: 890-7773-2

Matrix: Solid

**Client Sample ID: BACKFILL** 

Date Collected: 03/04/25 09:48 Date Received: 03/05/25 13:40

Sample Depth: 2.5'-3'

Method: SW846 8021B	<ul> <li>Volatile Organic Compound</li> </ul>	ls (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

I Method: IAL SUPTOM DTEX - IOM DTEX C	Method: TAL SOP Total BTEX - Total BTEX Calculati	on

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		ma/Ka			03/06/25 02:01	1

Method: SW846 8015B	NM - Diesel Rand	ne Organics	(DRO)	(GC)
Method. 344040 00 13D	IAIM - DIESEL IZALI	ge Organics	(DICO)	(90)

		(,	( /					
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	%Pacayary	Qualifier	l imite			Propared	Analyzod	Dil Eac

Surrogate	%Recovery G	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 Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(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	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
o Sample ID	Client Sample ID	(70-130)	(70-130)	
7773-1	TOPSOIL	97	89	
-7773-2	BACKFILL	77	81	
S 880-104524/2-A	Lab Control Sample	118	105	
880-104525/2-A	Lab Control Sample	100	98	
D 880-104524/3-A	Lab Control Sample Dup	118	105	
D 880-104525/3-A	Lab Control Sample Dup	100	98	
880-104524/1-A	Method Blank	83	76	
880-104525/1-A	Method Blank	69 S1-	72	

**Surrogate Legend** 

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

### **QC Sample Results**

Client: CDH Consulting Job ID: 890-7773-1 Project/Site: WESTALL LINE RELEASE 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** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/25 18:00	03/06/25 11:40	
m-Xylene & p-Xylene	< 0.00400	U	0.00400		mg/Kg		03/05/25 18:00	03/06/25 11:40	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	

MB MB

Surrogate	%Recovery	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** 

	<b>Spike</b>	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%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	

LCS LCS

Surrogate	%Recovery 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** 

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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	

LCSD LCSD

Surrogate	%Recovery	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** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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

Lab Sample ID: 890-7773-1 MSD

**Matrix: Solid** 

Analysis Batch: 104558

**Client Sample ID: TOPSOIL** 

Prep Type: Total/NA

**Prep Batch: 104555** 

	Sample	Sample	<b>эріке</b>	IVIS	IVIO				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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	

MS MS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

**Client Sample ID: TOPSOIL** 

**Matrix: Solid** Prep Type: Total/NA **Prep Batch: 104555** Analysis Batch: 104558

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.100	0.05621	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

MSD MSD

Surrogate	%Recovery	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** 

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	i	mg/Kg		03/05/25 20:24	03/05/25 18:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	1	mg/Kg		03/05/25 20:24	03/05/25 18:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	1	mg/Kg		03/05/25 20:24	03/05/25 18:22	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	03/05/25 20:2	03/05/25 18:22	1
o-Terphenyl	76		70 - 130	03/05/25 20:2	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

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1176		mg/Kg		118	70 - 130	 
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1140		mg/Kg		114	70 - 130	
C10-C28)								

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

Lab Sample ID: LCSD 880-104524/3-A

**Matrix: Solid** 

Analysis Batch: 104413

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 104524

LCS LCS

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 118 70 - 130 o-Terphenyl 105 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104524

**Matrix: Solid** Analysis Batch: 104413 Spike LCSD LCSD %Rec

Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1152 115 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1159 mg/Kg 116 70 - 1302 20

C10-C28)

**Matrix: Solid** 

Analysis Batch: 104415

LCSD LCSD

MD MD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	105		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 104525** 

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		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 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 03/05/25 18:22 1-Chlorooctane 69 S1-70 - 130 03/05/25 20:27 72 70 - 130 03/05/25 20:27 03/05/25 18:22 o-Terphenyl

Lab Sample ID: LCS 880-104525/2-A

Lab Sample ID: MB 880-104525/1-A

**Matrix: Solid** 

Analysis Batch: 104415

**Client Sample ID: Lab Control Sample** 

**Prep Batch: 104525** 

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	942.4		mg/Kg		94	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1065		mg/Kg		106	70 - 130
C10-C28)							

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	98		70 - 130

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RPD

Prep Type: Total/NA

### QC Sample Results

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

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

Lab Sample ID: LCSD 880-104525/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 104415

Analysis Batch: 104415							Prep	Batch: 1	04525
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	952.6		mg/Kg		95	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1081		mg/Kg		108	70 - 130	2	20

C10-C28)

	LCSD LCSD			
Surrogate	%Recovery G	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 Client Sample ID: Method Blank

**Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 104584

мв мв Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <10.0 10.0 mg/Kg 03/06/25 11:52

Lab Sample ID: LCS 880-104570/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** Analysis Batch: 104584

Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 237.9 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-104570/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 104584

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 239.4 96 90 - 110 20 mg/Kg

### **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 Sam	ple ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-777	3-1	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 88	80-104524/3-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	

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### **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** 

Date Collected: 03/04/25 09:32 Date Received: 03/05/25 13:40 Lab Sample ID: 890-7773-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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** 

Date Collected: 03/04/25 09:48

Date Received: 03/05/25 13:40

Lab Sample ID: 890-7773-2

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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	Progra	ım	Identification Number	Expiration Date
Texas	NELAF	)	T104704400	06-30-25
,	are included in this report, bu	t the laboratory is not certif	fied by the governing authority. This list	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
		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

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### 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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	Environment Testing Malan Xenco E.Pa	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 <u>Withard D. C. (282) 701 5 440, Self-Antonior, TX (210) 509-3334</u> EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Work Order No:	
Michael Honge		10500) HO	www.xenco.com Page I	oto
Company Name: Mr. UM Colored And			Program: UST/PST   PRP   Brownfields RRC	Superfund
City, State ZIP:	City, State ZIP:		Reporting: Level III Level III PST/UST TRRP	Level IV
Phone: 616-970.8459	Email: MWICKE	ere colliconsultion	Deliverables: EDD ☐ ADaPT ☐ Other:	
Project Name: [1, )estal! (in ) Pelase	Turn Around	ANALYSIS REQUEST	JEST Preservative Codes	e Codes
er:	Rour	Pres.	None: NO	DI Water: H <sub>2</sub> O
Project Location: LOCO HULS NW	Due Date: 3/6/2025		Cool: Cool	MeOH: Me
Sampler's Name: Dakootah Lueth	TAT starts the day received by the lab, if received by 4:30pm		HCL: HC	HNO 3: HN
SAMPI FRECEIPT Temp Blank: Yes (A)	Wet Ice: Yes No		H <sub>3</sub> PO <sub>4</sub> :HP	
tact: (Yek No Thern	), - 	eme	NaHSO 4: NABIS	
Yes No (NA			Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO	
: Yes No	Temperature Reading: 4.2	178	Zn Acetate+NaOH: Zn	4: Zn
Total Containers: Corrected	Corrected Temperature:		NaOH+Ascorbic Acid: SAPC	Acid: SAPC
Sample Identification Matrix	Time Depth	# of	f Custody Sample Comments	mments
	5ampled 54.37			
OV	1.00.10			
13alli 0 374 (cc)	07:48 835-5			
Total 200.7 / 6010 200.8 / 6020: (Circle Method(s) and Metal(s) to be analyzed	8RCRA 13PPM Texas 11 A TCLP / SPLP 6010 : 8RCR	I Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb M A Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni	g Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn Se Ag Tl U Hg: 1631/245.1/7470 /7471	
ice: Signature of this document and relinquishment of samples constitutes revice. Eurofins Xenco will be liable only for the cost of samples and shall unofins Xenco. A minimum charge of \$85.00 will be applied to each project	a valid purchase order from client compa. ot assume any responsibility for any losse: and a charge of \$5 for each sample subn	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 Sence 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 such many and the control of such any service. The client is such losses are due to circumstances beyond the control of such any service. The client is such any service and service and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ms and conditions yond the control is previously negotiated.	
Relinquished by: (Signature)	Regeived by: (Signature)	Date/Time Relinquished by: (Signature)	eceived by: (Signature)	Date/Time
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**Eurofins Carlsbad** 

1089 N Canal St.

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# Chain of Custody Record

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**Environment Testing** 

State, Zip: TX, 79701 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/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC aboratory 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. Sample Identification - Client ID (Lab ID) Midland Possible Hazard Identification BACKFILL (890-7773-2) WESTALL LINE RELEASE 432-704-5440(Tel) Eurofins Environment Testing South Centr Carlsbad, NM 88220 Phone: 575-988-3199 Fax: 575-988-3199 eliverable Rec TOPSOIL (890-7773-1) 1211 W. Florida Ave shipping/Receiving Client Information (Sub Contract Lab) elinquished by: roject Name Custody Seals Intact: npty Kit confirmed Yes ∆ No Custody Seal No. III, IV, Other (specify) 89000037 SSOW# NA # Phone N/A Sampler N/A Primary Deliverable Rank: N/A TAT Requested (days): Due Date Requested: 3/6/2025 Date/Time Sample Date 3/4/25 3/4/25 Sample Central Central 09:48 09:32 ×. G=grab) (C=comp, Sample Preservation Code: Type G G Company Company Matrix Solid Solid E-Mail: Lab PM: Jodi.Allen@et.eurofinsus.com Allen, Jodi L Field Filtered Sample (Yes or No) Time NELAP - Texas Accreditations Required (See note) Perform MS/MSD (Yes or No) Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Special Instructions/QC Requirements Received by: 8015MOD\_NM/8015NM\_S\_Prep (MOD) Full TPH Cooler Temperature(S) & and Other Remarks Received by: × × × 8015MOD\_Calc × × × 300\_ORGFM\_28D/DI\_LEACH Chloride 8021B/5035FP\_Calc (MOD) BTEX - LL × × Analysis Requested × × Total\_BTEX\_GCV Texas N State of Origin Carrier Tracking No(s) of Shipme Date/Time **Total Number of containers** Page: Page 1 of 1 COC No: 890-4693.1 Preservation Codes: 890-7773-1 0080 Special Instructions/Note: Ver: 10/10/2024 Company Months

### **Login Sample Receipt Checklist**

Client: CDH Consulting

Job Number: 890-7773-1

SDG Number: LOCO HILLS

Login Number: 7773 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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

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### **Login Sample Receipt Checklist**

Client: CDH Consulting Jo

Job Number: 890-7773-1

SDG Number: LOCO HILLS

Login Number: 7773

List Source: Eurofins Midland
List Number: 2

List Creation: 03/06/25 08:49 AM

Creator: Laing, Edmundo

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

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<6mm (1/4").

**Environment Testing** 

# **ANALYTICAL REPORT**

# 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 1

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Laboratory Job ID: 890-7983-1

Client: CDH Consulting Project/Site: WESTALL WATER LINE

# **Table of Contents**

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### **Definitions/Glossary**

Job ID: 890-7983-1 Client: CDH Consulting

Project/Site: WESTALL WATER LINE

**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** 

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCI MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

**PRES** Presumptive QC **Quality Control** 

Relative Error Ratio (Radiochemistry) RER

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) Toxicity Equivalent Quotient (Dioxin) **TEQ** 

**TNTC** Too Numerous To Count

**Eurofins Carlsbad** 

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### **Case Narrative**

Client: CDH Consulting Job ID: 890-7983-1 Project: WESTALL WATER LINE

**Eurofins Carlsbad** Job ID: 890-7983-1

### 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.

Job ID: 890-7983-1

Project/Site: WESTALL WATER LINE

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

Client: CDH Consulting

	Method: EPA 300.0 - Anions, Ion Chroi	matograp	hy - Soluble						
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	125	F1	9.98	mg/Kg			04/22/25 04:40	1

Lab Sample ID: 890-7983-2 Client Sample ID: BF01@1.25-1.75

Date Collected: 04/16/25 07:49 **Matrix: Solid** 

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - 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 Chro	omatograp	hy - 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 C	hromatography - Sol	luble						
Analyte	Result Qualifier	r RL	MDL U	Unit D	)	Prepared	Analyzed	Dil Fac
Chloride	121	10.0	r	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 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

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 Cl	hromatograph	ny - 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 Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion C	hromatography - Solut	ole					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108	9.94	mg/Kg			04/22/25 05:52	1

**Eurofins Carlsbad** 

**Matrix: Solid** 

Matrix: Solid

### Client Sample Results

Job ID: 890-7983-1 Client: CDH Consulting

Project/Site: WESTALL WATER LINE

Lab Sample ID: 890-7983-8 Client Sample ID: BF02@3.25-3.75

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

Lab Sample ID: 890-7983-9 Client Sample ID: BF03@0.25-0.75

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 D Analyzed Dil Fac Unit Prepared Chloride 9.92 04/22/25 06:06 210 mg/Kg

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 04/22/25 06:13 mg/Kg

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 Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac 158 F1 10.0 04/22/25 06:20 Chloride mg/Kg

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

Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac Chloride 332 10.1 mg/Kg 04/22/25 06:42

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 10.1 04/22/25 06:49 Chloride 144 mg/Kg

Client Sample ID: BF04@1.25-1.75 Lab Sample ID: 890-7983-14

Date Collected: 04/16/25 08:52 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 04/22/25 07:11 mg/Kg

**Eurofins Carlsbad** 

**Matrix: Solid** 

4/22/2025

Job ID: 890-7983-1

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

Client: CDH Consulting Project/Site: WESTALL WATER LINE

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

Client Sample ID: BF04@3.25-3.75

Lab Sample ID: 890-7983-16 **Matrix: Solid** 

Date Collected: 04/16/25 09:08 Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL D Analyzed Dil Fac Unit Prepared Chloride 142 10.0 04/22/25 07:25 mg/Kg

Client Sample ID: BF05@0.25-0.75 Lab Sample ID: 890-7983-17

Date Collected: 04/16/25 09:23 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 9.98 04/22/25 07:32 129 mg/Kg

Client Sample ID: BF05@1.25-1.75 Lab Sample ID: 890-7983-18

Date Collected: 04/16/25 09:28

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac 9.92 04/22/25 07:39 Chloride 273 mg/Kg

Client Sample ID: BF05@2.25-2.75 Lab Sample ID: 890-7983-19

Date Collected: 04/16/25 09:35 Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac Chloride 157 10.0 mg/Kg 04/22/25 07:47

Client Sample ID: BF05@3.25-3.75 Lab Sample ID: 890-7983-20 **Matrix: Solid** 

Date Collected: 04/16/25 09:42 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 10.1 04/22/25 07:54 Chloride 152 mg/Kg

Client Sample ID: BF06@0.25-0.75 Lab Sample ID: 890-7983-21

Date Collected: 04/16/25 10:02 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 04/21/25 09:25 mg/Kg

**Eurofins Carlsbad** 

**Matrix: Solid** 

Client: CDH Consulting Project/Site: WESTALL WATER LINE

Client Sample ID: BF06@1.25-1.75

Date Collected: 04/16/25 10:09 Date Received: 04/17/25 14:43

Lab Sample ID: 890-7983-22

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte RL **MDL** Unit D Prepared Analyzed Dil Fac Result Qualifier Chloride 10.0 04/21/25 09:47 107 mg/Kg

Client Sample ID: BF06@2.25-2.75

Date Collected: 04/16/25 10:16 Date Received: 04/17/25 14:43

Lab Sample ID: 890-7983-23

Lab Sample ID: 890-7983-26

Lab Sample ID: 890-7983-27

Lab Sample ID: 890-7983-28

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier

RL MDL Unit D Analyzed Dil Fac Prepared 9.98 04/21/25 09:54 Chloride 166 mg/Kg

Client Sample ID: BF06@3.25-3.75 Lab Sample ID: 890-7983-24

Date Collected: 04/16/25 10:24 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 9.94 04/21/25 10:01 88.6 mg/Kg

Client Sample ID: BF07@0.25-1.25 Lab Sample ID: 890-7983-25

Date Collected: 04/16/25 10:57

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac 9.92 04/21/25 10:08 Chloride 117 mg/Kg

Client Sample ID: BF07@1.25-1.75

Date Collected: 04/16/25 11:03

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac Chloride 252 10.0 mg/Kg 04/21/25 10:43

Client Sample ID: BF07@2.25-2.75

Date Collected: 04/16/25 11:10

Date Received: 04/17/25 14:43

lethod: 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

Date Collected: 04/16/25 11:19

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 04/21/25 10:57 mg/Kg

Client: CDH Consulting Project/Site: WESTALL WATER LINE

Client Sample ID: BF08@0.25-0.75

Date Collected: 04/16/25 11:27 Date Received: 04/17/25 14:43 Lab Sample ID: 890-7983-29

Matrix: Solid

Method: EPA 300.0 - Anions,	Ion Chromatography - Soluble
Analyte	Posult Qualifier

RL **MDL** Unit D Prepared Analyzed Dil Fac Analyte Chloride 9.94 04/21/25 11:05 98.8 mg/Kg

Client Sample ID: BF08@1.25-1.75

Date Collected: 04/16/25 11:34 Date Received: 04/17/25 14:43

Lab Sample ID: 890-7983-30 **Matrix: Solid** 

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL D Analyzed Dil Fac Unit Prepared 9.92 04/21/25 11:12 Chloride 230 mg/Kg

Client Sample ID: BF08@2.25-2.75

Date Collected: 04/16/25 11:41

Lab Sample ID: 890-7983-31

Analyzed

Lab Sample ID: 890-7983-33

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Chloride 10.0 04/21/25 11:19 245 mg/Kg

Client Sample ID: BF08@3.25-3.75 Lab Sample ID: 890-7983-32 **Matrix: Solid** 

Date Collected: 04/16/25 11:50

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 04/21/25 11:41 10.0 Chloride 259 mg/Kg

Client Sample ID: BF09@0.25-0.75

Date Collected: 04/16/25 12:58

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac

Client Sample ID: BF09@1.25-1.75

Date Collected: 04/16/25 13:07

Date Received: 04/17/25 14:43

Chloride 1410 10.0 mg/Kg 04/21/25 11:48 Lab Sample ID: 890-7983-34

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 49.7 04/21/25 12:09 Chloride 3260 mg/Kg

Client Sample ID: BF09@2.25-2.75

Date Collected: 04/16/25 13:16

Date Received: 04/17/25 14:43

Lab Sample ID: 890-7983-35

**Matrix: Solid** 

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 2380 49.6 04/21/25 12:16 mg/Kg

**Eurofins Carlsbad** 

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

Dil Fac

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

### Client Sample Results

Job ID: 890-7983-1 Client: CDH Consulting

Project/Site: WESTALL WATER LINE

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

Lab Sample ID: 890-7983-37 Client Sample ID: BF10@0.25-0.75

Date Collected: 04/16/25 13:30

Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL D Analyzed Dil Fac Unit Prepared 1230 9.96 04/21/25 12:31 Chloride mg/Kg

Client Sample ID: BF10@1.25-1.75 Lab Sample ID: 890-7983-38 **Matrix: Solid** 

Date Collected: 04/16/25 13:36 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 9.92 04/21/25 12:38 564 mg/Kg

Client Sample ID: BF10@2.25-2.75 Lab Sample ID: 890-7983-39 **Matrix: Solid** 

Date Collected: 04/16/25 13:45

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 04/21/25 12:45 50.1 Chloride 2890 mg/Kg

Client Sample ID: BF10@3.25-3.75 Lab Sample ID: 890-7983-40

Date Collected: 04/16/25 13:57 Date Received: 04/17/25 14:43

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac Chloride 5640 99.4 mg/Kg 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

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 635 F1 9.98 04/21/25 09:55 Chloride mg/Kg

Client Sample ID: BF11@1.25-1.75 Lab Sample ID: 890-7983-42

Date Collected: 04/16/25 00:00 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 04/21/25 10:18 mg/Kg

### **Client Sample Results**

Client: CDH Consulting Job ID: 890-7983-1

Project/Site: WESTALL WATER LINE

Lab Sample ID: 890-7983-43 Client Sample ID: BF11@2.25-2.75

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

Lab Sample ID: 890-7983-44 Client Sample ID: BF11@3.25-3.75

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 D Analyzed Dil Fac Unit Prepared Chloride 9.96 04/21/25 10:33 278 mg/Kg

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 Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Chloride 150 9.92 04/21/25 10:41 mg/Kg

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 Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac 04/21/25 11:03 10.1 Chloride 90.9 mg/Kg

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

Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac Chloride 196 10.1 mg/Kg 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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 9.94 04/21/25 11:18 Chloride 255 mg/Kg

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client: CDH Consulting Job ID: 890-7983-1

Project/Site: WESTALL WATER LINE

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108095/1-A

Analysis Batch: 108131

Matrix: Solid

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prep	pared	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

	Spike	LCS LCS				%Rec	
Analyte	Added F	esult Qualifier	Unit	D	%Rec	Limits	
Chloride	250	251.8	mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-108095/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble** 

Analysis Batch: 108131

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	250.1		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 890-7983-1 MS Client Sample ID: BF01@0.25-0.75 **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 108131

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	125	F1	250	409.0	F1	mg/Kg	_	114	90 - 110	

Lab Sample ID: 890-7983-1 MSD Client Sample ID: BF01@0.25-0.75 **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 108131

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	125	F1	250	412.0	F1	ma/Ka		115	90 - 110	1	20	

Lab Sample ID: 890-7983-11 MS Client Sample ID: BF03@2.25-2.75 **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 108131

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	158	F1	251	451.0	F1	mg/Kg		117	90 - 110	

Lab Sample ID: 890-7983-11 MSD Client Sample ID: BF03@2.25-2.75

**Matrix: Solid** 

Analysis Batch: 108131

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	158	F1	251	451.7	F1	mg/Kg		117	90 - 110	0	20

Lab Sample ID: MB 880-108136/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 108141

Released to Imaging: 8/28/2025 1:30:57 PM

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		ma/Ka			04/21/25 09:33	

**Eurofins Carlsbad** 

**Prep Type: Soluble** 

Job ID: 890-7983-1 Client: CDH Consulting

Project/Site: WESTALL WATER LINE

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-108136/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 108141

LCS LCS %Rec Spike Analyte Added Result Qualifier %Rec Limits Unit D Chloride 250 269.5 mg/Kg 108 90 - 110

Lab Sample ID: LCSD 880-108136/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 108141** 

Spike LCSD LCSD %Rec RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 267.2 mg/Kg 107 90 - 110

Lab Sample ID: 890-7983-41 MS Client Sample ID: BF11@0.25-0.75

**Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 108141

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 635 F1 922.5 F1 250 mg/Kg 115 90 - 110

Lab Sample ID: 890-7983-41 MSD Client Sample ID: BF11@0.25-0.75

**Matrix: Solid** 

Analysis Batch: 108141

Sample Sample MSD MSD RPD Spike %Rec Qualifier Added Qualifier RPD Limit Analyte Result Result Unit %Rec Limits Chloride 635 250 922.6 F1 115 90 - 110 20 mg/Kg

Lab Sample ID: MB 880-108096/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 108142

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 10.0 Chloride <10.0 U mg/Kg 04/21/25 09:04

MR MR

Lab Sample ID: LCS 880-108096/2-A Client Sample ID: Lab Control Sample Matrix: Solid

Analysis Batch: 108142

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 238.8 mg/Kg 90 - 110

Lab Sample ID: LCSD 880-108096/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 108142

LCSD LCSD RPD Spike %Rec Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 250 239.1 mg/Kg 96 90 - 110 20

Lab Sample ID: 890-7983-21 MS Client Sample ID: BF06@0.25-0.75

**Matrix: Solid** 

Analysis Batch: 108142

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 98.7 251 362.5 mg/Kg 105 90 - 110

**Eurofins Carlsbad** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client Sample ID: BF06@0.25-0.75

**Prep Type: Soluble** 

### QC Sample Results

Client: CDH Consulting Job ID: 890-7983-1

Project/Site: WESTALL WATER LINE

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7983-21 MSD

Analysis Batch: 108142

**Matrix: Solid** 

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

**Prep Type: Soluble Matrix: Solid** 

Analysis Batch: 108142

Sample Sample Spike MS MS %Rec Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec 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

MSD MSD

%Rec RPD Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 245 251 501.0 102 90 - 110 20 mg/Kg

## **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 Batc
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	
390-7983-24	BF06@3.25-3.75	Soluble	Solid	DI Leach	
390-7983-25	BF07@0.25-1.25	Soluble	Solid	DI Leach	
390-7983-26	BF07@1.25-1.75	Soluble	Solid	DI Leach	
390-7983-27	BF07@2.25-2.75	Soluble	Solid	DI Leach	
390-7983-28	BF07@3.25-3.75	Soluble	Solid	DI Leach	
390-7983-29	BF08@0.25-0.75	Soluble	Solid	DI Leach	
90-7983-30	BF08@1.25-1.75	Soluble	Solid	DI Leach	
390-7983-31	BF08@2.25-2.75	Soluble	Solid	DI Leach	
90-7983-32	BF08@3.25-3.75	Soluble	Solid	DI Leach	
90-7983-33	BF09@0.25-0.75	Soluble	Solid	DI Leach	
390-7983-34	BF09@1.25-1.75	Soluble	Solid	DI Leach	
90-7983-35	BF09@2.25-2.75	Soluble	Solid	DI Leach	
390-7983-36	BF09@3.25-3.75	Soluble	Solid	DI Leach	
390-7983-37	BF10@0.25-0.75	Soluble	Solid	DI Leach	
90-7983-38	BF10@1.25-1.75	Soluble	Solid	DI Leach	
390-7983-39	BF10@2.25-2.75	Soluble	Solid	DI Leach	
90-7983-40	BF10@3.25-3.75	Soluble	Solid	DI Leach	
MB 880-108096/1-A	Method Blank	Soluble	Solid	DI Leach	

**Eurofins Carlsbad** 

4/22/2025

### **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	ab Sample ID Client Sample ID		Matrix	Method	Prep Batch
LCS 880-108096/2-A	S 880-108096/2-A Lab Control Sample		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 Batcl
890-7983-1	BF01@0.25-0.75	Soluble	Solid	300.0	10809
890-7983-2	BF01@1.25-1.75	Soluble	Solid	300.0	10809
890-7983-3	BF01@2.25-2.75	Soluble	Solid	300.0	108098
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
390-7983-12	BF03@3.25-3.75	Soluble	Solid	300.0	108095
390-7983-13	BF04@0.25-0.75	Soluble	Solid	300.0	108095
890-7983-14	BF04@1.25-1.75	Soluble	Solid	300.0	108095
390-7983-15	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
390-7983-19	BF05@2.25-2.75	Soluble	Solid	300.0	108095
390-7983-20	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

Job ID: 890-7983-1 Project/Site: WESTALL WATER LINE

### 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
390-7983-30	BF08@1.25-1.75	Soluble	Solid	300.0	108096
890-7983-31	BF08@2.25-2.75	Soluble	Solid	300.0	108096
390-7983-32	BF08@3.25-3.75	Soluble	Solid	300.0	108096
390-7983-33	BF09@0.25-0.75	Soluble	Solid	300.0	108096
390-7983-34	BF09@1.25-1.75	Soluble	Solid	300.0	108096
390-7983-35	BF09@2.25-2.75	Soluble	Solid	300.0	108096
390-7983-36	BF09@3.25-3.75	Soluble	Solid	300.0	108096
390-7983-37	BF10@0.25-0.75	Soluble	Solid	300.0	108096
890-7983-38	BF10@1.25-1.75	Soluble	Solid	300.0	108096
390-7983-39	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

Project/Site: WESTALL WATER LINE

Client Sample ID: BF01@0.25-0.75

Date Collected: 04/16/25 07:44 Date Received: 04/17/25 14:43 Lab Sample ID: 890-7983-1

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

Job ID: 890-7983-1

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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 **Matrix: Solid** 

Date Collected: 04/16/25 07:49

Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Lab Sample ID: 890-7983-3 Client Sample ID: BF01@2.25-2.75

Date Collected: 04/16/25 07:56

Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

ID DE0004 05 4 55

Released to Imaging: 8/28/2025 1:30:57 PM

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	

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Job ID: 890-7983-1

Lab Sample ID: 890-7983-8

Lab Sample ID: 890-7983-9

Lab Sample ID: 890-7983-10

Lab Sample ID: 890-7983-11

Matrix: Solid

Matrix: Solid

**Matrix: Solid** 

Client: CDH Consulting

Project/Site: WESTALL WATER LINE

Client Sample ID: BF02@2.25-2.75

Date Received: 04/17/25 14:43

Lab Sample ID: 890-7983-7 Date Collected: 04/16/25 08:17 Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed DI Leach 04/18/25 11:44 Soluble Leach 108095 SA EET MID 300.0 04/22/25 05:52 Soluble Analysis 1 108131 CH **EET MID** 

Client Sample ID: BF02@3.25-3.75

Date Collected: 04/16/25 08:21 Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Date Collected: 04/16/25 08:26

Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Date Collected: 04/16/25 08:31

Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Date Collected: 04/16/25 08:35

Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Date Collected: 04/16/25 08:41

Date Received: 04/17/25 14:43

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Lab Sample ID: 890-7983-12 **Matrix: Solid** 

**Matrix: Solid** 

Project/Site: WESTALL WATER LINE

Client Sample ID: BF04@0.25-0.75

Date Collected: 04/16/25 08:46 Date Received: 04/17/25 14:43 Lab Sample ID: 890-7983-13

Matrix: Solid

Job ID: 890-7983-1

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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 Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Released to Imaging: 8/28/2025 1:30:57 PM

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

**Eurofins Carlsbad** 

**Matrix: Solid** 

**Matrix: Solid** 

Project/Site: WESTALL WATER LINE

Lab Sample ID: 890-7983-19

Matrix: Solid

Client Sample ID: BF05@2.25-2.75

Date Collected: 04/16/25 09:35 Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

**Matrix: Solid** 

Date Collected: 04/16/25 09:42 Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

**Matrix: Solid** 

Date Collected: 04/16/25 10:02 Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

**Matrix: Solid** 

Date Collected: 04/16/25 10:09 Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

**Matrix: Solid** 

Date Collected: 04/16/25 10:16 Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

**Matrix: Solid** 

Date Collected: 04/16/25 10:24 Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

**Eurofins Carlsbad** 

Job ID: 890-7983-1

Project/Site: WESTALL WATER LINE

Client Sample ID: BF07@0.25-1.25

Date Collected: 04/16/25 10:57 Date Received: 04/17/25 14:43 Lab Sample ID: 890-7983-25

Matrix: Solid

Job ID: 890-7983-1

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Date Collected: 04/16/25 11:03

Date Received: 04/17/25 14:43

Lab Sample ID: 890-7983-26

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Date Collected: 04/16/25 11:10

Date Received: 04/17/25 14:43

Lab Sample ID: 890-7983-27

Matrix: Solid

Batch Dilution Batch Batch Prepared Method Prep Type Туре Factor Number or Analyzed Run Analyst Lab Soluble Leach DI Leach 108096 EET MID 04/18/25 11:46 04/21/25 10:50 Soluble Analysis 300.0 108142 SMC **EET MID** 1

Client Sample ID: BF07@3.25-3.75

Date Collected: 04/16/25 11:19

Date Received: 04/17/25 14:43

Lab Sample ID: 890-7983-28

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

Date Collected: 04/16/25 11:27

Lab Sample ID: 890-7983-29

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Released to Imaging: 8/28/2025 1:30:57 PM

**Eurofins Carlsbad** 

Date Received: 04/17/25 14:43 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 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** or Analyzed Lab DI Leach SA 04/18/25 11:46 Soluble Leach 108096 **EET MID** 300.0 04/21/25 11:12 Soluble Analysis 108142 SMC EET MID

Client Sample ID: BF08@2.25-2.75

Project/Site: WESTALL WATER LINE

Lab Sample ID: 890-7983-31

Matrix: Solid

Job ID: 890-7983-1

Date Collected: 04/16/25 11:41

Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

		Batch	Batch		Dilution	Batch			Prepared
Prep 1	уре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Solubl	e	Leach	DI Leach			108096	SA	EET MID	04/18/25 11:46
Solubl	е	Analysis	300.0		10	108142	SMC	EET MID	04/21/25 12:24

Project/Site: WESTALL WATER LINE

Client Sample ID: BF10@0.25-0.75

Date Collected: 04/16/25 13:30 Date Received: 04/17/25 14:43

Lab Sample ID: 890-7983-37

Matrix: Solid

Job ID: 890-7983-1

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 04/18/25 11:46 Soluble Leach DI Leach 108096 SA EET MID 04/21/25 12:31 Soluble Analysis 300.0 1 108142 SMC EET MID

Client Sample ID: BF10@1.25-1.75 Lab Sample ID: 890-7983-38

Date Collected: 04/16/25 13:36 Date Received: 04/17/25 14:43

**Matrix: Solid** 

Batch Batch Dilution Batch Prepared **Prep Type** Туре Method Run Factor Number Analyst Lab or Analyzed DI Leach 108096 SA 04/18/25 11:46 Soluble Leach EET MID 300.0 108142 SMC Soluble Analysis **EET MID** 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

Date Received: 04/17/25 14:43

**Matrix: Solid** 

Batch Dilution Batch Batch Prepared Туре Method Factor Number or Analyzed Prep Type Run Analyst Lab Soluble Leach DI Leach 108096 SA EET MID 04/18/25 11:46 04/21/25 12:45 Soluble Analysis 300.0 108142 SMC **EET MID** 5

Client Sample ID: BF10@3.25-3.75 Lab Sample ID: 890-7983-40

Date Collected: 04/16/25 13:57

Date Received: 04/17/25 14:43

**Matrix: Solid** 

Batch Batch Dilution Batch Prepared Method or Analyzed **Prep Type** Type Run Factor Number Analyst Lab 04/18/25 11:46 Soluble Leach DI Leach 108096 SA **EET MID** 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

108136

SA

FFT MID

Date Collected: 04/16/25 00:00

Date Received: 04/17/25 14:43

Soluble

Date Received: 04/17/25 14:43 Batch Batch Dilution Prepared Batch Method **Prep Type** Туре Run Factor Number Analyst Lab or Analyzed

Soluble Analysis 300.0 108141 SMC EET MID 04/21/25 09:55 1

Client Sample ID: BF11@1.25-1.75

Leach

Date Collected: 04/16/25 00:00

DI Leach

Lab Sample ID: 890-7983-42

04/18/25 15:49

**Matrix: Solid** 

**Matrix: Solid** 

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst or Analyzed Lab DI Leach SA 04/18/25 15:49 Soluble Leach 108136 **EET MID** 300.0 Soluble Analysis 108141 SMC EET MID 04/21/25 10:18

Project/Site: WESTALL WATER LINE

Lab Sample ID: 890-7983-43

Matrix: Solid

Job ID: 890-7983-1

Client Sample ID: BF11@2.25-2.75

Date Collected: 04/16/25 00:00 Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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 Date Received: 04/17/25 14:43

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	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 Date Received: 04/17/25 14:43

Released to Imaging: 8/28/2025 1:30:57 PM

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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** 

**Matrix: Solid** 

**Matrix: Solid** 

### **Accreditation/Certification Summary**

Client: CDH Consulting Job ID: 890-7983-1

Project/Site: WESTALL WATER LINE

**Laboratory: Eurofins Midland** 

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

Authority	Program	Identification Number	<b>Expiration Date</b>
Texas	NELAP	T104704400	06-30-25

### **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

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### **Sample Summary**

Client: CDH Consulting

Project/Site: WESTALL WATER LINE

Job	ID:	890-7983-1
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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
390-7983-1	BF01@0.25-0.75	Solid	04/16/25 07:44	04/17/25 14:43	
390-7983-2	BF01@1.25-1.75	Solid	04/16/25 07:49	04/17/25 14:43	
390-7983-3	BF01@2.25-2.75	Solid	04/16/25 07:56	04/17/25 14:43	
390-7983-4	BF01@3.25-3.75	Solid	04/16/25 08:04	04/17/25 14:43	
390-7983-5	BF02@0.25-0.75	Solid	04/16/25 08:10	04/17/25 14:43	
90-7983-6	BF02@1.25-1.75	Solid	04/16/25 08:14	04/17/25 14:43	
90-7983-7	BF02@2.25-2.75	Solid	04/16/25 08:17	04/17/25 14:43	
90-7983-8	BF02@3.25-3.75	Solid	04/16/25 08:21	04/17/25 14:43	
90-7983-9	BF03@0.25-0.75	Solid	04/16/25 08:26	04/17/25 14:43	
90-7983-10	BF03@1.25-1.75	Solid	04/16/25 08:31	04/17/25 14:43	
90-7983-11	BF03@2.25-2.75	Solid	04/16/25 08:35	04/17/25 14:43	
90-7983-12	BF03@3.25-3.75	Solid	04/16/25 08:41	04/17/25 14:43	
90-7983-13	BF04@0.25-0.75	Solid	04/16/25 08:46	04/17/25 14:43	
90-7983-14	BF04@1.25-1.75	Solid	04/16/25 08:52	04/17/25 14:43	
90-7983-15	BF04@2.25-2.75	Solid	04/16/25 08:59	04/17/25 14:43	
90-7983-16	BF04@3.25-3.75	Solid	04/16/25 09:08	04/17/25 14:43	
390-7983-17	BF05@0.25-0.75	Solid	04/16/25 09:23	04/17/25 14:43	
90-7983-18	BF05@1.25-1.75	Solid	04/16/25 09:28	04/17/25 14:43	
90-7983-19	BF05@2.25-2.75	Solid	04/16/25 09:35	04/17/25 14:43	
390-7983-20	BF05@3.25-3.75	Solid	04/16/25 09:42	04/17/25 14:43	
90-7983-21	BF06@0.25-0.75	Solid	04/16/25 10:02	04/17/25 14:43	
90-7983-22	BF06@1.25-1.75	Solid	04/16/25 10:09	04/17/25 14:43	
90-7983-23	BF06@2.25-2.75	Solid	04/16/25 10:16	04/17/25 14:43	
90-7983-24	BF06@3.25-3.75	Solid	04/16/25 10:10	04/17/25 14:43	
90-7983-25			04/16/25 10:57	04/17/25 14:43	
90-7983-26	BF07@0.25-1.25	Solid Solid	04/16/25 10:57		
	BF07@1.25-1.75			04/17/25 14:43	
90-7983-27	BF07@2.25-2.75	Solid	04/16/25 11:10	04/17/25 14:43	
90-7983-28	BF07@3.25-3.75	Solid	04/16/25 11:19	04/17/25 14:43	
90-7983-29	BF08@0.25-0.75	Solid	04/16/25 11:27	04/17/25 14:43	
90-7983-30	BF08@1.25-1.75	Solid	04/16/25 11:34	04/17/25 14:43	
90-7983-31	BF08@2.25-2.75	Solid	04/16/25 11:41	04/17/25 14:43	
90-7983-32	BF08@3.25-3.75	Solid	04/16/25 11:50	04/17/25 14:43	
90-7983-33	BF09@0.25-0.75	Solid	04/16/25 12:58	04/17/25 14:43	
90-7983-34	BF09@1.25-1.75	Solid	04/16/25 13:07	04/17/25 14:43	
90-7983-35	BF09@2.25-2.75	Solid	04/16/25 13:16	04/17/25 14:43	
90-7983-36	BF09@3.25-3.75	Solid	04/16/25 13:22	04/17/25 14:43	
390-7983-37	BF10@0.25-0.75	Solid	04/16/25 13:30	04/17/25 14:43	
90-7983-38	BF10@1.25-1.75	Solid	04/16/25 13:36	04/17/25 14:43	
90-7983-39	BF10@2.25-2.75	Solid	04/16/25 13:45	04/17/25 14:43	
90-7983-40	BF10@3.25-3.75	Solid	04/16/25 13:57	04/17/25 14:43	
90-7983-41	BF11@0.25-0.75	Solid	04/16/25 00:00	04/17/25 14:43	
90-7983-42	BF11@1.25-1.75	Solid	04/16/25 00:00	04/17/25 14:43	
90-7983-43	BF11@2.25-2.75	Solid	04/16/25 00:00	04/17/25 14:43	
90-7983-44	BF11@3.25-3.75	Solid	04/16/25 00:00	04/17/25 14:43	
390-7983-45	BF12@0.25-0.75	Solid	04/16/25 00:00	04/17/25 14:43	
90-7983-46	BF12@1.25-1.75	Solid	04/16/25 00:00	04/17/25 14:43	
390-7983-47	BF12@2.25-2.75	Solid	04/16/25 00:00	04/17/25 14:43	
390-7983-48	BF12@3.25-3.75	Solid	04/16/25 00:00	04/17/25 14:43	

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Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody

**Environment Testing** 

😍 eurofins

Project Manager:	ichael wacker	Bill to: (if different)	COH Consulting	Work Order Comments	ments
	W. nm coercating	Company Name:	h	Program: UST/PST   PRP   Brownfields	elds RRC Superfund
Address:	י י	Address:		State of Project:	
City, State ZIP:		City, State ZIP:		Reporting: Level II Level III PST/UST TRRP Level IV	UST TRRP Level IV
Phone:	1016-970-8459 E	Email: LUCICLONE	unickerecolnicasoit, com	Deliverables: EDD ☐ ADaPT ☐	] Other:
Project Name:	Mestall Water Live	Turn Around	ANALYSIS REQUEST	JEST	Preservative Codes
er:	Koutine	tine Rush Code		O Z	None: NO DI Water: H <sub>2</sub> O
	O'D WIS DIM Due Date:			Č	Cool: Cool MeOH: Me
	octal Cueto	TAT starts the day received by		DH	HCL: HC HNO 3: HN
PO #:	the lab			H <sub>2</sub> 5	H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub> NaOH: Na
SAMPLE RECEIPT	Temp Blank: Yes No Wet Ice:	ce: Yes No	200	H <sub>3</sub> -E	H <sub>3</sub> PO <sub>4</sub> : HP
Samples Received Intact:	Yes No Thermometer ID:	ram	) [	Nal	NaHSO 4: NABIS
Cooler Custody Seals:	Yes No M/A Correction Factor:	Pa	7	e N	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
Sample Custody Seals:	Yes NO N/A Temperature Reading:	j:	7	uZ Z	Zn Acetate+NaOH: Zn
Total Containers:	Corrected Temperature:	ure:	7-1	Nac	NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Depth Grab/	H70		Sample Comments
	Sampled				
8F03@ d.35	275 5 411WBB	35 u l			
BF03@3.25	-3,10 1 08.4				
Broy 60.25	94:80 1 500-	16			
84040 1.25-	rs:30       51:11	5.7			
BF046716	1.75 128.59	39			
APAU® 31,35-	3,75	- 80			
0	52:00   109:23	3			
BF05@1.25.	82180   51.1	200			
APPE 225-	52,1901 1 1 51.35	1     9			
	3-15 1 1 109.43	(9			
Total 200.7 / 6010 Jircle Method(s) and I	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Circle Method(s) and Metal(s) to be analyzed TCLP / SPL		A 13PPM Texas 11 Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V TCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470 / 74 <sup>-</sup>	g Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Z Se Ag Tl U Hg: 1631/245.1/7470 /7471	Sn U V Zn 170 /7471
otice: Signature of this document service. Eurofins Xenco will be lis Feurofins Xenco. A minimum char	and relinquishment of samples constitutes a valid purch sible only for the cost of samples and shall not assume an ge of \$85.00 will be applied to each project and a charg	ase order from client company to Eur. y responsibility for any losses or exper e of \$5 for each sample submitted to I	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 service. Eurofins Xenco, will be labele on the 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.	ms and conditions syond the control as previously negotiated.	
Relinquished by: (Signature)	nature) Received by: (Signature)	rature)	Bate/Time Relinquished by: (Signature)	ure) Received by: (Signature)	Date/Time
ON THE PLANE	Brile	7	Alb En Pm		
WILLIAM WALLER	100				

Work Order No:

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

**Environment Testing Xenco** 

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Chain of Custody

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

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Notice   1911   1911   1912   1912   1912   1913					www.xenco.com Page	
Program: USTATE   PROJECTION   PROJECTION		Michael Wicker	Bill to: (if differen	COF	Work Order Comments	
State of Popet:   State of Pope:   State of Popet:   State of St		W. Um Operation			UST/PST   PRP   Brownfields	RC Superfund Score
Hardware   Hardware						
AUV-7-TO FV69   Email   ML-3 (ACP CO-6 Coll Co-NS.)   T. CO-NA   Deliverables: EDD   ADAT   Other	City, State ZIP:		City, State ZIP:			TRRP   Level IV
Presentative   Web-CLP   Inches   Marker   Mar		10-970-8459		colh Consult.	EDD \ ADaPT	ier:
Note: NOTE   March		vestall water (140	Turn Around	ANALYSIS RE		ative Codes
COST	ber:			Pres. Code	None: NO	DI Water: H <sub>2</sub> O
HCLHC   HCLKER   HC		AND HALLS MAN	Due Date:		Cool: Cool	MeOH: Me
H   150 ± H		Solicital Cueto	TAT starts the day received by		HCL: HC	HNO 3: HN
li K Se Ag SiO <sub>2</sub> Na Sr. Hg: 1631/245.1/ Bated. Received by: (Signature)	PO #:		the lab, if received by 4:30pm	s	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
li K Se Ag SiO <sub>2</sub> Na Sr Hg: 1631/245.1/	SAMPLE RECEIPT		1		H <sub>3</sub> PO <sub>4</sub> : HP	
li K Se Ag SiO <sub>2</sub> Na Sr Hg: 1631/245.1/	Samples Received Intact	Yes No	eter ID:		NaHSO 4: NABI	BIS
li K Se Ag SiO <sub>2</sub> Na Sr Hg: 1631/245.1 /	Cooler Custody Seals:	N/N ON	n Faction:		Na 2 S 2 O 3: Na S C	30 <sub>3</sub>
If K Se Ag SiO <sub>2</sub> Na Sr Hg: 1631/245.1/	Sample Custody Seals:	No N/A	ure Reading:	17)	Zn Acetate+Na	4aOH: Zn
li K Se Ag SiO <sub>2</sub> Na Sr Tl Sr Hg: 1631/245.1/747/ Hgeelved by: (Signature)	Total Containers:	Corrected	Temperature:	10°	NaOH+Ascorbi	oic Acid: SAPC
li K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Z Hg: 1631/245.1/7470 /747	Sample Identific	Matrix	Time Depth	# of Cont	Sample	Comments
Ii K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Z Hg: 1631 / 245.1 / 7470 / 747 Hg: 1631 / 245.1 / 7470 / 747	Bros 0.25	S	11:41	_		
Ii K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Z Hg: 1631 / 245.1 / 7470 / 747	Bro8 83.25	-3.75 1 1	11:50			
Ii K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Z Hg: 1631 / 245.1 / 7470 / 747 Hg: 1531 / 245.1 / 7470 / 747	JAM 60,35	500-	85:21			
li K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Z Hg: 1631 / 245.1 / 7470 / 747 Hg: 1631 / 245.1 / 7470 / 747	BAGG 1.25-	1 911	(3:07			
li K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Z Hg: 1631 / 245.1 / 7470 / 747 lated.	Brove 2.25	-3.75	13:10			
Ii K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Z Hg: 1631/245.1/7470 /747 lated.	Broge 3.25	-3.75	(3:33			
li K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V 3 Hg: 1631 / 245.1 / 7470 / 747 Hg: 1631 / 245.1 / 7470 / 747 Hsted. Received by: (Signature)	BF10@0,35.	200 St.0	13:30			
If K Se Ag SiO <sub>2</sub> Na Sr TI Sn U V Z Hg: 1631 / 245.1 / 7470 / 747 Hg: 1631 / 245.1 / 7470 / 747 Hg: 1631 / 245.1 / 7470 / 747	8×1001.35	- (,75	18:86			
Ii K Se Ag SiO <sub>2</sub> Na Sr TI Sn U V Z Hg: 1631 / 245.1 / 7470 / 747 Hated. Received by: (Signature)	BF10@ 8.35	- 3.75	18:45	\		
li K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Z Hg: 1631 / 245.1 / 7470 / 747 tated.	150	-3.75 1 1	13:57	7		
Breceived by: (Signature)	Total 200.7 / 6010 Circle Method(s) an			AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb RA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo N	Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Z i Se Ag Tl U Hg: 1631/245.1/7470/7471	Zn 1
sceived by: (Signature)	Notice: Signature of this docum of service. Eurofins Xenco will be of Eurofins Xenco. A minimum of	ent and relinquishment of samples constitutes be liable only for the cost of samples and shall n charge of \$85.00 will be applied to each projec	a vaild purchase order from client compan hot assume any responsibility for any losses t and a charge of \$5 for each sample subm	y to Euroffins Xenco, its affiliates and subcontractors. It assigns standard or expenses incurred by the client if such losses are due to circumstance titled to Euroffins Xenco, but not analyzed. These terms will be enforced.	terms and conditions beyond the control nless previously negotiated.	
was about 14143 40	Relinquished by: (5	ignature) Received	d by: (Signature)	Date/Time Relinquished by: (Sign	eceived by: (Signature)	Date/Time
, F	- Charte Lite	alon		B		
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Work-Order No:

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**Environment Testing** 

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Chain of Custody

	Xenco	EL Pasc	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296		1
		Hobbs	Hobbs, NM (5/5) 392-7550, Carlsbad, NM (5/5) 988-3199	www.xenco.com Page	3 of 5
Project Manager:	Michaelwicky	Bill to: (if different)	Cost Consulting	Work Order Comments	
Company Name:		ng Company Name:		Program: UST/PST   PRP   Brownfields	RRC Superfund
Address:					
City, State ZIP:		City, State ZIP:			TRRP   Level IV
Phone:	1016-970-8459	Email: MUUICHE	MUSICULA OCAHOONSULT. COM	Deliverables: EDD ☐ ADaPT ☐	Other:
Project Name:	Mestall Water Line	Turn Around		ANALYSIS REQUEST Pres	Preservative Codes
Project Number:	1	Routine - Rush	Pres. Code	None: NO	DI Water: H <sub>2</sub>
Project Location:	COCO HUIS MM	Due Date:		Cool: Cool	
Sampler's Name:	Dakootah Cueto	TAT starts the day received by the lab, if received by 4:30pm		HCL: HC HC: HC HC: HC	HNO 3: HN NaOH: Na
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: No	sters S	4H:*Od*H	
Samples Received Intact:	Yes No T	1		NaHSO 4: NABIS	NABIS
Cooler Custody Seals:	Yes No AVA	-actor.		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO	NaSO 3
Sample Custody Seals:	: Yes No N/A Temperature Reading:	e Reading:	2/1	Zn Acetat	Zn Acetate+NaOH: Zn
Total Containers:	Corrected 1	Corrected Temperature:	N)	NaOH+As	NaOH+Ascorbic Acid: SAPC
Sample Identification	fication Matrix Sampled	Time Depth Grab/ Comp	# of # Court	Sam	Sample Comments
8F06-86,090-08	25-0.75 St.0-26	69:01			
Srobe 1.2	_	60:01			
Brobe 2.2	1-	0/;0/			
23	35-3,75	10:24			
AF07 (20.2)	5 -0.75	1 10:51			
8F07 E1.7	51.1-8	11:03			
8x07@225-	15-215	01:11			
8K01@3.7	25-3.75	6			
340860.36-075	36 - 0.75	1:37			
Bros e 1.35 -	1     GC1-98	11:34			
Total 200.7 / 6010 Circle Method(s) ar	200.8 / 6020: nd Metal(s) to be analyzed	8RCRA 13PPM Texas 11 / TCLP / SPLP 6010 : 8RC	A 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo NTCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn d Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg:1631/245.1/7470 /7471	V Zn 7471
Notice: Signature of this doc. of service. Eurofins Xenco wi	ument and relinquishment of samples constitutes a lill be liable only for the cost of samples and shall no m charge of \$85.00 will be applied to each project.	valid purchase order from client company t assume any responsibility for any losses o and a charge of \$5 for each sample submit	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 service. Eurofins Xenco, It is also 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.	andard terms and conditions mstances beyond the control forced unless previously negotiated.	
Relinquished by: (Signature)	(Signature) Received	Received by: (Signature)	Bate/Time Relinquished by: (Signature)	: (Signature) Received by: (Signature)	Date/Time
The work of	alah		(4:43 40)		
8			4 9		
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Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

**Environment Testing** 

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Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody

Revised Date: 08/25/2020 Rev. 2020.2 -Date/Time Received by: (Signature) Relinquished by: (Signature) Date/Time ch(h) Received by: (Signature)

			Continue Consultina	WWW.xehco.com raye	
Project Manager: ////////////////////////////////////		Bill to: (if different)		Work Order Comments	
	ng	Company Name:	)	Program: UST/PST	Superfund
Address:	)	Address:		State of Project:	
City, State ZIP:		City, State ZIP:		Reporting: Level      Level        PST/UST   TRRP   Level	Level IV
Phone: [016-970-8459	Email:		MUSICKEVE COMPONENCE F. COM	Deliverables: EDD ☐ ADaPT ☐ Other:	
Project Name: Westall Water UND	Turn	Turn Around	ANALYSIS REQUEST	UEST Preservative Codes	sapo
Project Number:	Routine	Rush Code		None: NO DI	DI Water: H <sub>2</sub> O
Project Location: W.D. HW. M.M.	Due Date:			Cool: Cool	MeOH: Me
	TAT starts the day r	day received by			HNO 3: HN
PO#:	the lab, if received	by 4:30pm			NaOH: Na
SAMPLE RECEIPT Temp Blank: Yes No	o Wet Ice:	Yes No		H₃PO 4: HP	
Samples Received Intact: Yes No Thermometer ID:	neter ID:	men		NaHSO 4: NABIS	
Cooler Custody Seals: Yes No N/A Correction	Correction Factor:	34		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
: Yes No N/A	Temperature Reading:		21	Zn Acetate+NaOH: Zn	_
,	Corrected Temperature:		C	NaOH+Ascorbic Acid: SAPC	SAPC
Sample Identification Matrix Sampled	Time d Sampled	Depth Grab/ # of Cont	W)	Sample Comments	ents
8FILP 6, 45-0,75 5 4 10 1025	22	7			
t =					
8F102,35-2.15					
841163.35-3.75					
BC1300.25-0.75					
95136 135 - 1.75					
SF1363.35 - 3-15					
3 Flac 3.45 - 3.75 1 1					
Total 200.7 / 6010 200.8 / 6020:	8RCRA 13PPM	Texas 11	b As Ba Be B Cd Ca Cr Co Cu Fe Pb N	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed	ICLP/S	PLP 6010 : 8KCKA	ICLP/SPLP6010 : 8KCKA SD AS Ba Be Cd Cr CO CU PD MIN MO NI SE AG 11 O		
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 are not seen and such for the control of the control.	tes a valid purchase ord	er from client company to Eunstbility for any losses or exp	rofins Xenco, its affiliates and subcontractors. It assigns standard tenses incurred by the client if such losses are due to circumstances	arms and conditions seyond the control	
of Service. Editions Active will be made to the voice of services and a project and a charge of \$5 for each sample submitted to Euroffins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ject and a charge of \$5	for each sample submitted to	<ul> <li>Eurofins Xenco, but not analyzed. These terms will be enforced un</li> </ul>	less previously negotlated.	

### **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 Source: Eurofins Midland
List Number: 2

List Creation: 04/17/25 08:56 PM

Creator: Laing, Edmundo

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

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<6mm (1/4").

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Devin Girtin CDH Consulting 9446 Clermont St, Thornton, Colorado 80229

Generated 8/6/2025 8:43:48 AM

JOB DESCRIPTION

Westall Line Release

**JOB NUMBER** 

890-8454-1

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 8/6/2025 8:43:48 AM

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

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Client: CDH Consulting

Laboratory Job ID: 890-8454-1

Project/Site: Westall Line Release

# **Table of Contents**

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QC Sample Results	11
QC Association Summary	14
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Certification Summary	18
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Sample Summary	20
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### **Definitions/Glossary**

Client: CDH Consulting Job ID: 890-8454-1

Project/Site: Westall Line Release

**Qualifiers** 

GC VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

**Eurofins Carlsbad** 

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#### **Case Narrative**

Client: CDH Consulting Job ID: 890-8454-1
Project: Westall Line Release

Job ID: 890-8454-1 Eurofins Carlsbad

#### Job Narrative 890-8454-1

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 7/16/2025 11:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°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**

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** 

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#### **Case Narrative**

Client: CDH Consulting Job ID: 890-8454-1
Project: Westall Line Release

Job ID: 890-8454-2 Eurofins Carlsbad

## Job Narrative 890-8454-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

#### Receipt

The samples were received on 7/16/2025 11:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C.

#### HPLC/IC

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

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Matrix: Solid

Matrix: Solid

Matrix: Solid

Job ID: 890-8454-1

Client: CDH Consulting Project/Site: Westall Line Release

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Client Sample ID: BFN Lab Sample ID: 890-8454-1

Date Collected: 07/16/25 08:21

Matrix: Solid

Date Collected: 07/16/25 08:21 Matrix: Solid Date Received: 07/16/25 11:34

Sample Depth: 0-4

Client Sample ID: BFE Lab Sample ID: 890-8454-2

Date Collected: 07/16/25 08:37

Date Received: 07/16/25 11:34

Sample Depth: 0-4

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResult<br/>ChlorideQualifier<br/>420RL<br/>9.92MDL<br/>mg/KgUnit<br/>mg/KgD<br/>D<br/>mg/KgPrepared<br/>07/17/25 10:17Analyzed<br/>07/17/25 10:17

Client Sample ID: BFS

Lab Sample ID: 890-8454-3

Matrix: Solid

Date Collected: 07/16/25 08:44 Date Received: 07/16/25 11:34

Sample Depth: 0-4

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResult<br/>ChlorideQualifier<br/>808RL<br/>50.2MDL<br/>mg/KgUnit<br/>mg/KgD<br/>D<br/>MDL<br/>mg/KgPrepared<br/>07/17/25 10:40Analyzed<br/>07/17/25 10:40

Client Sample ID: BFW Lab Sample ID: 890-8454-4

Date Collected: 07/16/25 08:50 Date Received: 07/16/25 11:34

Date Received: 07/16/25 11:34

Sample Depth: 0-4

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResult ChlorideQualifier S38RL Qualifier Qualifier

Client Sample ID: BFF 1 Lab Sample ID: 890-8454-5

Date Collected: 07/16/25 08:58 Date Received: 07/16/25 11:34

Sample Depth: 4.5

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride793099.8mg/Kg07/17/25 10:5510

Client Sample ID: BFF 2

Date Collected: 07/16/25 09:09

Lab Sample ID: 890-8454-6

Matrix: Solid

Date Collected: 07/16/25 09:09 Date Received: 07/16/25 11:34

Date Received. 07/10/25 11.5

Sample Depth: 4.5

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride60310.0mg/Kg07/17/25 11:031

Job ID: 890-8454-1

Project/Site: Westall Line Release

Client: CDH Consulting

**Client Sample ID: BFTS** 

Lab Sample ID: 890-8454-7

Date Collected: 07/16/25 09:15 **Matrix: Solid** Date Received: 07/16/25 11:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/17/25 07:50	07/17/25 08:14	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/17/25 07:50	07/17/25 08:14	•
Toluene	< 0.00199	U	0.00199		mg/Kg		07/17/25 07:50	07/17/25 08:14	•
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/17/25 07:50	07/17/25 08:14	1
m-Xylene & p-Xylene	< 0.00398	U	0.00398		mg/Kg		07/17/25 07:50	07/17/25 08:14	
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/17/25 07:50	07/17/25 08:14	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	92		70 - 130				07/17/25 07:50	07/17/25 08:14	
1,4-Difluorobenzene (Surr)	106		70 - 130				07/17/25 07:50	07/17/25 08:14	•
Method: TAL SOP Total BTEX	( - Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/17/25 08:14	1
Method: SW846 8015 NM - Di	esel Range (	Organics (	DPO) (CC)						
	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	_	Qualifier	, , ,	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/17/25 08:58	
Analyte Total TPH	<b>Result</b> <49.6	Qualifier U	<b>RL</b> 49.6	MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - [	Result <49.6	Qualifier U	<b>RL</b> 49.6			<u>D</u> D	Prepared Prepared		1
Analyte Total TPH  Method: SW846 8015B NM - I Analyte Gasoline Range Organics	Result <49.6	Qualifier U Organics Qualifier	RL 49.6 (DRO) (GC)		mg/Kg			07/17/25 08:58	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - I Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.6 Diesel Range Result	Qualifier U  Organics Qualifier U	49.6 (DRO) (GC)		mg/Kg		Prepared 07/16/25 08:25	07/17/25 08:58  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.6  Diesel Range Result <49.6	Qualifier U  Organics Qualifier U	RL 49.6 (DRO) (GC) RL 49.6		mg/Kg  Unit mg/Kg		Prepared 07/16/25 08:25 07/16/25 08:25	07/17/25 08:58  Analyzed  07/17/25 08:58	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - I Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <49.6  Diesel Range Result <49.6  <49.6	Qualifier U  Organics Qualifier U  U	RL 49.6  (DRO) (GC) RL 49.6  49.6		mg/Kg  Unit mg/Kg mg/Kg		Prepared 07/16/25 08:25 07/16/25 08:25	07/17/25 08:58  Analyzed 07/17/25 08:58  07/17/25 08:58	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - I Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  Organics Qualifier U  U	RL 49.6  (DRO) (GC) RL 49.6  49.6  49.6		mg/Kg  Unit mg/Kg mg/Kg		Prepared 07/16/25 08:25 07/16/25 08:25 07/16/25 08:25	07/17/25 08:58  Analyzed 07/17/25 08:58  07/17/25 08:58  07/17/25 08:58  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <49.6	Qualifier U  Organics Qualifier U  U	RL 49.6  (DRO) (GC) RL 49.6  49.6  49.6  49.6  Limits		mg/Kg  Unit mg/Kg mg/Kg		Prepared 07/16/25 08:25 07/16/25 08:25 07/16/25 08:25 Prepared 07/16/25 08:25	07/17/25 08:58  Analyzed 07/17/25 08:58  07/17/25 08:58  07/17/25 08:58  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <49.6	Qualifier U  Organics Qualifier U  U  U  Qualifier	RL 49.6  (DRO) (GC) RL 49.6  49.6  49.6  Limits 70 - 130 70 - 130		mg/Kg  Unit mg/Kg mg/Kg		Prepared 07/16/25 08:25 07/16/25 08:25 07/16/25 08:25 Prepared 07/16/25 08:25	07/17/25 08:58  Analyzed 07/17/25 08:58  07/17/25 08:58  07/17/25 08:58  Analyzed 07/17/25 08:58	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl  Method: EPA 300.0 - Anions, Analyte	Result   <49.6	Qualifier U  Organics Qualifier U  U  U  Qualifier	RL 49.6  (DRO) (GC) RL 49.6  49.6  49.6  Limits 70 - 130 70 - 130	MDL	mg/Kg  Unit mg/Kg mg/Kg		Prepared 07/16/25 08:25 07/16/25 08:25 07/16/25 08:25 Prepared 07/16/25 08:25	07/17/25 08:58  Analyzed 07/17/25 08:58  07/17/25 08:58  07/17/25 08:58  Analyzed 07/17/25 08:58	Dil Fac

**Client Sample ID: BFC** Lab Sample ID: 890-8454-8 Date Collected: 07/16/25 09:23 **Matrix: Solid** 

Date Received: 07/16/25 11:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/17/25 07:50	07/17/25 08:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/17/25 07:50	07/17/25 08:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/17/25 07:50	07/17/25 08:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/17/25 07:50	07/17/25 08:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/17/25 07:50	07/17/25 08:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/17/25 07:50	07/17/25 08:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				07/17/25 07:50	07/17/25 08:35	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/17/25 07:50	07/17/25 08:35	1

### **Client Sample Results**

Client: CDH Consulting Job ID: 890-8454-1

Project/Site: Westall Line Release

Chloride

Client Sample ID: BFC Lab Sample ID: 890-8454-8

Date Collected: 07/16/25 09:23 Matrix: Solid
Date Received: 07/16/25 11:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/17/25 08:35	1
Method: SW846 8015 NM - Die	sel Range (	Organics (	DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/17/25 09:14	1
Method: SW846 8015B NM - D	iesel Range	e 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		07/16/25 08:25	07/17/25 09:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/16/25 08:25	07/17/25 09:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/16/25 08:25	07/17/25 09:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				07/16/25 08:25	07/17/25 09:14	1
o-Terphenyl	97		70 - 130				07/16/25 08:25	07/17/25 09:14	1

9.94

mg/Kg

68.8

08/06/25 04:55

# **Surrogate Summary**

Client: CDH Consulting Job ID: 890-8454-1

Project/Site: Westall Line Release

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)						
		BFB1	DFBZ1					
Lab Sample ID	Client Sample ID	(70-130)	(70-130)					
890-8454-7	BFTS	92	106					
890-8454-8	BFC	99	98					
LCS 880-114301/1-A	Lab Control Sample	98	109					
LCSD 880-114301/2-A	Lab Control Sample Dup	98	102					
MB 880-114291/8	Method Blank	102	93					
MB 880-114301/5-A	Method Blank	99	91					
Surrogate Legend								
BFB = 4-Bromofluorob	enzene (Surr)							
DFBZ = 1,4-Difluorobe	nzene (Surr)							

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

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

			Percent Surrogate Recovery (Acceptance Limits)							
		1CO1	OTPH1							
Lab Sample ID	Client Sample ID	(70-130)	(70-130)							
890-8454-7	BFTS	118	110							
890-8454-8	BFC	114	97							
LCS 880-114246/2-A	Lab Control Sample	107	107							
LCSD 880-114246/3-A	Lab Control Sample Dup	108	107							
MB 880-114246/1-A	Method Blank	103	94							

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: CDH Consulting Job ID: 890-8454-1

Project/Site: Westall Line Release

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114291/8

**Matrix: Solid** 

**Analysis Batch: 114291** 

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

MB MB Result Qualifier RL **MDL** Unit D Analyzed Dil Fac Analyte Prepared Benzene <0.00200 U 0.00200 mg/Kg 07/16/25 16:28 Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/16/25 16:28 mg/Kg Toluene <0.00200 U 0.00200 07/16/25 16:28 <0.00400 U 0.00400 mg/Kg 07/16/25 16:28 Xylenes, Total m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 07/16/25 16:28 <0.00200 U 0.00200 mg/Kg 07/16/25 16:28 o-Xylene

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 70 - 130 102 07/16/25 16:28 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 93 70 - 130 07/16/25 16:28

Lab Sample ID: MB 880-114301/5-A

**Matrix: Solid** 

**Analysis Batch: 114291** 

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

**Prep Batch: 114301** 

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 07/16/25 20:24 07/16/25 23:27 Benzene <0.00200 U 0.00200 mg/Kg Ethylbenzene 07/16/25 20:24 07/16/25 23:27 <0.00200 U 0.00200 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 07/16/25 20:24 07/16/25 23:27 <0.00400 U 0.00400 mg/Kg 07/16/25 20:24 07/16/25 23:27 Xylenes, Total <0.00400 U 0.00400 07/16/25 20:24 07/16/25 23:27 m-Xylene & p-Xylene mg/Kg <0.00200 U 0.00200 07/16/25 20:24 07/16/25 23:27 o-Xylene mg/Kg

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared A	nalyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/16/25 20:24 07/ <sup>-</sup>	16/25 23:27	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/16/25 20:24 07/	16/25 23:27	1

Lab Sample ID: LCS 880-114301/1-A

**Matrix: Solid** 

**Analysis Batch: 114291** 

**Client Sample ID: Lab Control Sample Prep Type: Total/NA** 

**Client Sample ID: Lab Control Sample Dup** 

**Prep Batch: 114301** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Benzene 0.100 0.1056 mg/Kg 106 70 - 130 Ethylbenzene 0.100 0.1081 mg/Kg 108 70 - 130 0.100 0.09573 mg/Kg 96 70 - 130 Toluene 0.200 0.2152 108 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 o-Xylene 0.1059 mg/Kg 106 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-114301/2-A

Α В

Matrix: Solid							Prep Ty	pe: Tot	al/NA
Analysis Batch: 114291							Prep Ba	atch: 1	14301
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1001	-	mg/Kg		100	70 - 130	5	35

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Client: CDH Consulting Job ID: 890-8454-1

Project/Site: Westall Line Release

**Matrix: Solid** 

Lab Sample ID: LCSD 880-114301/2-A

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Analysis Batch: 114291

**Prep Batch: 114301** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	1	35
Toluene	0.100	0.09540		mg/Kg		95	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2130		mg/Kg		107	70 - 130	1	35
o-Xylene	0.100	0.1056		mg/Kg		106	70 - 130	0	35

LCSD LCSD

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

%Recovery Qualifier Surrogate Limits 70 - 130 4-Bromofluorobenzene (Surr) 98 70 - 130 1,4-Difluorobenzene (Surr) 102

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

Lab Sample ID: MB 880-114246/1-A

**Matrix: Solid** 

**Client Sample ID: Method Blank** Prep Type: Total/NA

**Analysis Batch: 114289** 

Prep Batch: 114246

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		07/16/25 08:25	07/16/25 22:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/16/25 08:25	07/16/25 22:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/16/25 08:25	07/16/25 22:00	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	07/16/25 08:25	07/16/25 22:00	1
o-Terphenyl	94		70 - 130	07/16/25 08:25	07/16/25 22:00	1

Lab Sample ID: LCS 880-114246/2-A

**Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 114289** 

**Prep Type: Total/NA Prep Batch: 114246** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1091		mg/Kg	_	109	70 - 130	 
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1076		mg/Kg		108	70 - 130	

C10-C28)

LCS LCS

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

**Client Sample ID: Lab Control Sample Dup** 

**Matrix: Solid** 

**Analysis Batch: 114289** 

Lab Sample ID: LCSD 880-114246/3-A

Prep Type: Total/NA **Prep Batch: 114246** 

	Sı	ike LCSI	D LCSD				%Rec		RPD
Analyte	Ad	ded Resu	lt Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics		000 108	1	mg/Kg		108	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1	000 108	6	mg/Kg		109	70 - 130	1	20
C10-C28)									

Client: CDH Consulting Job ID: 890-8454-1

Project/Site: Westall Line Release

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

Lab Sample ID: LCSD 880-114246/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 114289** 

Prep Type: Total/NA

Prep Batch: 114246

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 108 70 - 130 o-Terphenyl 107 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114312/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 114319** 

MB MB

Result Qualifier RL Analyte **MDL** Unit D Prepared Analyzed Dil Fac 10.0 07/17/25 09:08 Chloride <10.0 U mg/Kg

Lab Sample ID: LCS 880-114312/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 114319** 

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 234.8 mg/Kg 90 - 110

Lab Sample ID: LCSD 880-114312/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 114319** 

Spike LCSD LCSD %Rec **RPD** Added Analyte Result Qualifier Unit %Rec Limits RPD Limit 250 90 - 110 Chloride 230.3 mg/Kg 92

Lab Sample ID: MB 880-115878/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 115892** 

MB MB

Result Qualifier **MDL** Unit Analyte RL D Dil Fac Prepared Analyzed <10.0 U 10.0 08/06/25 03:47 Chloride mg/Kg

Lab Sample ID: LCS 880-115878/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 115892** 

Spike LCS LCS %Rec Added Result Qualifier Analyte Unit %Rec Limits Chloride 250 233.0 93 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-115878/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 115892** 

Spike LCSD LCSD %Rec **RPD** Added Analyte Result Qualifier Unit %Rec Limits **RPD** Limit 90 - 110 Chloride 250 234.2 mg/Kg 94

# **QC Association Summary**

Client: CDH Consulting Job ID: 890-8454-1

Project/Site: Westall Line Release

### **GC VOA**

#### **Analysis Batch: 114291**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8454-7	BFTS	Total/NA	Solid	8021B	114301
890-8454-8	BFC	Total/NA	Solid	8021B	114301
MB 880-114291/8	Method Blank	Total/NA	Solid	8021B	
MB 880-114301/5-A	Method Blank	Total/NA	Solid	8021B	114301
LCS 880-114301/1-A	Lab Control Sample	Total/NA	Solid	8021B	114301
LCSD 880-114301/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114301

#### **Prep Batch: 114301**

<b>Lab Sample ID</b> 890-8454-7	Client Sample ID  BFTS	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
890-8454-8	BFC	Total/NA	Solid	5035	
MB 880-114301/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114301/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114301/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

#### **Analysis Batch: 114384**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8454-7	BFTS	Total/NA	Solid	Total BTEX	
890-8454-8	BFC	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 114246

<b>Lab Sample ID</b> 890-8454-7	Client Sample ID  BFTS	Prep Type Total/NA	Matrix Solid	Method Prep B 8015NM Prep	Batch
890-8454-8	BFC	Total/NA	Solid	8015NM Prep	
MB 880-114246/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114246/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 114289**

<b>Lab Sample ID</b> 890-8454-7	Client Sample ID BFTS	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 114246
890-8454-8	BFC	Total/NA	Solid	8015B NM	114246
MB 880-114246/1-A	Method Blank	Total/NA	Solid	8015B NM	114246
LCS 880-114246/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114246
LCSD 880-114246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114246

#### **Analysis Batch: 114370**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8454-7	BFTS	Total/NA	Solid	8015 NM	
890-8454-8	BFC	Total/NA	Solid	8015 NM	

#### **HPLC/IC**

#### Leach Batch: 114312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8454-1	BFN	Soluble	Solid	DI Leach	
890-8454-2	BFE	Soluble	Solid	DI Leach	
890-8454-3	BFS	Soluble	Solid	DI Leach	
890-8454-4	BFW	Soluble	Solid	DI Leach	
890-8454-5	BFF 1	Soluble	Solid	DI Leach	

# **QC Association Summary**

Client: CDH Consulting

Project/Site: Westall Line Release

Job ID: 890-8454-1

# **HPLC/IC (Continued)**

#### Leach Batch: 114312 (Continued)

<b>Lab Sample ID</b> 890-8454-6	Client Sample ID  BFF 2	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-114312/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-114312/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-114312/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

#### **Analysis Batch: 114319**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8454-1	BFN	Soluble	Solid	300.0	114312
890-8454-2	BFE	Soluble	Solid	300.0	114312
890-8454-3	BFS	Soluble	Solid	300.0	114312
890-8454-4	BFW	Soluble	Solid	300.0	114312
890-8454-5	BFF 1	Soluble	Solid	300.0	114312
890-8454-6	BFF 2	Soluble	Solid	300.0	114312
MB 880-114312/1-A	Method Blank	Soluble	Solid	300.0	114312
LCS 880-114312/2-A	Lab Control Sample	Soluble	Solid	300.0	114312
LCSD 880-114312/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114312

#### Leach Batch: 115878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8454-7	BFTS	Soluble	Solid	DI Leach	
890-8454-8	BFC	Soluble	Solid	DI Leach	
MB 880-115878/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115878/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115878/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

#### **Analysis Batch: 115892**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8454-7	BFTS	Soluble	Solid	300.0	115878
890-8454-8	BFC	Soluble	Solid	300.0	115878
MB 880-115878/1-A	Method Blank	Soluble	Solid	300.0	115878
LCS 880-115878/2-A	Lab Control Sample	Soluble	Solid	300.0	115878
LCSD 880-115878/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115878

Client: CDH Consulting Project/Site: Westall Line Release

**Client Sample ID: BFN** Lab Sample ID: 890-8454-1 Date Collected: 07/16/25 08:21

**Matrix: Solid** 

Date Received: 07/16/25 11:34

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			114312	SA	EET MID	07/17/25 08:00
Soluble	Analysis	300.0		5	114319	SMC	EET MID	07/17/25 10:09

Lab Sample ID: 890-8454-2 **Client Sample ID: BFE** 

Matrix: Solid

Date Collected: 07/16/25 08:37 Date Received: 07/16/25 11:34

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			114312	SA	EET MID	07/17/25 08:00
Soluble	Analysis	300.0		1	114319	SMC	EET MID	07/17/25 10:17

**Client Sample ID: BFS** Lab Sample ID: 890-8454-3

Date Collected: 07/16/25 08:44 **Matrix: Solid** 

Date Received: 07/16/25 11:34

Batch Batch Dilution Batch **Prepared Prep Type** Method Number Analyst or Analyzed Type Run **Factor** Lab 07/17/25 08:00 Soluble Leach DI Leach 114312 SA EET MID Soluble Analysis 300.0 5 114319 SMC **FFT MID** 07/17/25 10:40

Client Sample ID: BFW Lab Sample ID: 890-8454-4

Date Collected: 07/16/25 08:50 Matrix: Solid

Date Received: 07/16/25 11:34

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			114312	SA	EET MID	07/17/25 08:00
Soluble	Analysis	300.0		5	114319	SMC	EET MID	07/17/25 10:48

Client Sample ID: BFF 1 Lab Sample ID: 890-8454-5

Date Collected: 07/16/25 08:58 **Matrix: Solid** 

Date Received: 07/16/25 11:34

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			114312	SA	EET MID	07/17/25 08:00
Soluble	Analysis	300.0		10	114319	SMC	EET MID	07/17/25 10:55

Client Sample ID: BFF 2 Lab Sample ID: 890-8454-6

Date Collected: 07/16/25 09:09 **Matrix: Solid** 

Date Received: 07/16/25 11:34

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			114312	SA	EET MID	07/17/25 08:00
Soluble	Analysis	300.0		1	114319	SMC	EET MID	07/17/25 11:03

#### **Lab Chronicle**

Client: CDH Consulting Job ID: 890-8454-1

Project/Site: Westall Line Release

Date Received: 07/16/25 11:34

**Client Sample ID: BFTS** 

Lab Sample ID: 890-8454-7 Date Collected: 07/16/25 09:15

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			114301	MNR	EET MID	07/17/25 07:50
Total/NA	Analysis	8021B		1	114291	MNR	EET MID	07/17/25 08:14
Total/NA	Analysis	Total BTEX		1	114384	SA	EET MID	07/17/25 08:14
Total/NA	Analysis	8015 NM		1	114370	SA	EET MID	07/17/25 08:58
Total/NA	Prep	8015NM Prep			114246	FC	EET MID	07/16/25 08:25
Total/NA	Analysis	8015B NM		1	114289	TKC	EET MID	07/17/25 08:58
Soluble	Leach	DI Leach			115878	SA	EET MID	08/05/25 12:56
Soluble	Analysis	300.0		1	115892	CS	EET MID	08/06/25 04:38

**Client Sample ID: BFC** Lab Sample ID: 890-8454-8

Date Collected: 07/16/25 09:23 **Matrix: Solid** Date Received: 07/16/25 11:34

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			114301	MNR	EET MID	07/17/25 07:50
Total/NA	Analysis	8021B		1	114291	MNR	EET MID	07/17/25 08:35
Total/NA	Analysis	Total BTEX		1	114384	SA	EET MID	07/17/25 08:35
Total/NA	Analysis	8015 NM		1	114370	SA	EET MID	07/17/25 09:14
Total/NA	Prep	8015NM Prep			114246	FC	EET MID	07/16/25 08:25
Total/NA	Analysis	8015B NM		1	114289	TKC	EET MID	07/17/25 09:14
Soluble	Leach	DI Leach			115878	SA	EET MID	08/05/25 12:56
Soluble	Analysis	300.0		1	115892	CS	EET MID	08/06/25 04:55

**Laboratory References:** 

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

# **Accreditation/Certification Summary**

Client: CDH Consulting Job ID: 890-8454-1

Project/Site: Westall Line Release

### **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	<b>Expiration Date</b>
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for which the agency	does not offer certification		, , ,	ity. This list may inclu

# **Method Summary**

Client: CDH Consulting

Project/Site: Westall Line Release

Job ID: 890-8454-1

ocol Laboratory			
	col	Laboratory	

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
3015B 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
3015NM Prep	Microextraction	SW846	EET MID
Ol 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

**Eurofins Carlsbad** 

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# **Sample Summary**

Client: CDH Consulting

Project/Site: Westall Line Release

Job ID: 890-8454-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8454-1	BFN	Solid	07/16/25 08:21	07/16/25 11:34	0-4
890-8454-2	BFE	Solid	07/16/25 08:37	07/16/25 11:34	0-4
890-8454-3	BFS	Solid	07/16/25 08:44	07/16/25 11:34	0-4
890-8454-4	BFW	Solid	07/16/25 08:50	07/16/25 11:34	0-4
890-8454-5	BFF 1	Solid	07/16/25 08:58	07/16/25 11:34	4.5
890-8454-6	BFF 2	Solid	07/16/25 09:09	07/16/25 11:34	4.5
890-8454-7	BFTS	Solid	07/16/25 09:15	07/16/25 11:34	
890-8454-8	BEC:	Solid	07/16/25 09:23	07/16/25 11:34	

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890-8454 Chain of Custody

Revised Date: 08/25/2020 Rev. 2020.

Date/Time

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# 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) 992-7550, Carisbad, NM (575) 988-3199

**Environment Testing** 

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Xenco

Project Manager:	Devin Girtin	His Chi	8	Bill to: (if different)	ent)	CHA	CASH CONSULTING	2	Work Order Comments	omments		
Company Name:	MU JUM OPERATION	Speratir		Company Name:	ë:				Program: UST/PST ☐ PRP ☐ Bro	Brownfields ☐ RRC ☐	Superfund	
Address:		•		Address:					State of Project:			
City, State ZIP:			O	City, State ZIP:					Reporting: Level   Level     PST/UST   TRRP   Level	PST/UST TRRP	Level IV	
Phone:	303-895-7566	-756v	Email:	dgirt	MO	Calh	dgirtin @ calh Consultion	ζ	Deliverables: EDD 🗌 ADa	ADaPT Other:		
Project Name:	Westall Line Reloase	e Relacse	Turn Around	puno			ANALY	ANALYSIS REQUEST	ST	Preservative Codes	ve Codes	
Project Number:			Routine	Rush	Pres. Code					None: NO	DI Water: H <sub>2</sub> O	
Project Location:	1 SIMH 000)	UW pr	Due Date:	21-17-P	570					Cool: Cool	MeOH: Me	
Sampler's Name:	)	٥	TAT starts the day received by	y received by	2 %					HCL: HC	HNO 3: HN	
PO #:		th	the lab, if received by 4:30pm	ed by 4:30pm						H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	(Yes No	Wet Ice:	(Yes >No	eters	2	×			H <sub>3</sub> PO <sub>4</sub> : HP		
Samples Received Intact:	ct: (Yes No	Thermometer ID:		Throw		3k		-		NaHSO 4: NABIS		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		2.3	Г	21-				Na 25 20 3: Na SO	8	
Sample Custody Seals:	Yes No N/A		ading:	5° C		٨٥	70	-		Zn Acetate+NaOH: Zn	H: Zn	
Total Containers:		Corrected Temperature:	erature:	2.8		) O	2) 1			NaOH+Ascorbic Acid: SAPC	Acid: SAPC	
			F	100	3- " /4ca5	4	A 1					
Sample Identification	fication Matrix	Sampled	-	Depth Comp	Cont	C	~			Sample Comments	omments	
BFN	5	17:80 5202-01-1		0-4.5 C	_	/						
GFE	8	7-14-2025 18:37		045 6								
845	8	7-16-2015 08:44		0-4.5 C	-							
3FW	8	05:80 GOZA1-L		0-4,5 C	_	/						
BrFi	S	7.16-205 UV:58		4.5 C	_							
BFFA	S			4.5 6	_							
AFTS	S	7.16.202 09:15	51:1	ა }	_	1						
BFC	5	7-16-2025 09	57:60	ر د	_							
0103/ 700C (c+c)	.0007 0000	000	MODEL A	Town 11	40 14	9 6		40	22 - M Ci2 - C Ci 2 / iM - M - M	T C= 11 V 7=		
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Circle Method(s) a	Circle Method(s) and Metal(s) to be analyzed	naryzed	ICLP / SPL	P 50 10 : 8F	CKA SD	AS Ba B	ICLP/SPLP6010 : 8KCKA SD AS Ba Be Cd Cr Co Cu PB Min Mo Ni Se Ag II U	MO INI SE	: Ag II U Hg: 1631 / 245.1 / 74/0 / 74/1	1/4/0/14/1		

Eurofins Kenco. A minimum charge of \$\$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Kenco, but not analyzed. These terms will be enforced unless previously progotated onditions is a property 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 '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

Received by: (Signature) Relinquished by: (Signature) Date/Time Received by: (Signature) Relinquished by: (Signature)

Page 21 of 23

## **Login Sample Receipt Checklist**

Client: CDH Consulting Job Number: 890-8454-2

Login Number: 8454 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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Released to Imaging: 8/28/2025 1:30:57 PM

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## **Login Sample Receipt Checklist**

Job Number: 890-8454-2 Client: CDH Consulting

Login Number: 8454 **List Source: Eurofins Midland** List Number: 2 List Creation: 07/17/25 07:34 AM

Creator: Laing, Edmundo

<6mm (1/4").

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login. **Eurofins Carlsbad** 

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Devin Girtin CDH Consulting 9446 Clermont St, Thornton, Colorado 80229

Generated 7/23/2025 1:59:39 PM

# **JOB DESCRIPTION**

WESTALL LINE RELEASE LOCO HILLS

# **JOB NUMBER**

890-8496-1

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 7/23/2025 1:59:39 PM

Authorized for release by Jodi Allen, Project Manager I Jodi.Allen@et.eurofinsus.com (281)520-2865 1

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Client: CDH Consulting

Laboratory Job ID: 890-8496-1 Project/Site: WESTALL LINE RELEASE SDG: LOCO HILLS

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# **Definitions/Glossary**

Client: CDH Consulting Job ID: 890-8496-1 Project/Site: WESTALL LINE RELEASE

SDG: LOCO HILLS

#### **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 **Quality Control** QC

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

#### **Case Narrative**

Client: CDH Consulting Job ID: 890-8496-1

Project: WESTALL LINE RELEASE

Job ID: 890-8496-1 Eurofins Carlsbad

# Job Narrative 890-8496-1

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 7/22/2025 2:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: BFN (890-8496-1) and BFS (890-8496-2).

#### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-114762 and analytical batch 880-114796 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

**Eurofins Carlsbad** 

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#### **Client Sample Results**

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-8496-1

SDG: LOCO HILLS

**Client Sample ID: BFN** Lab Sample ID: 890-8496-1 Date Collected: 07/22/25 09:23

Matrix: Solid

Date Received: 07/22/25 14:02 Sample Depth: 0-4.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte

Dil Fac RL MDL Unit D Prepared Analyzed 9.94 07/23/25 12:23 Chloride 399 F1 mg/Kg

**Client Sample ID: BFS** Lab Sample ID: 890-8496-2

Date Collected: 07/22/25 09:32 Date Received: 07/22/25 14:02

**Matrix: Solid** 

Sample Depth: 0-4.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier MDL Unit D Dil Fac RL Prepared Analyzed 9.92 07/23/25 12:46 405 Chloride mg/Kg

#### QC Sample Results

Client: CDH Consulting Job ID: 890-8496-1 Project/Site: WESTALL LINE RELEASE

SDG: LOCO HILLS

**Prep Type: Soluble** 

**Client Sample ID: BFN** 

**Client Sample ID: BFN** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114762/1-A

**Matrix: Solid** 

Analysis Batch: 114796

MB MB

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 mg/Kg 07/23/25 10:13

Lab Sample ID: LCS 880-114762/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 114796

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 225.8 mg/Kg 90 90 - 110

Lab Sample ID: LCSD 880-114762/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 114796

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 229.4 92 20 mg/Kg 90 - 110

Lab Sample ID: 890-8496-1 MS

**Matrix: Solid** 

Analysis Batch: 114796

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 619.2 F1 Chloride 399 F1 249 88 90 - 110 mg/Kg

Lab Sample ID: 890-8496-1 MSD

**Matrix: Solid** 

Analysis Batch: 114796

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 399 F1 249 621.0 F1 mg/Kg 89 90 - 110 0 20

# **QC Association Summary**

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-8496-1 SDG: LOCO HILLS

#### HPLC/IC

#### Leach Batch: 114762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8496-1	BFN	Soluble	Solid	DI Leach	
890-8496-2	BFS	Soluble	Solid	DI Leach	
MB 880-114762/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-114762/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-114762/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8496-1 MS	BFN	Soluble	Solid	DI Leach	
890-8496-1 MSD	BFN	Soluble	Solid	DI Leach	

#### Analysis Batch: 114796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8496-1	BFN	Soluble	Solid	300.0	114762
890-8496-2	BFS	Soluble	Solid	300.0	114762
MB 880-114762/1-A	Method Blank	Soluble	Solid	300.0	114762
LCS 880-114762/2-A	Lab Control Sample	Soluble	Solid	300.0	114762
LCSD 880-114762/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114762
890-8496-1 MS	BFN	Soluble	Solid	300.0	114762
890-8496-1 MSD	BFN	Soluble	Solid	300.0	114762

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#### **Lab Chronicle**

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-8496-1

SDG: LOCO HILLS

Lab Sample ID: 890-8496-1

Matrix: Solid

Matrix: Solid

**Client Sample ID: BFN** Date Collected: 07/22/25 09:23

Date Received: 07/22/25 14:02

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			114762	SA	EET MID	07/22/25 16:45
Soluble	Analysis	300.0		1	114796	CS	EET MID	07/23/25 12:23

**Client Sample ID: BFS** Lab Sample ID: 890-8496-2

Date Collected: 07/22/25 09:32

Date Received: 07/22/25 14:02

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			114762	SA	EET MID	07/22/25 16:45
Soluble	Analysis	300.0		1	114796	CS	EET MID	07/23/25 12:46

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
SD

Job ID: 890-8496-1 SDG: LOCO HILLS

**Laboratory: Eurofins Midland** 

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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# **Method Summary**

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-8496-1

SDG: LOCC

)	HIL	LS	

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

**Eurofins Carlsbad** 

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# Sample Summary

Client: CDH Consulting

Project/Site: WESTALL LINE RELEASE

Job ID: 890-8496-1 SDG: LOCO HILLS

Lab Camarla ID	Oliant Oanala ID	Madeire	0-1141	Deschool	
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8496-1	BFN	Solid	07/22/25 09:23	07/22/25 14:02	0-4.5
890-8496-2	BFS	Solid	07/22/25 09:32	07/22/25 14:02	0-4.5

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Revised Date: 08/25/2020 Rev. 2020.2

Date/Time

Received by: (Signature)

A Relinquished by: (Signature)

eived by: (Signature)

Relinquished by: (Signature)

Chain of Custody

	Work Order No:		www.xenco.com Page / of /	Work Order Comments
Houston TX (981) 940-4900 Dallac TX (914) 000-	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	Bill to: (if different) CDH CODSUITING
	Environment Testing	Xenco		Devin GINTIN
				ct Manager:

Project Manager:	Dovin GIRTIN	2	8	Bill to: (if different)		SHOW	CDH Consulting	Work	Work Order Comments	
Company Name:	MR NM OF	NM Operating		Company Name:				Program: UST/PST PRP	Brownfields RRC	Superfund
Address:				Address:				State of Project:		
City, State ZIP:			0	City, State ZIP:				Reporting: Level II Leve	Reporting: Level II	/el≀∨ □
Phone:	303-895-7556	56	Email: (	Jantin	@cd1	Email: Ofgertine Codh Consult. Com	. Com	Deliverables: EDD	ADaPT Other:	
Project Name:	Mestall une Beleuse	20/00.50	Turn Around	puno			ANALYSIS REQUEST	EQUEST	Preservative Codes	
Project Number:			Routine	KRush	Pres. Code				None: NO DI Wa	Di Water: H <sub>2</sub> O
Project Location:	1000 HUB DIM		Due Date: 7.1	23 2015					Cool: Cool MeOH: Me	Me
Sampler's Name:	hakoatan (ve	veto TAT	TAT starts the day received by	ly received by					HCL: HC HNO 3: HN	Z
PO #:	1		e lab, if receiv	the lab, if received by 4:30pm	9				H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na	Na
SAMPLE RECEIPT	Tempelank:	Yes No W	Wet Ice:	Yes No	etete		890-8496 Chain of Custody	of Custody	H₃PO 4: HP	
Samples Received Intact:	tact: (Ves / Ja	Thermometer ID:		COOME		ð			NaHSO 4: NABIS	
Cooler Custody Seals:	Yes No NA	Correction Factor:		7.0-		q			Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes No(N/A	Temperature Reading:	iding:	3.2		11			Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:	erature:	3.0	٧	ogr			NaOH+Ascorbic Acid: SAPC	U
Sample Identification	ntification Matrix	Date	Time	Depth Grab/	# of Cont	Y7'			Sample Comments	8
BFN	S	7:12 WS 09	04:23 0	0-45 C	-					
8FS	S	7.12.2015 09:3d		0-4.5 C	-					
		- Japas	AAGGC1 A	150000	_   S	7 0 0 0 0		MAZ MAZ NI: V CZ AZ CiO	N Cr II Co II V	
Circle Method(s) ar	lotal 200.7 / 60 for Z00.8 / 60 z0: Circle Method(s) and Metal(s) to be analyzed	SHUR	SKUKA ISPPINI TCLP / SPLF	P 6010 : 8RC	RA Sb	Al SD As Ba be b CU CRA Sb As Ba Be Cd C	r Co C	TI U	245.1/7	
Notice: Stonature of this de	havive-stansaria of this document and relinquishment of samples constitutes a valid burchase order from client combany to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions	es constitutes a valid pu	urchase order	from client company to	v to Eurofins	Xenco. Its affiliates and	subcontractors. It assigns standar	terms and conditions		
of service. Eurofins Xenco	of service. Brinding kenne word in the latest of samples and shall not assume any responsibility for any losses of expenses incurred by the client if such losses are due to circumstances beyond the control for service. Brinding kenne which the control for the same for the control for the client if such losses are due to circumstances beyond the control for the client if such losses are due to circumstances beyond the control for the client if such losses are due to circumstances beyond the control for the client if such losses are due to circumstances beyond the control for the client if such losses are due to circumstances beyond the control for the client if such losses are due to circumstances beyond the control for the client if such losses are due to circumstances are due to circumstances.	les and shall not assum	ne any responsi	bility for any losses	or expenses I	ncurred by the client if	f such losses are due to circumstanc	es beyond the control		
of Eurofins Xenco. A minit	of Eurofins Xenco. A minimum charge of 885.00 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	to each project and a cl	harge of \$5 for	each sample subm	tted to Eurof	ins Xenco, but not ana	iyzed. These terms will be enforced	unless previously negotlated.		

Date/Time

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### **Login Sample Receipt Checklist**

Client: CDH Consulting

Job Number: 890-8496-1

SDG Number: LOCO HILLS

Login Number: 8496 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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

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### **Login Sample Receipt Checklist**

Client: CDH Consulting

Job Number: 890-8496-1 SDG Number: LOCO HILLS

Login Number: 8496 **List Source: Eurofins Midland** List Number: 2

List Creation: 07/23/25 08:38 AM

Creator: Vasquez, Julisa

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

**Eurofins Carlsbad** 

<6mm (1/4").

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 492800

#### **QUESTIONS**

Operator:	OGRID:
MR NM Operating LLC	330506
5950 Berkshire Lane	Action Number:
Dallas, TX 75225	492800
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2322554757
Incident Name	NAPP2322554757 WATER DISPOSAL FLOWLINE RELEASE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

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

ncident 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.		

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 2

Action 492800

QUESTI	ONS (continued)
Operator:  MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506 Action Number: 492800 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
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.	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 s	rafety 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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Ginger Fast Title: Consultant Email: gfast@CDHConsult.com Date: 10/04/2024

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

Phone: (505) 629-6116 Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 492800

**QUESTIONS** (continued)

Operator:	OGRID:
MR NM Operating LLC	330506
5950 Berkshire Lane	Action Number:
Dallas, TX 75225	492800
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

# 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 elease 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 ar	nd 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
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in m	illigrams 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 complete which includes the anticipated timelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
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)	07/22/2025
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	ne 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.

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 4

Action 492800

**QUESTIONS** (continued)

Operator:	OGRID:
MR NM Operating LLC	330506
5950 Berkshire Lane	Action Number:
Dallas, TX 75225	492800
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	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

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: gfast@CDHConsult.com

Date: 08/06/2025

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.

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 492800

**QUESTIONS** (continued)

Operator:	OGRID:
MR NM Operating LLC	330506
5950 Berkshire Lane	Action Number:
Dallas, TX 75225	492800
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

QUESTIONS, Page 6

Action 492800

**QUESTIONS** (continued)

Operator:	OGRID:
MR NM Operating LLC	330506
5950 Berkshire Lane	Action Number:
Dallas, TX 75225	492800
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### 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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	7870
What was the total volume (cubic yards) remediated	3935
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Remediation activities included delineation, excavation, and backfilling.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement

Name: Ginger Fast
Title: Consultant
Email: gfast@CDHConsult.com
Date: 08/06/2025

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

QUESTIONS, Page 7

Action 492800

**QUESTIONS** (continued)

Operator:	OGRID:
MR NM Operating LLC	330506
5950 Berkshire Lane	Action Number:
Dallas, TX 75225	492800
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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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 492800

#### **CONDITIONS**

Operator:	OGRID:
MR NM Operating LLC	330506
5950 Berkshire Lane	Action Number:
Dallas, TX 75225	492800
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved with the following condition:	8/28/2025
scwells	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Confirmation samples were collected on 7/16/25 and 7/22/25 but no C-141N was submitted. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC.	8/28/2025