<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources 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	NCE2003757811
District RP	
Facility ID	
Application ID	

Release Notification

			Kes]	ponsi	bie Party	Y					
Responsible	Party Hilcon	rp Energy Compa	ny		OGRID 3	OGRID 372171					
Contact Nam	Contact Name Lindsay Dumas					Contact Telephone 832-839-4585					
Contact ema	Contact email ldumas@hilcorp.com Incie					(assigned by OCD) NR	M2006560641				
Contact mail	Contact mailing address 1111 Travis St., Houston, TX 77002										
			Location	ı of R	Release So	ource					
Latitude 36.6	1179					107.29706					
			(NAD 83 in de	ecimal de	egrees to 5 decin	• •					
Site Name Sa					Site Type	Gas Well					
Date Release	Discovered	1/11/2020			API# (if app	licable) 30-039-07225					
Unit Letter	Section	Township	Range		Coun	tsz					
M	31	28N	04W	Rio	Arriba	ity					
Surface Owne		Federal T	Nature an	d Vo	lume of I	Release justification for the volu	,				
Crude Oi		Volume Release			Volume Recovered (bbls)						
Produced	Water	Volume Release	ed (bbls) 12 bbls			Volume Recovered (bbls) 2 bbls					
		produced water		chlorid	e in the	☐ Yes ☐ No					
Condensa	ite	Volume Release	ed (bbls) 72 bbls			Volume Recovere	ed 8 bbls				
Natural C	Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)						
Other (describe) Volume/Weight Released (provide units			s) Volume/Weight Recovered (provide units)								
	vas the resul	its of a pipe freezing the bermed are	ng near the produc	ction ta	nk, which all	owed some of the c	contents of the tank to ru	n out on to			

Was this a major	If YES, for what reason(s) does the r	responsible party co	nsider this a major release?
release as defined by 19.15.29.7(A) NMAC?	Per 19.15.29.7 (A)(a) an unauthorize	ed release of a volun	ne. excluding gas, of >25 bbls
	()()		
Yes No			
If YES was immediate n	lotice given to the OCD? By whom?	To whom? When ar	nd by what means (phone email etc)?
Yes, by Clayton Hamilton		nith (NMOCD), Var	nessa Fields (NMOCD), Whitney Thomas (BLM),
	Initia	ıl Response	
The responsible	party must undertake the following actions imm	ediately unless they coul	d create a safety hazard that would result in injury
The source of the rele	ease has been stopped.		
The impacted area ha	as been secured to protect human health	h and the environme	ent.
Released materials ha	ave been contained via the use of berm	ns or dikes, absorber	t pads, or other containment devices.
All free liquids and re	ecoverable materials have been remove	ed and managed app	propriately.
If all the actions describe	ed above have <u>not</u> been undertaken, exp	olain why:	
Per 19 15 29 8 B (4) NM	AC the responsible party may comme	ence remediation im	mediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If reme	edial efforts have be	een successfully completed or if the release occurred
		,· 1	l information needed for closure evaluation.
			rledge and understand that pursuant to OCD rules and rform corrective actions for releases which may endanger
public health or the environ	ment. The acceptance of a C-141 report by	the OCD does not re	lieve the operator of liability should their operations have er, surface water, human health or the environment. In
addition, OCD acceptance o	of a C-141 report does not relieve the opera	tor of responsibility for	or compliance with any other federal, state, or local laws
and/or regulations.			
Printed Name:Lin	ndsay Dumas	Title:	Environmental Specialist
Signature:	Date:4/23/2020		
email:ldumas@	hilcorp.com	Telephone:	8328394585
OCD Only			
Received by:		Date:	
		<u> </u>	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil

Characterization Report Checklist: Each of the following items must be included in the report.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps
☐ Laboratory data including chain of custody

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.								
Printed Name:	_Lindsay Dumas		Title:	_Environmental Specialist				
Signature:		Date: _	_4/23/2020					
email:	ldumas@hilcorp.com		-	Telephone:8328394585				
OCD Only								
Received by:				Date:				

Received by OCD: 9/16/2020 1:43:02 PM State of New Mexico
Page 5 Oil Conservation Division

	Page 5 of	43
Incident ID		
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation point ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29. ☑ Proposed schedule for remediation (note if remediation plan times) 	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	afirmed as part of any request for deferral of remediation.
	roduction equipment where remediation could cause a major facility
X Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Lindsay Dumas	Title: Environmental Specialist
Signature:	0.15.00
email: Ldumas@hilcorp.com	Telephone: 832-465-7304
OCD Only	
Received by:	Date:
Approved	Approval
Signature:	Date:



REMEDIATION WORK PLAN

SJ 28-4 UNIT #18 NCE2003757811 RIO ARRIBA COUNTY, NEW MEXICO

April 27, 2020

Prepared for:

MS. LINDSAY DUMAS HILCORP LOWER 48 1111 Travis St. Houston, Texas 77002

Prepared by:

LT ENVIRONMENTAL, INC. 848 East Second Avenue Durango, Colorado 81301 970.385.1096 A proud member of WSP

LT Environmental, Inc.

848 East Second Avenue Durango, Colorado 81301 970.385.1096

April 27, 2020

Mr. Cory Smith
Environmental Specialist
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

RE: Remediation Work Plan
Hilcorp Energy Company
SJ 28-4 Unit #18 – NCE2003757811
Rio Arriba County, New Mexico

Dear Mr. Smith:

LT Environmental, on the behalf of Hilcorp Energy Corporation (Hilcorp), is pleased to present this Remediation Work Plan to address remediation of impacted soil at the SJ 28-4 Unit #18 natural gas production well (Site) located in unit letter M of Section 31, Township 28 North, Range 4 West, in Rio Arriba County, New Mexico (Figure 1). This Work Plan is being submitted to detail a plan for biopiling the recovered impacted soil. Once the closure standards are achieved, Hilcorp will backfill the original excavation with the remediated soil.

SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of 19.15.29.12 New Mexico Administrative Code (NMAC). The Site is approximately 524 feet north of an unnamed first-order tributary to Tecolote Canyon Wash and approximately 4,573 feet north of the Tecolote Canyon Wash. Multiple first-, second-, and third-order tributaries to Muñoz Creek, Tecolote Canyon Wash, and Vigas Canyon Wash are located within one mile of the Site (Figure 2). The Site is greater than 200 feet from any lakebed, natural spring, sinkhole, or playa lake. The Site is greater the 300 feet from any wetland. The Site is greater than 1,000 feet from any freshwater well or spring. The site is greater than 300 feet from any mapped wetland.

Land use surrounding the Site consists of natural gas development and livestock grazing areas. No occupied permanent residences, schools, hospitals, institutions, or churches are within 300 feet of the Site. The nearest residence is located approximately 4.43 miles northeast of the Site. The Site is not within the area of a subsurface mine or unstable area and is not within the 100-year flood plain (Figure 2).

The closest permitted water well to the Site is SP-04028, located approximately 9,373 feet northeast of the Site, but it does not have any recorded water data published. The nearest water well with recorded data is the Harrington Well No. 1 (SJ-00046). (Figure 2). Depth to water is



reported at 260 feet bgs and total depth of the well is 506 feet bgs. Lateral distance from the Site to the Harrington Well No. 1 is approximately 3.45 miles. The Site is approximately 741 feet higher in elevation that the Harrington Well No. 1 and approximately 694 feet higher in elevation than the closest major hydrologic feature (Campañero Arroyo, 2.66 miles south). Based on this information, groundwater is likely greater than 100 feet bs at the site.

Geology at the Site was determined through observations during excavation of impacted soil and a review of the geologic data available for the area. Near-surface sediments consist mainly of silty sand with minor occurrences of clay. Compacted and lithified sandstones and claystone are the dominant bedrock lithology that occur between five and ten feet below the surface in this area.

Due to the Site having a depth to groundwater greater than 100 feet, the following NMOCD Table 1 Closure Criteria apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 2,500 mg/kg total petroleum hydrocarbons (TPH); 1,000 mg/kg gasoline range organics (GRO)+diesel range organics (DRO); and 20,000 mg/kg chloride.

SITE HISTORY

On January 11, 2020 Hilcorp Energy Company (Hilcorp) discovered a release of approximately 12 barrels (bbls) of produced water and 72 bbls of condensate at the Site. The release was a result of a pipe freezing near the production tank, which allowed some of the contents of the tank to run out onto the frozen ground inside the bermed area. Hilcorp notified the New Mexico Oil Conservation Division (NMOCD), the Bureau of Land Management (BLM) and the United States Forest Service (USFS) of the release on January 11, 2020 via email. Hilcorp submitted an initial C141 on January 15, 2020. Hilcorp submitted a revised C-141 was submitted on January 31, 2020 and the release was assigned incident number NCE2003757811.

On January 17, 2020 Hilcorp began the excavation of impacted soil. Hilcorp's excavation is approximately 55 feet by 65 feet and ranges in depth from 2 feet below ground surface (bgs) in the shallow portions to 8 feet bgs in the deeper portions (Figure 3). Hilcorp ultimately removed approximately 450 cubic yards (yd³) of impacted soil and stockpiled the material onsite.

Hilcorp conducted confirmation soil sampling of the excavation on January 27, 2020 and March 9, 2020. A total of seven confirmation soil samples were collected as shown on Figure 3. Both sampling events were witnessed and soil sampling locations were approved by the NMOCD. Hilcorp collected soil samples from the northern side of the excavation on January 27, 2020, and results indicated the soil was below the NMOCD closure criteria. The northern sidewall was then sloped to provide access to deeper impacted soil in other parts of the excavation. During the sampling event on March 9, 2020, Hilcorp personnel and the NMOCD representative confirmed soil in the northern portion of the excavation did not need to be resampled during the final sampling event. The laboratory analytical results from confirmation sampling indicated that all



samples collected complied with NMOCD closure criteria. Confirmation soil sample results are presented in Table 1, displayed on Figure 3, and the laboratory analytical reports are included as Attachment 1.

PROPOSED BIOPILING

The excavated soil remains stockpiled at the Site. As an alternative to trucking to a landfarm more than 50 miles away, Hilcorp proposes to remediate the soils on site through biopiling. LTE has detailed the proposed biopiling design, monitoring, and closure methods below and provided a schedule for NMOCD review and approval.

Hilcorp proposes to create a remediation area at the Site. The surface owner is the United States Forest Service (USFS), which has approved surface use for remediation in the area presented on Figure 4 and as proposed in this remediation work plan. Hilcorp proposes placing biopiles in a bermed remediation area that is approximately 19,600 square feet (Figure 4). The soil will be spread into windrows that are approximately 90 feet in length, 3 feet in width, and 2 feet in height spaced approximately 3 feet apart. Hilcorp will attempt to make the windrows as small as possible given the available space. LTE anticipates creating 23 biopiles of this size that will be placed in a bermed area that is approximately 140 feet long by 140 feet wide (Figure 4). Hilcorp will construct a berm surrounding the entire area that will be approximately 3 feet high in order to prevent the unwanted discharge of soil from run-off events. Because treatment will include tilling, which could destroy a liner, no liner is proposed. Due to the lithology at the Site consisting of silty sand and fine-grained material restricting migration and anticipated depth to groundwater of greater than 100 feet bgs, LTE does not believe residual impact in the treated soil poses a threat to subsurface receptors.

Prior to creating the windrows for biopiling, Hilcorp will add 150 pounds (lbs) of 20-10-5 fertilizer to the impacted soil and mix thoroughly. The 20-10-5 fertilizer consists of 20 percent (%) nitrogen, 10% available phosphate, and 5% soluble potash and is used to boost microbial growth in soils. By increasing microbial activity, the microbial consumption of hydrocarbons is increased. Application rates are based on nitrogen being the most important constituent to promote biological activity within the soil, which requires 3 pounds to 4 pounds of nitrogen per 1,000 ft³ of soil. Optimal concentrations of nitrogen will be monitored and are designed to be between 50 mg/kg and 200 mg/kg. Concentrations above 500 mg/kg inhibit microbial growth and will be avoided. In order to establish a baseline, Hilcorp will sample background concentrations of nitrogen prior to the addition of fertilizer.

Once the biopiles are constructed, Hilcorp will turn, or aerate, the soil weekly to allow for remediation. Each weekly event will include tilling and soil monitoring to ensure remediation is progressing as designed. Soil sampling will be conducted to evaluate degradation of the hydrocarbon constituents and to ensure optimal conditions for bioremediation once a month. Subsequent addition of fertilizer or other amendments is described below and is conditional



based upon soil sample analytical results determined during sample collection to monitor remediation progress.

MONITORING

During each weekly tilling event, Hilcorp will make observations to ensure soil conditions are conducive to volatilization and microbial degradation and inspect the biopiles and berms for potential damage. Observations and inspection results will be recorded on the attached inspection form and available for review at any time. All inspections forms will be included in any reports submitted to NMOCD.

Soil Sampling

Each month, Hilcorp will collect twenty-three 5-point composite samples at equal intervals and various depths from each individual windrow. Hilcorp will avoid collecting sample aliquots from the surface and near surface sections of the piles. The soil headspace from these composite soil samples will be field screened using a photo-ionization detector (PID) to monitor for the presence of volatile organic vapors. The procedure for field screening soil for volatile organic vapors includes:

Calibrate the instrument and record calibration information in the field notes. The following Ambient Temperature Headspace Analysis (ATHA) field screening method will be utilized for the selection of subsurface soil samples; however, state and/or project specific requirements may be used in lieu of the following procedure:

- 1. When collecting samples where splits may be destined for laboratory analysis, collect laboratory supplied sample jars prior to collecting field screening samples to minimize the potential for loss of volatile organic compounds (VOC's).
- 2. Place a consistent amount of soil into a sealable plastic bag and seal tightly or place the soil into a pre-cleaned glass jar, covering the top of the jar with aluminum foil. Label the outside of the bag or the jar with the sample name, depth, time, and date.
- 3. Allow the soil to equilibrate at approximately 70 degrees ($^{\circ}$) Fahrenheit for approximately 10 minutes.
- 4. Place the container on a clean work surface upwind of other volatile organic sources.
- 5. Insert the tip of a PID probe into the corner of the bag or through the foil jar cover to measure the meter reading of the headspace within the container. Allow the meter to equilibrate and then record the maximum measured concentration on the inspection form.



Monitoring samples will be split and submitted for laboratory analysis monthly. Laboratory analysis will include benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method 8021, TPH- GRO, TPH- DRO, and TPH-motor oil range organics (MRO) by EPA Method 8015, pH by Standard Method (SM) 4500 H+B, moisture content by American Standard Test Method (ASTM) D2216-92, Sodium Absorption Ratio (SAR), and nitrogen by SM 4500 NH3. TPH and BTEX results will indicate how much hydrocarbon impact remains in the soil and at what concentration for the different constituents. The nitrogen, pH, and SAR data will indicate if the soil is suitable to allow biologic activity to continue to breakdown hydrocarbons.

When laboratory analytical results indicate that a biopile is below the Closure Criteria for TPH and BTEX, no more aeration or amendment application will occur on that biopile and the result will constitute the closure sample for that biopile.

Moisture Content

In order to maintain optimum microbial hydrocarbon degradation conditions, soil moisture needs to remain between 10% and 20%. Hilcorp will use a soil moisture meter to record moisture content of soil within the stockpiles monthly. Moisture content will be measured from randomly selected places within each stockpile. If moisture content results from an individual biopile indicate values less than 10%, Hilcorp will water the stockpile until moisture contents are above 10% and record the amount of water applied. Hilcorp will take special care not to over-water the soil and prevent the pooling of any liquids within the remediation area.

Temperature

Optimum treatment temperatures for bioremediation range between 65 degrees Fahrenheit (°F) and 85°F. Temperatures should not exceed 135°F. Hilcorp will use an infrared thermometer to measure soil temperatures of each soil piles during the monthly monitoring events. Hilcorp will take the average of 5 temperature readings from the interior of each biopile to evaluate treatment temperatures.

Visual Inspections

Hilcorp will inspect the treatment area for damage to the berm, pooling of liquids, appropriate stabilization of the windrows, evidence of disturbance from stormwater, and the general weather conditions.

Documentation

Inspections must occur prior to mixing or water application. Hilcorp will complete a Weekly Inspection Form that will document field observations and activities including:



- Inspection date;
- Name of inspector;
- Weather;
- Field screening results (PID, temperatures, and moisture content results);
- Calibration records of PID and moisture content %;
- Samples collected for laboratory analysis;
- Time spent mixing soil;
- General site conditions;
- Any breeches of containment documented and repaired;
- Amount of water applied (if any);
- Amendments applied, type, quantity, and locations; and
- Any areas within the remediation areas that have evidence of pooling liquids and actions taken to prevent similar pooling in the future.

All data will be tabulated and monitored for remediation progress. If appropriate progress is not observed, additional actions will be taken as described in the Contingencies section below. The Monthly Inspection Form is included as Attachment 2.

Backfilling

After soil sample results indicate soil has been remediated according to NMOCD Closure Criteria, Hilcorp will submit a report to the NMOCD documenting remediation progress and satisfactory sampling results with a request to backfill the excavation with soil from the biopiles. Once backfilling is approved, Hilcorp will backfill the excavation and conduct vadose zone sampling within the remediation area.

Vadose Zone Sampling

After backfilling the treated soil, Hilcorp will collect 5-point composite soil samples from vadose zone soils beneath the area that biopiles were placed (Figure 5). Hilcorp will also collect additional vadose zone soil samples from areas where water may have collected during rain or watering events. Soil samples be collected from 6 inches below the native soil surface. The locations of the additional vadose zone samples (if any) to be taken beneath areas of where water may have pooled will be determined by the GPS coordinates taken by Hilcorp during the weekly inspections. Vadose zone soil samples will be submitted for laboratory analysis of BTEX by EPA Method 8021, TPH- GRO, TPH- DRO, and TPH- MRO by EPA Method 8015.

If vadose zone samples indicate an exceedance of the Closure Criteria, Hilcorp will remove the top 3 inches of soil beneath where the soil samples were collected. Once the near surface soil is removed, Hilcorp will resample the vadose zone in that area. Hilcorp will continue to remove soil in 3-inch lifts of soil in these areas until the vadose zone sample are compliant with the Closure Criteria. Impacted soil from these areas will all be biopiled as described above.



Reclamation

The total acreage of bare mineral soil expected to result from construction activities is expected to be between 0.1 and 1.0 acre total, and revegetation will follow the Bureau of Land Management – Farmington Field Office BLM-FFO's) *Vegetation Reclamation Procedure A*. Areas of bare mineral soil are expected to be small and localized in nature, and spot seeding will be done by broadcasting by hand in disturbed areas utilizing a BLM-FFO approved seed mix. The seeds will be covered using the most appropriate method as determined by site conditions at the time of seeding, which may include: spreading and crimping straw over the seeded area, raking the area by hand, dragging a chain or chain-linked fence over the seeded area, or applying tackifier/mulch products designed for reclamation purposes. The proposed remediation area will be seeded within 90 days of approval of the closure request, if weather conditions are favorable. If the area is unable to be seeded within this timeframe the BLM-FFO will be consulted to establish an approved time frame for seeding. Hilcorp will provide documentation to the BLM-FFO that the vegetation percent cover standards for the Pinyon-Juniper/sagebrush vegetation community have been attained before the BLM-FFO will issue a final abandonment notice or a relinquishment.

CONTIGENCIES

Hilcorp proposes the following contingencies for lack of remediation progress or unexpected deviations from this Work Plan.

- If moisture content results from an individual biopile indicate values less than 10%, Hilcorp will water the stockpile.
- If temperature or pH values fall out of range of ideal conditions for bioremediation, Hilcorp will propose additional measures to bring improve the conditions based on results and season/weather.
- If soil samples indicate nitrogen concentrations less than 50 mg/kg, more fertilizer will be added to the soil to promote microbial growth and remediation.
- If soil field screening results indicate increasing or stable concentrations of VOCs for three consecutive weeks, MicroBlaze will be applied to individual stockpiles demonstrating this increase. MicroBlaze will be applied at a rate of 0.1 gallons of MicroBlaze and 1 gallon of water (10%) to every cubic yard of soil.
- If concentration of TPH and BTEX do not decrease by at least 25% within the first 30 days of monitoring, an additional dose of MicroBlaze will be added to the biopiles that have not shown a 25% decrease in TPH and BTEX concentrations.
- If TPH and BTEX concentrations do not decrease by 50% within the first 60 days of monitoring, an additional dose of MicroBlaze will be added to the biopiles have not shown a 25% decrease in TPH and BTEX concentrations.



If remediation requires more 75 days, Hilcorp will submit a revised remediation work plan to address remaining impacts.

Reporting

Hilcorp will submit either quarterly reports or a closure request to the NMOCD (based on the soil analytical results) detailing the following from each quarter:

- Field activities;
- Field screening results;
- Laboratory analytical results;
- Additional amendment application (if necessary);
- Any significant weather events and a general summary of the weather during the reporting period;
- Completed inspection forms; and
- Any recommendations.

Hilcorp will submit the quarterly report or a closure request by the last day of the quarter. The first report will be submitted at the end of the quarter when biopiling commences. If remediation has occurred within a single quarter, no quarterly report will be submitted but a request to backfill and closure request will be submitted to the NMOCD.

Timeline

Hilcorp proposes to begin excavating soil and immediate biopiling within two weeks of approval of this Revised Remediation Work Plan. Hilcorp believes remediation will require 75 days to complete, and all remediation and reclamation activities will conclude no later than November 1, 2020. Once soil is remediated and no exceedances are detected in the vadose zone samples, Hilcorp will backfill the excavation with the remediated soil. Hilcorp will submit a closure request to the NMOCD with 60 days of receiving the final laboratory results.

LTE appreciates the opportunity to provide this report to the NMOCD. If you have any questions or comments regarding this Work Plan, do not hesitate to contact Devin Hencmann at (970)-385-1096 or dhencmann@ltenv.com Lindsay Dumas at (281)-794-9159 or at ldumas@hilcorp.com.



Sincerely,

LT ENVIRONMENTAL, INC.

Josh Adams, G.I.T. Staff Geologist Devin Hencmann Project Geologist

S. 59-

cc: Lindsay Dumas, Hilcorp Energy

Attachments:

Figure 1: Site Location Map

Figure 2: Receptor Map

Figure 3: Excavation Soil Samples

Figure 4: Biopile Specification Map

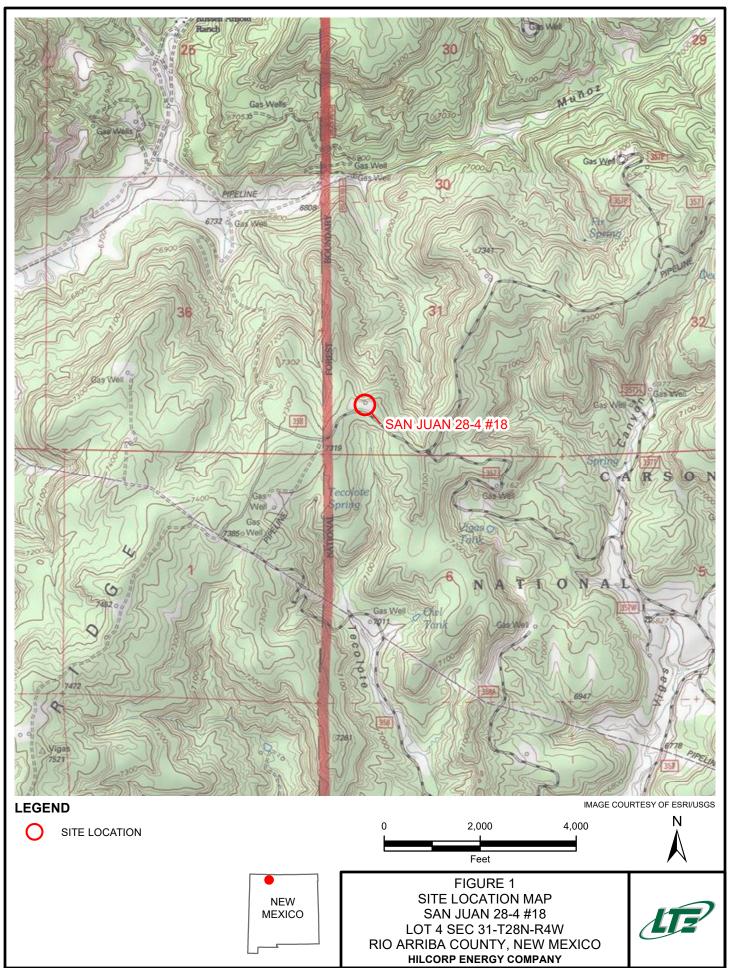
Figure 5: Proposed Vadose Zone Sample Locations

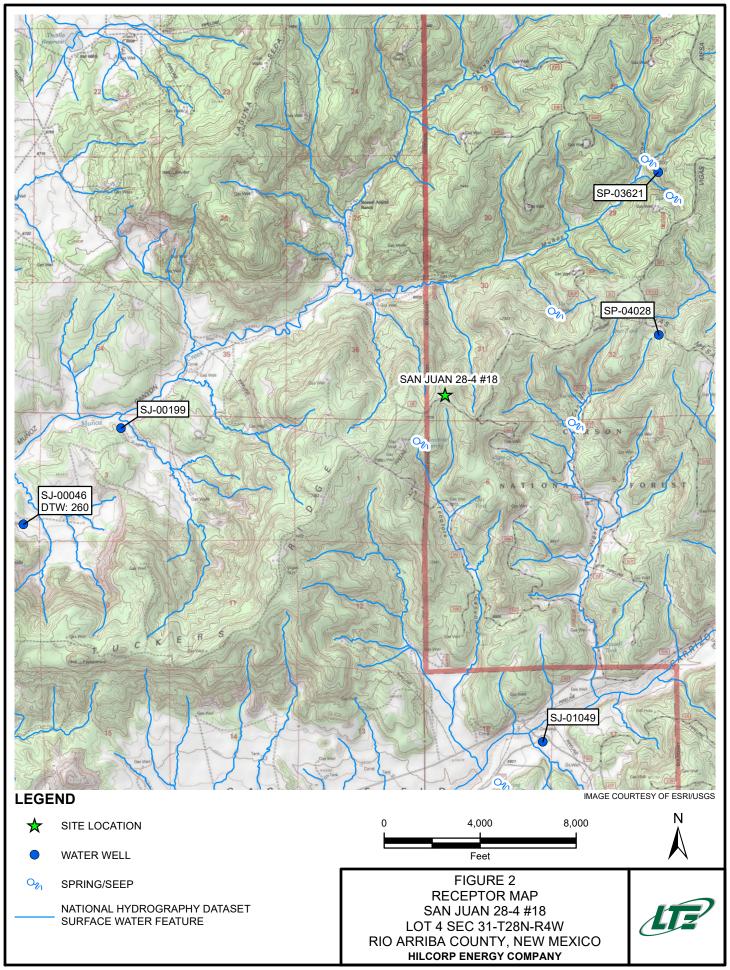
Attachment 1: Laboratory Analytical Results

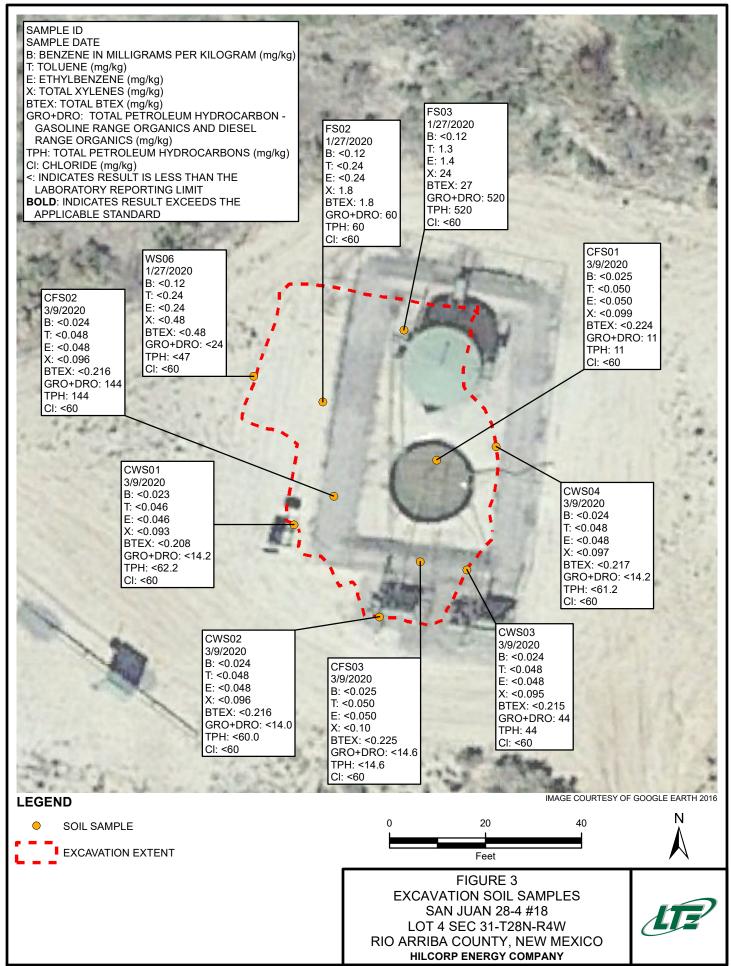
Attachment 2: Weekly Inspection Form

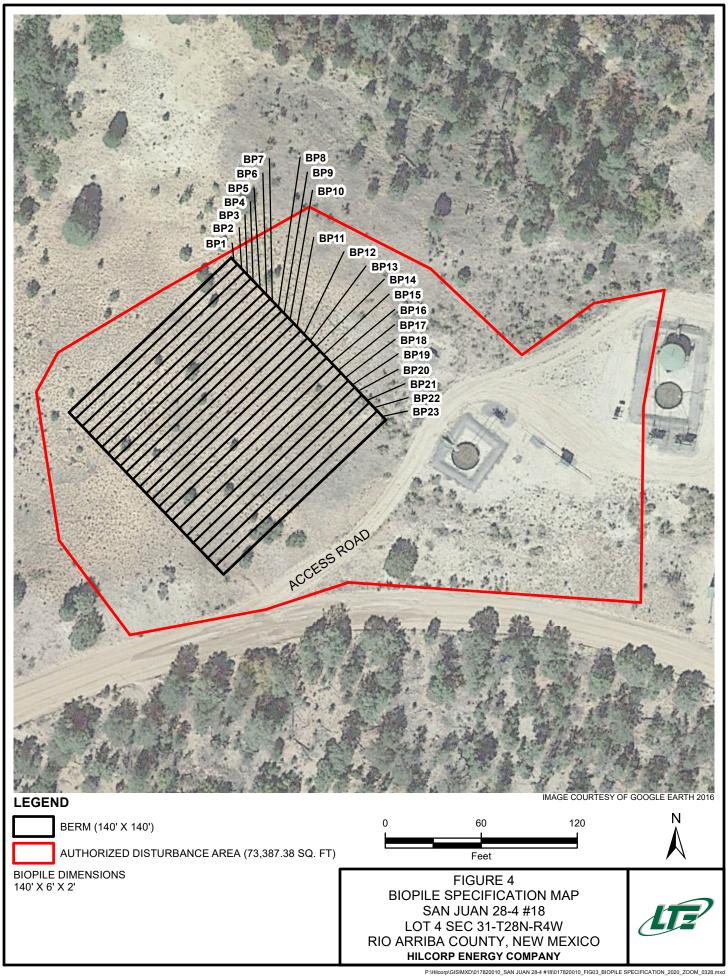
Attachment 3: Photographic log











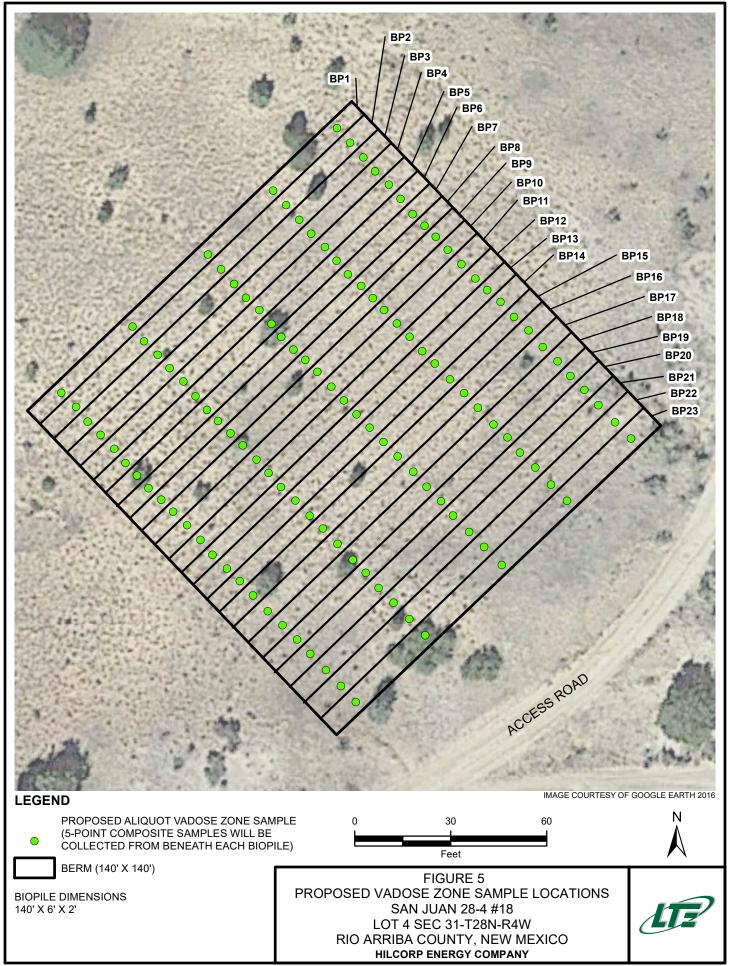




TABLE 1 **SOIL ANALYTICAL RESULTS**

SAN JUAN 28-4 #18 **RIO ARRIBA COUNTY, NEW MEXICO** HILCORP ENERGY COMPANY

Sample Name	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
FS01	1/27/2020	0.38	21	8.9	120	150	1,200	330	<47	1,530	1,530	<60
FS02	1/27/2020	<0.12	<0.24	<0.24	1.8	1.8	27	33	<47	60	60	<60
FS03	1/27/2020	<0.12	1.3	1.4	24	27	350	170	<47	520	520	<60
FS04	2/13/2020	<0.024	<0.048	<0.048	<0.048	<0.048	17	43	<49	60	60	NS
WS01	1/27/2020	0.18	11	5.0	91	107	990	320	<48	1,310	1,310	<60
WS02	1/27/2020	<0.12	2.6	3.0	52	58	590	560	<49	1,150	1,150	<60
WS03	1/27/2020	0.90	97	37	510	645	4,900	1,000	<460	5,900	5,900	<60
WS04	1/27/2020	2.7	86	24	350	463	3,500	570	<500	4,070	4,070	220
WS05	1/27/2020	1.4	36	9.4	190	237	2,300	290	<46	2,590	2,590	<60
WS06	1/27/2020	<0.12	<0.24	<0.24	<0.48	<0.48	<24	<9.4	<47	<24	<47	<60
WS07	1/27/2020	< 0.12	<0.24	<0.24	< 0.47	<0.47	<24	<9.5	<47	<24	<47	<60
WS08	2/4/2020	0.32	9.7	5.3	100	115	1,100	220	<49	1,320	1,320	NS
WS09	2/4/2020	0.032	0.78	0.68	13	14.5	200	140	<49	340	340	NS
WS10	2/13/2020	< 0.024	< 0.047	<0.047	<0.095	<0.095	8.2	10	<47	18.2	18.2	NS
WS11	2/13/2020	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	15	<49	15	15	NS
Spoil	2/4/2020	1.0	34	9.2	150	194.2	2,000	190	<49	2,190	2,190	NS
CWS01	3/9/2020	<0.023	<0.046	<0.046	< 0.093	<0.208	<4.6	<9.6	<48	<14.2	<62.2	<60
CWS02	3/9/2020	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.2	<46	<14.0	<60.0	<60
CWS03	3/9/2020	<0.024	<0.048	<0.048	<0.095	<0.215	15	29	<48	44	44	<59
CWS04	3/9/2020	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.4	<47	<14.2	<61.2	<60
CFS01	3/9/2020	<0.025	<0.050	<0.050	< 0.099	<0.224	<5.0	11	<48	11	11	<60
CFS02	3/9/2020	<0.024	<0.048	<0.048	<0.096	<0.216	59	85	<50	144	144	<60
CFS03	3/9/2020	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.6	<48	<14.6	<62.6	<60
NMOCD Table Criteria	e 1 Closure	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000

Notes:

bgs - below ground surface ORO - motor oil range organics

BTEX - benzene, toluene, ethylbenzene, and † NMAC - New Mexico Administrative Code

DRO - diesel range organics NMOCD - New Mexico Oil Conservation Division

NE - not established GRO - gasoline range organics

mg/kg - milligrams per kilogram

TPH - total petroleum hydrocarbons

< - indicates result is below laboratory reporting limits **BOLD** - indicates results exceed NMOCD Table Closure Criteria

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 24, 2020

Lindsay Dumas HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733

FAX

RE: SJ 28-4 #18 OrderNo.: 2003411

Dear Lindsay Dumas:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/10/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: CWS01

 Project:
 SJ 28-4 #18
 Collection Date: 3/9/2020 10:25:00 AM

 Lab ID:
 2003411-001
 Matrix: SOIL
 Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/13/2020 6:25:04 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/13/2020 6:25:04 PM
Surr: DNOP	102	55.1-146	%Rec	1	3/13/2020 6:25:04 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/14/2020 12:18:42 AM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JMR
Benzene	ND	0.023	mg/Kg	1	3/13/2020 2:05:25 PM
Toluene	ND	0.046	mg/Kg	1	3/13/2020 2:05:25 PM
Ethylbenzene	ND	0.046	mg/Kg	1	3/13/2020 2:05:25 PM
Xylenes, Total	ND	0.093	mg/Kg	1	3/13/2020 2:05:25 PM
Surr: 1,2-Dichloroethane-d4	89.0	70-130	%Rec	1	3/13/2020 2:05:25 PM
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	3/13/2020 2:05:25 PM
Surr: Dibromofluoromethane	94.6	70-130	%Rec	1	3/13/2020 2:05:25 PM
Surr: Toluene-d8	100	70-130	%Rec	1	3/13/2020 2:05:25 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/13/2020 2:05:25 PM
Surr: BFB	94.7	70-130	%Rec	1	3/13/2020 2:05:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 11

Date Reported: 3/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: CWS02

 Project:
 SJ 28-4 #18
 Collection Date: 3/9/2020 10:30:00 AM

 Lab ID:
 2003411-002
 Matrix: SOIL
 Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/13/2020 6:52:34 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/13/2020 6:52:34 PM
Surr: DNOP	104	55.1-146	%Rec	1	3/13/2020 6:52:34 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/14/2020 12:31:02 AM
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	3/13/2020 3:31:15 PM
Toluene	ND	0.048	mg/Kg	1	3/13/2020 3:31:15 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/13/2020 3:31:15 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/13/2020 3:31:15 PM
Surr: 1,2-Dichloroethane-d4	89.7	70-130	%Rec	1	3/13/2020 3:31:15 PM
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	3/13/2020 3:31:15 PM
Surr: Dibromofluoromethane	96.2	70-130	%Rec	1	3/13/2020 3:31:15 PM
Surr: Toluene-d8	101	70-130	%Rec	1	3/13/2020 3:31:15 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/13/2020 3:31:15 PM
Surr: BFB	96.0	70-130	%Rec	1	3/13/2020 3:31:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 11

Date Reported: 3/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: CWS03

 Project:
 SJ 28-4 #18
 Collection Date: 3/9/2020 10:35:00 AM

 Lab ID:
 2003411-003
 Matrix: SOIL
 Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA				Analyst: BRM	
Diesel Range Organics (DRO)	29	9.6	mg/Kg	1	3/13/2020 7:01:43 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/13/2020 7:01:43 PM
Surr: DNOP	102	55.1-146	%Rec	1	3/13/2020 7:01:43 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	59	mg/Kg	20	3/14/2020 10:33:13 AM
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	3/17/2020 6:35:19 PM
Toluene	ND	0.048	mg/Kg	1	3/17/2020 6:35:19 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/17/2020 6:35:19 PM
Xylenes, Total	ND	0.095	mg/Kg	1	3/17/2020 6:35:19 PM
Surr: 1,2-Dichloroethane-d4	98.0	70-130	%Rec	1	3/17/2020 6:35:19 PM
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	3/17/2020 6:35:19 PM
Surr: Dibromofluoromethane	99.0	70-130	%Rec	1	3/17/2020 6:35:19 PM
Surr: Toluene-d8	99.8	70-130	%Rec	1	3/17/2020 6:35:19 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	15	4.8	mg/Kg	1	3/17/2020 6:35:19 PM
Surr: BFB	101	70-130	%Rec	1	3/17/2020 6:35:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 11

Date Reported: 3/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: CWS04

 Project:
 SJ 28-4 #18
 Collection Date: 3/9/2020 10:40:00 AM

 Lab ID:
 2003411-004
 Matrix: SOIL
 Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/13/2020 7:10:53 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/13/2020 7:10:53 PM
Surr: DNOP	103	55.1-146	%Rec	1	3/13/2020 7:10:53 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/14/2020 10:45:37 AM
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	3/13/2020 4:28:17 PM
Toluene	ND	0.048	mg/Kg	1	3/13/2020 4:28:17 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/13/2020 4:28:17 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/13/2020 4:28:17 PM
Surr: 1,2-Dichloroethane-d4	86.0	70-130	%Rec	1	3/13/2020 4:28:17 PM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	3/13/2020 4:28:17 PM
Surr: Dibromofluoromethane	96.5	70-130	%Rec	1	3/13/2020 4:28:17 PM
Surr: Toluene-d8	104	70-130	%Rec	1	3/13/2020 4:28:17 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/13/2020 4:28:17 PM
Surr: BFB	101	70-130	%Rec	1	3/13/2020 4:28:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 11

Date Reported: 3/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: CFS01

 Project:
 SJ 28-4 #18
 Collection Date: 3/9/2020 10:45:00 AM

 Lab ID:
 2003411-005
 Matrix: SOIL
 Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: BRM
Diesel Range Organics (DRO)	11	9.6	mg/Kg	1	3/13/2020 7:20:02 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/13/2020 7:20:02 PM
Surr: DNOP	105	55.1-146	%Rec	1	3/13/2020 7:20:02 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/14/2020 10:58:01 AM
EPA METHOD 8260B: VOLATILES SHORT L	LIST				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/13/2020 4:56:56 PM
Toluene	ND	0.050	mg/Kg	1	3/13/2020 4:56:56 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/13/2020 4:56:56 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/13/2020 4:56:56 PM
Surr: 1,2-Dichloroethane-d4	92.1	70-130	%Rec	1	3/13/2020 4:56:56 PM
Surr: 4-Bromofluorobenzene	94.0	70-130	%Rec	1	3/13/2020 4:56:56 PM
Surr: Dibromofluoromethane	96.1	70-130	%Rec	1	3/13/2020 4:56:56 PM
Surr: Toluene-d8	98.9	70-130	%Rec	1	3/13/2020 4:56:56 PM
EPA METHOD 8015D MOD: GASOLINE RAN	IGE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/13/2020 4:56:56 PM
Surr: BFB	99.2	70-130	%Rec	1	3/13/2020 4:56:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 11

Date Reported: 3/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: CFS02

 Project:
 SJ 28-4 #18
 Collection Date: 3/9/2020 10:50:00 AM

 Lab ID:
 2003411-006
 Matrix: SOIL
 Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	85	9.9	mg/Kg	1	3/13/2020 7:29:10 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/13/2020 7:29:10 PM
Surr: DNOP	108	55.1-146	%Rec	1	3/13/2020 7:29:10 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/14/2020 11:35:14 AM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	3/17/2020 7:03:58 PM
Toluene	ND	0.048	mg/Kg	1	3/17/2020 7:03:58 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/17/2020 7:03:58 PM
Xylenes, Total	0.61	0.096	mg/Kg	1	3/17/2020 7:03:58 PM
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	3/17/2020 7:03:58 PM
Surr: 4-Bromofluorobenzene	77.9	70-130	%Rec	1	3/17/2020 7:03:58 PM
Surr: Dibromofluoromethane	95.2	70-130	%Rec	1	3/17/2020 7:03:58 PM
Surr: Toluene-d8	104	70-130	%Rec	1	3/17/2020 7:03:58 PM
EPA METHOD 8015D MOD: GASOLINE RANG	GE .				Analyst: JMR
Gasoline Range Organics (GRO)	59	4.8	mg/Kg	1	3/17/2020 7:03:58 PM
Surr: BFB	112	70-130	%Rec	1	3/17/2020 7:03:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 11

Date Reported: 3/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: CFS03

Project: SJ 28-4 #18
 Collection Date: 3/9/2020 10:55:00 AM

 Lab ID: 2003411-007
 Matrix: SOIL
 Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/13/2020 7:38:19 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/13/2020 7:38:19 PM
Surr: DNOP	106	55.1-146	%Rec	1	3/13/2020 7:38:19 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/14/2020 11:47:38 AM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/13/2020 5:54:07 PM
Toluene	ND	0.050	mg/Kg	1	3/13/2020 5:54:07 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/13/2020 5:54:07 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/13/2020 5:54:07 PM
Surr: 1,2-Dichloroethane-d4	84.9	70-130	%Rec	1	3/13/2020 5:54:07 PM
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	3/13/2020 5:54:07 PM
Surr: Dibromofluoromethane	93.7	70-130	%Rec	1	3/13/2020 5:54:07 PM
Surr: Toluene-d8	97.7	70-130	%Rec	1	3/13/2020 5:54:07 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/13/2020 5:54:07 PM
Surr: BFB	95.7	70-130	%Rec	1	3/13/2020 5:54:07 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 11

Hall Environmental Analysis Laboratory, Inc.

24-Mar-20

2003411

WO#:

Client: HILCORP ENERGY

Project: SJ 28-4 #18

Sample ID: MB-51099 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51099 RunNo: 67280

Prep Date: 3/13/2020 Analysis Date: 3/13/2020 SeqNo: 2320005 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-51099 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51099 RunNo: 67280

Prep Date: 3/13/2020 Analysis Date: 3/13/2020 SeqNo: 2320006 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.9 90 110

Sample ID: MB-51105 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51105 RunNo: 67316

Prep Date: 3/13/2020 Analysis Date: 3/14/2020 SeqNo: 2320124 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-51105 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51105 RunNo: 67316

Prep Date: 3/13/2020 Analysis Date: 3/14/2020 SeqNo: 2320125 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.7 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003411 24-Mar-20**

Client: HILCORP ENERGY

Project: SJ 28-4 #18

Sample ID: 2003411-001AMS	SampT	ype: MS	3	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: CWS01	Batch	ID: 51 0	069	F	RunNo: 6	7261					
Prep Date: 3/12/2020	Analysis D	ate: 3/	13/2020	S	319778	Units: mg/K	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	58	10	49.80	5.362	105	47.4	136				
Surr: DNOP	5.1		4.980		103	55.1	146				

Sample ID: 2003411-001AMSD	SampT	ype: MS	SD	Test	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: CWS01	Batch	ID: 51 0	069	R	unNo: 6	7261				
Prep Date: 3/12/2020	Analysis D	ate: 3/	13/2020	SeqNo: 2319779 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.6	47.85	5.362	108	47.4	136	1.60	43.4	
Surr: DNOP	5.0		4.785		104	55.1	146	0	0	

Sample ID: LCS-51069	SampTy	ype: LC	S	Test	Code: El	Code: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: 51 0	069	R	RunNo: 67261							
Prep Date: 3/12/2020	Analysis Da	ate: 3/	13/2020	SeqNo: 2319832 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	52	10	50.00	0	105	70	130					
Surr: DNOP	5.2		5.000		104	55.1	146					

Sample ID: MB-51069	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch ID: 51069 Analysis Date: 3/13/2020			F	RunNo: 67261					
Prep Date: 3/12/2020				SeqNo: 2319834			Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.5	55.1	146			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003411 24-Mar-20**

Client: HILCORP ENERGY

Project: SJ 28-4 #18

Sample ID: Ics-51068	SampT	SampType: LCS			TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: LCSS	Batch	Batch ID: 51068				7303					
Prep Date: 3/12/2020	Analysis D	nalysis Date: 3/14/2020 SeqNo:				2319874 Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.6	70	130				
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.1	70	130				
Surr: Dibromofluoromethane	0.47		0.5000		93.4	70	130				
Surr: Toluene-d8	0.49		0.5000		97.7	70	130				
Sample ID: mb-51067	SampType: MBLK			Tes	TestCode: EPA Method 8260B: Volatiles S					•	

Client ID: PBS	Batc	h ID: 51	067	F	RunNo: 6	7303				
Prep Date: 3/12/2020	Analysis Date: 3/13/2020			S	SeqNo: 2319875 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.6	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.7	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Sample ID: mb-51068	SampT	SampType: MBLK TestCode: EPA Method 8						iles Short	List	
Client ID: PBS	Batch	Batch ID: 51068			RunNo: 67303					
Prep Date: 3/12/2020	Analysis D	ate: 3/	14/2020	S	SeqNo: 2	319876	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.5	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.6	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.6	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

Sample ID: Ics-51067	SampT	SampType: LCS TestCode: EPA Method 8						8260B: Volatiles Short List				
Client ID: LCSS	Batcl	n ID: 51 0	067	F	RunNo: 67303							
Prep Date: 3/12/2020	Analysis D	oate: 3/	13/2020	S	SeqNo: 2320114 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0	0.025	1.000	0	102	70	130					
Toluene	1.0	0.050	1.000	0	105	70	130					
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.6	70	130					
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.6	70	130					
Surr: Dibromofluoromethane	0.45		0.5000		90.4	70	130					
Surr: Toluene-d8	0.50		0.5000		101	70	130					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 11

Hall Environmental Analysis Laboratory, Inc.

SampType: MS

WO#: **2003411 24-Mar-20**

Client: HILCORP ENERGY

Project: SJ 28-4 #18

Sample ID: 2003411-001ams

Campic IB. 2000411 001ains	Campi	ypc. IIII	•	103	toode. L	Amounou	oo lob moa.	Casonine	i turige	
Client ID: CWS01	Batch	n ID: 51	067	F	RunNo: 6	7303				
Prep Date: 3/12/2020	Analysis D	oate: 3/	/13/2020	9	SeqNo: 2	319882	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.88	0	95.2	70	130			
Surr: BFB	480		497.5		96.5	70	130			
Sample ID: 2003411-001ams	d SampT	ype: M \$	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: CWS01	Batch	n ID: 51	067	F	RunNo: 6	7303				
Prep Date: 3/12/2020	Analysis Date: 3/13/2020 SeqNo: 2319883						Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.72	0	90.9	70	130	9.44	20	
Surr: BFB	460		474.4		97.4	70	130	0	0	
Sample ID: Ics-51067	SampT	ype: LC	cs	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch	n ID: 51	067	F	RunNo: 6	7303				
Prep Date: 3/12/2020	Analysis D	ate: 3/	/13/2020	5	SeqNo: 2	319912	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.8	70	130			
Surr: BFB	490		500.0		98.5	70	130			
Sample ID: Ics-51068	SampT	ype: LC	es —	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	-
Client ID: LCSS	Batch	n ID: 51	068	F	RunNo: 6	7303				
Prep Date: 3/12/2020	Analysis D	ate: 3/	/14/2020	5	SeqNo: 2	319913	Units: %Re	С		

TestCode: EPA Method 8015D Mod: Gasoline Range

Prep Date: 3/12/2020	Analysis Date: 3/14/2020	SeqNo: 2		s: %Rec		
Analyte	Result PQL SPK va	alue SPK Ref Val %REC	LowLimit High	hLimit %RPD	RPDLimit (Qual
Surr: BFB	490 50	00.0 97.8	70	130		
					_	

Sample ID: mb-51067	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range			
Client ID: PBS	Batch ID: 51067 RunNo: 67303											
Prep Date: 3/12/2020	Analysis D	Analysis Date: 3/13/2020 SeqNo: 2319914					Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	ND	5.0										
Surr: BFB	490		500.0		97.1	70	130					

Sample ID: mb-51068	SampType: MBLK	TestCode: EPA Method	TestCode: EPA Method 8015D Mod: Gasoline Range									
Client ID: PBS	Batch ID: 51068	RunNo: 67303										
Prep Date: 3/12/2020	Analysis Date: 3/14/2020	SeqNo: 2319915	Units: %Rec									
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual								
Surr: BFB	480 500.0	96.3 70	130									

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 11



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-In Check List Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name:	HILCORP E	ENERGY FAR	R Work	Order Num	ber: 200	3411			RcptNe	o: 1	
Received By:	Yazmine (Garduno	3/10/20	20 8:15:00	AM		Naznei	u lefnduri	6		
Completed By:	Juan Roja	s	3/10/20	20 12:33:41	I PM		Maynis	39			
Reviewed By:	ENM		3/11,	120							
Chain of Cust	ody										
1. Is Chain of Cu	stody suffici	ently complete	e?		Yes	V	No		Not Present		
2. How was the s	ample deliv	ered?			Cou	<u>rier</u>					
<u>Log In</u>											
3. Was an attemp	ot made to c	ool the sampl	es?		Yes	V	No		NA 🗌		
4. Were all sampl	les received	at a temperat	ure of >0° C t	to 6.0°C	Yes	V	No		NA 🗆		
5. Sample(s) in p	roper contai	ner(s)?			Yes	V	No				
6. Sufficient samp	ole volume fo	or indicated te	st(s)?		Yes	✓	No				
7. Are samples (e	xcept VOA	and ONG) pro	perly preserve	ed?	Yes	~	No				
8. Was preservati	ve added to	bottles?			Yes		No	V	NA 🗆		
9. Received at lea	ast 1 vial witl	n headspace <	<1/4" for AQ V	OA?	Yes		No		NA 🗸		
10. Were any sam	ple containe	rs received br	oken?		Yes		No	V	# -6		
									# of preserved bottles checked		
11. Does paperwor					Yes	✓	No		for pH:	12.00	loop metad)
(Note discrepar					V		No	П	Adjusted?)r>12 un	less noted)
12. Are matrices co			•		Yes	✓	No		,,		
13. Is it clear what 14. Were all holding					Yes Yes	V	No	П	Checked by:	DAD	3/11/20
(If no, notify cus	-				163		110		, _		91111 20
Special Handli	ng (if app	licable)									
15. Was client not	ified of all di	screpancies w	vith this order?	•	Yes		No		NA 🗸		
Person N	Notified:	THE RESIDENCE OF THE PROPERTY	fair-y suint vicino contra regra à regional	Date	Parameter Control	MICENS STATEMENTS	O CARCONAL PLANTA - CANADA CAN	oversioners and			
By Whor	m:	Zachowa o Luku ka ili u ncha sa	O MANUAL DESCRIPTION OF THE PARTY OF	Via:	eN	ail [Phone	Fax	☐ In Person		
Regardir	ng:	A PROPERTY OF THE PROPERTY OF		Osobobercanengicistedua	Charachel Sedanyla na biane.	S. Michigan School	SALIN WINNEY COLOR STORES		America Marian M		
Client Ins	structions:	DE UTIL ETITAL ACTUAL VIEW ACTUAL CONSISTANCE DISTANCE	PHILIP OF STREET, STRE	THE RESERVE OF THE PROPERTY OF		water gravers and desired after	d Har oli Akon serial a ensulativa consensati.	ARTICL SANCSCOLES	CONSULTATION CONTRACTOR SERVICES CONTRACTOR CONTRACTOR		
16. Additional rem	narks:										
17. Cooler Inform	nation										
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву			
1	1.5	Good		THE REST OF THE PERSON NAMED IN COLUMN							
2	2.9	Good									

ENVIRONMENTAL	ABORATORY						:02 PM								4 50 6								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Page 38
K	7	www.hallenvironmental.com	Albuquerque, NM 87109	505-345-4107	Request	(յս։	əsdA\tr					S) 0728 Total Co	5												
>	SIS	ronm	ndner	Fax 5								V) 0928													
Ш	75	allenvi	- Alb		Analysis	†O5	PO4, 5	1O ⁵	_				×	×	×	×	×	8	X						
HALL	ANALYSIS	ww.ha	NE NE	505-345-3975			SIMISO	170	-		, , , , , ,	PAHs by													
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	d 🗆 Rush	;	214 4-80			ager:	C CONTROL	Fric Carroll	人口	A550	O(including CF): [-C]	Preservative Type	C00)	Contract				17	-)					Via:	Via:
I urn-Around Time:	⊠ Standard	<u>=</u>	55	Project #:		Project Manager:	ENIC	Sampler: F	12(26)	# of Coolers:	Cooler Temp(including CF):	Container Type and #	1402		-				A		8			Received by:	Received by:
Chain-of-Custody Record		Damas		The second secon	6516-h	dumas @ hillorg. com	, □ Level 4 (Full Validation)	□ Az Compliance				Sample Name	CWSOI	CWSOZ	CWSO 3	CWSOY	CF501	CFSOR	c FS03					hed by:	Relinquished by:
-of-C	Hilcorp	>	.;		466-18	Idum		□ Az Cc	□ Other	THE STATE OF		Matrix	1:05						-/					Relinquished by:	Relinquished by:
hain	I	Lindsay	Addres	# T	U	email or Fax#:	CA/QC Package:	tation:	AC	□ EDD (Type)		Time	5001	1030	1035	ohol	5ho1	0301	1053					Time: 1330	Time: F
Client:		7	Jailing		202 Shone #:	mail o	QA/QC Packa	Accreditation:	□ NELAC] EDD		Date	3/9	_	and the second	of American	Water and P		7					Date:	Date:

Attachment 1 Weekly Inspection Form

SJ 28-4 Unit #18 Rio Arriba County, New Mexico Hilcorp Energy Company

Inspector Name:
Date:
Weather:
General Site Conditions:
Are there any breeches in the containment? Y N
If so, were they repaired?
Time spent mixing soil:
Amount of water applied (if any):
Amendments applied (type, quantity, location):
Evidence of pooling liquids? Y N GPS coordinates of pooling liquids:

Weekly Inspection Form

SJ 28-4 Unit #18 Rio Arriba County, New Mexico Hilcorp Energy Company

Inspector Name:

Date:

SAMPLE ID	PID (PPM)	SOIL MOISTURE (%)	Temp. (°F)	Sample Collected? (Y/N, date/time, analysis requested)
BP01				
BP02				
BP03				
BP04				
BP05				
BP06				
BP07				
BP08				
BP09				
BP10				
BP11				
BP12				
BP13				
BP14				
BP15				
BP16				
BP17				
BP18				
BP19				
BP20				
BP21				
BP22				
BP23				



ATTACHMENT 3: PHOTOGRAPHIC LOG



Photograph 1: South wall of excavation.



Photograph 2: North Wall of excavation.

SJ 28-4 Unit #18 Rio Arriba County, NM Photographs Taken: April 1, 2020





ATTACHMENT 3: PHOTOGRAPHIC LOG



Photograph 3: East Wall of excavation.



Photograph 4: West Wall of excavation.

SJ 28-4 Unit #18 Rio Arriba County, NM Photographs Taken: January 28, 2020

Page 2 of 2



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

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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

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

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

CONDITIONS

Action 10227

CONDITIONS

	CODID
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	10227
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Site was closed on 05/03/2021.	5/3/2022