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1625 N. French Dr., Hobbs, NM 88240District II811 S. First St., Artesia, NM 88210District III1000 Rio Brazos Road, Aztec, NM 87410District IV1220 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

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Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 151618
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email:tjlong@eprod.com	Incident # (assigned by OCD): NCS1933737748
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude 36.794997

Longitude -107.733385

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Pump Canyon Compressor Station	Site Type Natural Compressor Station
Date Release Discovered: 8/28/2019	Serial Number (if applicable): NM 080782

Unit Letter	Section	Township	Range	County
K	24	30N	9W	San Juan

Surface Owner: State Federal Tribal Private (Name: BLM

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 10-15 BBLS	Volume Recovered (bbls) None
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls):	Volume Recovered (bbls):
Natural Gas	Volume Released (Mcf):	Volume Recovered (Mcf):
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On August 28, 2019, Enterprise technicians observed a small area of staining around the valve of the produced water tank. Upon further investigation the technician discovered that the valve on the tank had been left partially open causing produced water and condensate to drip inside the unlined secondary containment structure. No standing liquids were observed inside the secondary containment structure. The release was not determined reportable until remediation was initiated on September 4, 2019, when the gravel in the unlined secondary containment was removed and a significant amount of impacted soil was observed. The final excavation dimensions measured approximately 40 feet long by 22 feet wide and two (2) feet deep. Approximately 104 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. Additional remediation by excavating was not possible due to the presence of permanent structures. On November 1, 2019, at the request of NMOCD, soil borings were installed utilizing a hand auger to demonstrate vertical delineation of soil impacts in the soil horizon and areas where permanent structures exist. Enterprise requests a deferment of additional remediation activities until facility decommissioning. A third party site characterization report and remediation plan is included with this "Final C-141."

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Incident ID	1 uge 2 0j 72
District RP	
Facility ID	
Application ID	

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>>50</u> (ft
Did this release impact groundwater or surface water?	bgs)
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)?	
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?	
Are the lateral extents of the release within 1000 feet of any other freeh water wall or enrine?	
Are the lateral entends of the chemical state in the state of the stat	🗌 Yes 🛛 No
water well field?	TYes X No
Are the lateral extents of the release within 300 feet of a wetland?	
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
And the factor executs of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	
Are the lateral extents of the release within a 100-year floodplain?	
Did the release impact areas not on an exploration, development, production, or storage site?	📙 Yes 🛛 No
	Yes No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- 🖾 Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Page 3 Oil Conservation Division	Incident ID	rage 3 of 9	
	Oll Conservation Division	District RP	
		Facility ID	
		Application ID	

I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release a public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a addition, OCD acceptance of a C-141 report does not relieve the operator and/or regulations.	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger ne OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws
Printed Name: Jon E Fields	Title: <u>Director, Environmental</u> Date: <u>10/30/2020</u>
email: jefields@eprod.com	Telephone: (713) 381-6684
OCD Only	
Received by:	Date:

r

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

Extents of contamination must be fully delineated.

Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Jon E. Fields	Title: Director, Field Environmental
Signature: C/w 4. Fund	Date: $10/30/2020$
email: jefields@eprod.com	Telephone:(713) 381-6684
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature: Nelson Velez	Date: 05/18/2022



SITE CHARACTERIZATION REPORT AND REMEDIATION PLAN

Property:

Pump Canyon Compressor Station (8/28/2019) SW ¼, S24 T30N R9W San Juan County, New Mexico

February 21, 2020 (Updated June 15, 2020) Ensolum Project No. 05A1226070

Prepared for:

Enterprise Field Services, LLC 614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Chad D'Aponti Field Environmental Scientist

Ranee Deechilly Environmental Scientist

Ummo

Kyle Summers, CPG Sr. Project Manager

Ensolum, LLC | Environmental & Hydrogeologic Consultants 606 South Rio Grande, Suite A | Aztec, NM 87410 | ensolum.com

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SITE CHARACTERIZATION REPORT AND REMEDIATION PLAN

Pump Canyon Compressor Station (8/28/2019) SW ¼, S24 T30N R9W San Juan County, New Mexico

Ensolum Project No. 05A1226070

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Pump Canyon Compressor Station (8/28/2019) (Site)
Location:	36.794997° North, 107.733385° West Southwest (SW) ¼ of Section 24, Township 30 North, Range 9 West San Juan County, New Mexico
Property:	United States Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On August 28, 2019, a release of produced water and condensate at the Pump Canyon Compressor Station resulted from a partially closed valve on a tank. On August 30, 2019, Enterprise initiated activities to remediate potential petroleum hydrocarbon impact resulting from the release.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 **Project Objective**

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Correspondence from the New Mexico EMNRD OCD, indicating approval to characterize the Site as Tier II (Groundwater greater than 50 feet below grade surface (bgs)), is included in **Appendix G**. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**.

• The OSE tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable

Enterprise Field Services, LLC Site Characterization Report and Remediation Plan Pump Canyon Compressor Station (8/28/2019) February 21, 2020 (Updated June 15, 2020)



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and includes an interactive map). Four (4) PODs (SJ-00140, SJ-02744, SD-01675, and SP-03480-1) were identified within a one mile radius of the Site on the OSE WRRS database. The recorded depth to water for SJ-02744 is 10 feet bgs, but at an elevation approximately 111 feet lower than the Site. The record for SJ-00140 indicates no depth to water. The records for SD-01675 and SP-03480-1 indicate that the PODs are associated with surface declarations and surface permits and indicate no depth to water. The average depth to water for additional PODs located over one (1) mile from the Site but in adjacent Sections is 13 feet bgs, but at elevations lower than the Site and typically adjacent to the San Juan River, with the exception of one POD (SJ-04066 POD1) which indicates a depth to water of 200 feet bgs and is located at a higher elevation than the Site.

- Cathodic protection wells were identified within one half mile of the Site. Depth to water records for the cathodic protection ground beds associated with the Riddle A Com #260, Riddle A Com #3, and Riddle A Com #9 well sites (located approximately 0.28 miles south of the Site) indicate depths to water ranging from 30 to 40 feet bgs. However, these sites are at a lower elevation (approximately 35 to 50 feet lower) than the release Site. Depth to water records for the cathodic protection ground beds associated with the Riddle A #3A (located approximately 0.28 miles north of the Site), indicate a depth to water of 130 feet bgs. The Riddle A #3A well site is approximately 18 feet lower in elevation than the release Site.
- The Site is not located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution or church.
- No springs, or private domestic fresh water wells used by less than five (5) households for domestic or stock watering purposes were identified within 500 feet of the Site.
- No fresh water wells or springs were identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- The Site is not located within an unstable area.
- The Site is not located within a 100-year floodplain.





During a previous remediation at the Site in 2019, the New Mexico EMNRD OCD approved the following cleanup goals for soils remaining in place at the Site:

C	losure Criteria for Soils Impacted by a Releas	e
Constituent	Method	Limit
Chloride	EPA 300.0 or SM4500 CI B	10,000 mg/kg
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015	2,500 mg/kg
TPH (GRO+DRO)	EPA SW-846 Method 8015	1,000 mg/kg
BTEX	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

3.0 SOIL REMEDIATION ACTIVITIES

On August 30, 2019, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities Sierra Oilfield Services, Inc. provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 40 feet long and 22 feet wide at the maximum extents. The maximum depth of the excavation measured approximately two (2) feet bgs. It is believed that deeper excavation in the area at this time would risk undermining the integrity of the storage tank foundations.

The lithology encountered during the completion of remediation activities consisted primarily of gravel and silty sandy clay.

A total of approximately 104 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance forms are provided in **Appendix C**. The excavation was backfilled with imported fill, and the secondary containment was repaired.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the storage tank (**Appendix A**). Photographic documentation of the field activities is included in **Appendix D**.

4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG[®] hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of five (5) composite soil samples (S-1 through S-5) from the excavation for laboratory analysis. The composite samples were comprised of five (5) aliquots each and represent an estimated 200 square foot sample area per the guidelines outlined in NMAC 19.15.29.12 Section D. Additionally, two (2) soil samples (HA-1@4' and HA-2@4'), were collected from beneath the floor of the excavation utilizing a hand auger. The New Mexico EMNRD OCD provided verbal approval to proceed with the sampling events, although a New Mexico EMNRD OCD representative was not on Site during the sampling activities. Enterprise Field Services, LLC Site Characterization Report and Remediation Plan Pump Canyon Compressor Station (8/28/2019) February 21, 2020 (Updated June 15, 2020)



First Sampling Event

On October 17, 2019, composite soil sample aliquots for soil samples S-1 (0'-1.5'), S-2 (0'-1.5'), S-3 (0'-1.5'), S-4 (0'-1.5'), were collected from the base and sidewalls of the shallow excavation. Subsequent analytical results from composite soil sample S-1 indicated TPH exceedances above the applicable New Mexico EMNRD OCD closure criteria. In response to the exceedances the excavation was deepened in the area north of the tank. Composite soil samples S-1 and S-2 were removed and transported to the landfarm for disposal/remediation.

Second Sampling Event

On October 30, 2019, subsequent to the deepening of the excavation a second sampling event was performed. Composite soil sample S-5 (0'-2') was collected from the base and sidewalls of the remediation excavation to replace composite soil sample S-1.

Third Sampling Event

On November 1, 2019, at the request of the New Mexico OCD, soil samples HA-1@4' and HA-2@4' were collected from hand auger soil borings beneath the floor of the remediation excavation to demonstrate vertical delineation near the base of the soil horizon.

The soil samples were collected and placed in laboratory prepared glassware, labeled and sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021, total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015, and chlorides using EPA Method #300.0.

The laboratory analytical results are summarized in **Table 1** in **Appendix E**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix F**.

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-3 through S-5, HA-1@4' and HA-2@4') to the applicable New Mexico EMNRD OCD closure criteria. Soils associated with composite soil samples S-1 and S-2 were removed from the Site and transported to the landfarm and are not included in the following discussion.

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO concentrations ranging from below the laboratory





PQLs/RLs to 860 mg/kg (S-3), which are less than the applicable New Mexico EMNRD OCD closure criteria of 1,000 mg/kg.

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO/MRO concentrations ranging from below the laboratory PQLs/RLs to 1,400 mg/kg (S-3), which are less than the applicable New Mexico EMNRD OCD closure criteria of 2,500 mg/kg.
- The laboratory analytical results for composite soil sample S-5 indicates a combined chloride concentration of 81 mg/kg, which is less than the applicable New Mexico EMNRD OCD closure criteria of 10,000 mg/kg. The laboratory analytical results for the remaining composite soil samples collected from soils remaining at the Site indicate chloride is not present at concentrations greater than laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10,000 mg/kg for chlorides.
- The laboratory analytical results for composite soil samples S-3 and S-4 indicate combined TPH GRO/DRO/MRO concentrations of 1,400 mg/kg and 680 mg/kg, respectively. While these samples meet the Tier II closure criteria, the samples do not meet the soil requirements of NMAC 19.15.29.13(D)(1) which indicate that a minimum of the upper four (4) feet must contain "uncontaminated" soil and that the soils meet Tier I closure criteria listed in Table 1 of NMAC 19.15.29.12.

The laboratory analytical results are summarized in **Table 1** (Appendix E).

7.0 REMEDIATION, RECLAMATION, AND REVEGETATION

To return the facility to operational status and secure the storage tank foundation before additional settling occurred, the excavation was backfilled with imported fill, and the secondary containment was repaired. With the vertical delineation of petroleum hydrocarbon impact completed, Enterprise requests the deferment of final remediation, reclamation, and revegetation at the Site until after the facility is decommissioned, to avoid damaging existing structures/appurtenances. At that time, Enterprise proposes to resume excavation and removal activities to address the soil requirements of NMAC 19.15.29.13(D)(1) as enforced by the New Mexico EMNRD OCD which requires that the upper four (4) feet of soil be remediated to Tier I closure criteria: 10 mg/kg for benzene, 50 mg/kg for total BTEX, 100 mg/kg for combined TPH GRO/DRO/GRO, and 600 mg/kg for chloride.

8.0 FINDINGS AND RECOMMENDATION

On October 10, 2019, Enterprise initiated activities to remediate potential petroleum hydrocarbon impact resulting from the release.

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- A total of seven (7) composite soil samples were collected from the floor/walls and beneath the floor of the final excavation for laboratory analyses. Based on laboratory analytical results, soils remaining in place do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.



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 A total of approximately 104 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with imported fill, and the secondary containment was replaced.

Enterprise requests the deferment of final reclamation, including remediation of the upper four (4) feet of soil to comply with the requirements of NMAC 19.15.29.13(D)(1), until after the facility is decommissioned, to avoid damaging existing structures/appurtenances at the facility.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties).

9.2 Additional Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

9.3 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures

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APPENDIX B

Siting Figures and Documentation











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New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(quarte	ers a ers a	re 1 re s	I=N\ smal	N 2=N lest to	IE 3=SW largest)	7 4=SE) (NAD8	3 UTM in meters)		(In feet)	
POD Number	POD Sub- Code basin C	ounty (QQ 64 16	Q 5 4	Sec	Tws	Rng	x	Y	Depth Well	Depth Water (Water Column
SJ 00140	SJM2	SJ		1	25	30N	09W	255769	4074625* 🌍	10		
<u>SJ 02744</u>	SJM2	SJ -	44	2	25	30N	09W	256992	4074273* 🌍	21	10	11
SJ 04066 POD1	SJM2	SJ	2	4	25	30N	09W	257174	4073384 🌍	260	200	60
									Average Depth to	Water:	105 fe	et
									Minimum	Depth:	10 fe	et
									Maximum	Depth:	200 fe	et
Record Count: 3												

PLSS Search:

Section(s): 24, 13, 14, 23, 26.25

Township: 30N

Range: 09W

*UTM location was derived from PLSS - see Help

Released to Imaging: 5/18/2022 3:04:36 PM

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a	(R=POD has been replace O=orphaned C=the file is	ed, , , (qua	rters	s ar	re 1	1=NV	V 2=N	IE 3=SW	/ 4=SE)				
water right file.)	closed)	(qua	rter	s ar	re s	small	est to	largest)	(NAD8	3 UTM in meters)		(In feet))
	POD Sub-	0	Q	Q	Q	0	T	D	v	Y	Depth	Depth	Water
SL01516	S IM2	SI	04	10 2	4 2	5ec	30N		X	4076302*	15	10	Solumn
<u>SJ 03467</u>	SJM2	SJ	2	2	1	30	30N	08W	257628	4074851* 🌍	40	16	24
SJ 03699	0	SJ	2	4	1	30	30N	08W	257623	4074452* 🌍		21	
SJ 03699 POD1	SJM2	SJ	1	4	1	30	30N	08W	257423	4074452* 🌍	21	10	11
SJ 03904 POD1	SJM2	SJ	1	4	1	30	30N	08W	257419	4074367 🌍	24	12	12
SJ 04032 POD1	SJM2	SJ	3	4	1	30	30N	08W	257459	4074325 🌍	22	13	9
SJ 04084 POD1	SJM2	SJ	3	4	1	30	30N	W80	257393	4074282 🌍	23	13	10
										Average Depth to Minimum Maximum	Water: Depth: Depth:	13 fe 10 fe 21 fe	eet eet eet
					_								

Record Count: 7

PLSS Search:

Section(s): 18, 19, 30

Township: 30N

30N Rang

Range: 08W

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Page 27 of 92

Received by O	CD: 11/5/2020 10:28:56 AM 7 - 09 J. 10	-U	1241	Page 28 of 92
20-04	5- 20491	-1		
30-04	5-27135 DATA SHEET FO	OR DEEP GROUND BED CATH Northwest <u>ern</u> new me	ODIC PROTECTION	WELLS.
	Operator <u>MERIDIAN OIL CO</u>). Location	: Unit_N_Sec.34	_Twp_30_Rng_9_
	Name of Well/Wells or H	Pipeline Serviced RIDDLE	A COM # 260, # 3, 1	<u># 9</u>
, ,	Elevation <u>5716</u> Completic	on Date_8/20/90_Total D	epth_65Land	<u>Cps_54w</u> Type N/A
	Casing Strings, Sizes,	Types & Depths 47ft.	8" PVC Casing	
	If Casing Strings are c	cemented, show amounts	& types used	NZA
	If Cement or Bentonite	Plugs have been placed	, show depths a	amounts used
	Depths & thickness of w	water zones with descri	ption of water:	Fresh, Clea:
	Salty, Sulphur, Etc. 3	0 ft. to 40 ft.		<u> </u>
	Depths gas encountered:	N/A	······	
	Ground bed depth with t	ype & amount of coke b	reeze used:	
	65 ft. with 500 lbs Ashb	oury Petroleum Coke		
	Depths anodes placed: 6	Oft., 53 ft.	<u> </u>	VEM
	Depths vent pipes place	d: 65 ft.	MN	
	Vent pipe perforations:	20'	OIL CON.	<u> </u>
	Remarks:qb_#3 Well #2)	<u>)</u> DIST. 3	9
			₹ <i></i>	

If any of the above data is unavailable, please indicate so. Copies of al logs, including Drillers Log, Water Analyses & Well Bore Schematics shoul be submitted when available. Unplugged abandoned wells are to be include

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

• • •	Operator MERIDIAN OIL CO	th Sec 34 That	20 R
•	Name of Well/Wells or Bipeline Serviced RIDDLE A C	OM # 260. #3. #9	
		ср	s 54w
•	Elevation 5716 Completion Date 8/20/90 Total Depth	65ftLand Ty	e N
	Casing Strings, Sizes, Types & Depths 47 ft. 8" PVC	Casing	
	If Casing Strings are cemented, show amounts & typ	es usedN/A	
	TE Coment on Destandte Diver have been along a	w denthe f am	unte
. •	N/A	a depens a dur	
:.*	N/A Depths & thickness of water zones with description Salty, Sulphur, Etc. <u>30 to 40 ft</u> .	of water: Fre	38h, (
:.*	If Cement of Bentonite Plugs have been placed, shown in the second state of	a of water: Fre	38h, (
:.*	If Cement of Bentonite Plugs have been placed, shown in the second state of	of water: Fre	ssh, (
:,*	If Cement of Bentonite Plugs have been placed, showned, N/A Depths & thickness of water zones with description Salty, Sulphur, Etc. 30 to 40 ft. Depths gas encountered: N/A Ground bed depth with type & amount of coke breeze 65 ft. with 500 lbs Ashbury Petroleum Coke	a of water: Fre	38h,. (
:.*	If Cement of Bentonite Plugs have been placed, and N/A Depths & thickness of water zones with description Salty, Sulphur, Etc. 30 to 40 ft. Depths gas encountered: N/A Ground bed depth with type & amount of coke breeze 65 ft. with 500 lbs Ashbury Petroleum Coke Depths anodes placed: 53 ft. 45 ft.	of water: Fre	38h, (
:, *	If cement or Bentonite Plugs have been placed, and N/A Depths & thickness of water zones with description Salty, Sulphur, Etc. 30 to 40 ft. Depths gas encountered: N/A Ground bed depth with type & amount of coke breeze 65 ft. with 500 lbs Ashbury Petroleum Coke Depths anodes placed: 53 ft. 45 ft. Depths vent pipes placed: 65 ft.	of water: Fre	ssh, (
:.*	If Cement of Bentonite Plugs have been placed, and N/A Depths & thickness of water zones with description Salty, Sulphur, Etc	of water: Pro	38h, (

logs, including Drillers Log, Water Analyses & Well Bore Schematics shou be submitted when available. Unplugged abandoned wells are to be include

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Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

Received by OC	D: 11/5/2020/10:28:56 AM U/2U3
30-045- 30-045-	-20471 -21135 DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO
, a .	Operator MERIDIAN OIL CO. Location: Unit N Sec. 34 Twp 30 Rng 9
:	Name of Well/Wells or Pipeline Serviced RIDDLE A COM # 260, #3, #9
•	CDS 54w Blevation <u>5716</u> Completion Date <u>8/20/90</u> Total Depth <u>65 ft</u> . Land Type <u>N/A</u> Casing Strings, Sizes, Types & Depths <u>47 ft</u> . 8" PVC Casing
	If Casing Strings are cemented, show amounts & types used <u>N/A</u>
	If Cement or Bentonite Plugs have been placed, show depths & amounts use
•:	Depths & thickness of water sones with description of water: Fresh, Clea
	Salty, Sulphur, Etc. 30 to 40 ft.
	Depths gas encountered:N/A
	Ground bed depth with type & amount of coke breeze used:
	65 ft. with 500 lbs Ashbury Petroleum Coke
•	Depths anodes placed: 58ft, 50 ft.
•*	Depths vent pipes placed: 65 ft. DECENTER
	Vent pipe perforations: 20' MAY3 7 1991
	Remarks: <u>Sab-#3Well-#4</u> OIL CON. DIV
	DIST. ?

If any of the above data is unavailable, please indicate so. Copies of a logs, including Drillers Log, Water Analyses & Well Bore Schematics shou be submitted when available. Unplugged abandoned wells are to be include

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

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	Operator MERIDIAN OIL CO.	Location: U	nit <u>n Sec.34 Twp:30'</u>
	Name of Well/Wells or Pipeline	Serviced RIDDLE A	COM # 260, # 3, # 9
			cps 54w
	.Blevation <u>5716</u> Completion Date	8/20/90 Total Dept	h_65Land. Type
•.	Casing Strings, Sizes, Types 6	Depths B7 ft. 8" P	IC Casing
	Tf Caping Stuings two compations		
	II Casing Strings are cemented	l, Buow. amounts a t	
	If Cement or Bentonite Plugs h	ave been placed. a	how depths & amount
	N/A		-
•	Depths & thickness of water so	nes with descripti	on of water: Fresh.
•	N/A Depths & thickness of water so Salty, Sulphur, Etc. 30 to 40 s	ones with descripti	on of water: Presh,
•	N/A Depths & thickness of water so Salty, Sulphur, Etc. <u>30 to 40 s</u>	ones with descripti	on of water: Presh,
•	N/A Depths & thickness of water so Salty, Sulphur, Etc. 30 to 40 s Depths gas encountered: N/A	ones with descripti	on of water: Presh,
•	N/A Depths & thickness of water so Salty, Sulphur, Etc. <u>30 to 40 s</u> Depths gas encountered: <u>N/A</u> Ground bed depth with type & a	mes with descripti	on of water: Fresh,
•	N/A Depths & thickness of water so Salty, Sulphur, Etc. <u>30 to 40 s</u> Depths gas encountered: <u>N/A</u> Ground bed depth with type & a 65 ft. 500 lbs Ashbury Petroleum (nes with descripti ft. mount of coke bree Coke	on of water: Presh, se used: D) E G E I V E
•	N/A Depths & thickness of water so Salty, Sulphur, Etc. <u>30 to 40 s</u> Depths gas encountered: <u>N/A</u> Ground bed depth with type & a 65 ft: 500 lbs Ashbury Petroleum (Depths anodes placed: <u>55 ft. & 4</u>	ones with descripti ft. mount of coke bree Coke	on of water: Presh, ze used: D E E E I W E MAY3 1 1991
•	N/A Depths & thickness of water so Salty, Sulphur, Etc. <u>30 to 40 s</u> Depths gas encountered: <u>N/A</u> Ground bed depth with type & a <u>65 ft: 500 lbs Ashbury Petroleum (</u> Depths anodes placed: <u>55 ft. & (</u> Depths vent pipes placed: <u>65</u>	nes with descripti ft. mount of coke bree Coke 48 ft. ft.	on of water: Presh, se used: D E G E I W E MAY 3 1 1991, OIL CON. DIV

If any of the above data is unavailable, please indicate so. Copies of a logs, including Drillers Log, Water Analyses & Well Bore Schematics shou be submitted when available. Unplugged abandoned wells are to be include

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

Received by OCD: 11/5/2020 10:28:56 AM 30-045-09276 Page 32	of 92
Riddle A#9 30-045-20491	
Riddle A COM#260 30-045-27135 NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)	
Operator <u>MERIDIAN OIL</u> Location: Unit ^{SW} Sec. ²⁴ Twp ³⁰ Rng	9
Name of Well/Wells or Pipeline Serviced RIDDLE A #3, RIDDLE A #9,	
RIDDLE A COM #260 cps 54w	
Elevation <u>5716'</u> Completion Date <u>11/8/61</u> Total Depth <u>100'</u> Land Type* N/A	
Casing, Sizes, Types & DepthsN/A	
If Casing is cemented, show amounts & types usedN/A	
If Cement or Bentonite Plugs have been placed, show depths & amounts us	ed
Depths & thickness of water zones with description of water when possib	le:
Fresh, Clear, Salty, Sulphur, Etc. N/A HOLE MAKING WATER AND GAS	···
Depths gas encountered: N/A HOLE MAKING WATER AND GAS. D SGFIWE	
Type & amount of coke breeze used: 1020 lbs.	Ш
Depths anodes placed: 80', 72', 66', 60', 54'	
Depths vent pipes placed: N/A DIST. 3	
Vent pipe perforations: N/A	
Remarks: <u>@gb #177</u>	0
WATER FLOW.	<u> </u>
If any of the above data is unavailable, please indicate so. Copies of logs, including Drillers Log, Water Analyses & Well Bore Schematics sho be submitted when available. Unplugged abandoned wells are to be inclu	all uld ded.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

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SAN JUAN DIVISION WELL CASING CATHODIC PROTECTION DAILY CONSTRUCTION PROGRESS REPORT

DATE 11-3-61
WELL NAME - Riddle = 3-2 WORK ORDER NO. 184-52155-50-20
NUMBER AND DEPTH OF HOLES: #1_10;#2,#3,#4,#5
DEPTH OF EACH ANODE: #1_80', #2_72', #3 <u>66'</u> , #4 <u>60'</u> , #5 <u>54'</u> , #6, #7
#8 #9 #10
ANODE RESISTANCES: #1_1.5, #2_1.5, #3_2.0, #4_2.1, #5 <u>1.5</u> , #6, #7
#8, #9, #10
TOTAL CIRCUIT RESISTANCE:OHMS.
DRILLING LOG: (ATTACH HERETO)
AMOUNT OF COKE BREEZE PLACED IN BACH HOLE: #1/020, #2, #3
#4, #5。
ANY DIFFICULTIES ENCOUNTERED IN DRILLING: ROCKS- LOST CIRCULATION- CASING INSTALLED-
DATE ALL CONSTRUCTION COMPLETED
REMARKS: Hole Maling Water and Gas Hod to Have Orin Stay in Hole UNTIL we could load Anodes
TOP OF COKE AT 38' Tried TO Plag with Dirt
UNBBLE TO Dr. Iling DEPT. TO HENdle plug.
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Cavety - also wasted Cake due to Water plano
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If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

Page 36 of 92 Received by OCD: 11/5/2020 10:28:56 AM El Paso Natural Gas Company WELL CASING ---Form 7-238 (Rev. 1-69) CATHODIC PROTECTION CONSTRUCTION REPORT System DAILY LOG 5 úne. Completion Date Drilling Log (Attach Hereto). Well Name Location CPS No SW14-30N-9W Type & Size Bit L Work Orde Total Lbs. Coke Used Anode Hole Depth Potal Drilling Rig Time Lost Circulation Mat'l Used No. 3800 EST 60 # 3 150 # 4 140 # 5 130 # 6 90 # 7 80 # 8 70 # 9 60 # 10 50 # 3 5.5 # 4 4. 4 # 5 4.3 # 6 3. 4 # 7 4.8 # 8 5.5 # 9 # 2 Anode Depth # 11 # 12 # 15 # 16 # 13 # 14 # 17 # 18 # 19 Anode Output (Amps) # 15 # 16-# 19 # 11 # 12 Cable Used Total Circuit Resistance No. 8 C.P. No. 2.C 0.62 8.* 0 Ohms Volts Amps Drilled Hole "I with Bir, Cove in. Remarks: Drilled Hole #2 with Air, Cove in Drilled Hole #3 with Mud Driller Said Water @ 30. Vent Hose Perforated 150 UMPEN COKE Breeze To 20 COMPLETE By Slur All Construction Completed 8 duard R. Paulin #3,409.00 **GROUND BED LAYOUT SKETCH** 15.20 CAble -610.00DepTh Credit RiddleA Riddle A # 3 2,814.20 112.5TTAX # 2,926.77 N Cd Bed # Di Al Be Original & 1 Copy All Reports

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STORM WATER WELL DRILLING INC.

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Drill Owner,

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Anode Depth # 11

Anode Output (Amps)

Total Circuit Resistance

CPS #

Location:

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WELL CASING CATHUDIC PROTECTION CONSTRUCTION REPORT DAILY LOG

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Drilling Log (Attach H	ereto) [Cor	nplețion Da	ate_8-20	-90
CPS #	Well Name	Line or Plant:		Work Order #		Static:		Ins. Union Check	•
-629-	Ridd	le A Co	m#260	3	Þ.				
54-W	Ridd1.	e A Co	m # 3					Lef Good	L. Bad
- /	Kidd!	e A cor	n # 9						
Location: N34 - 30 - 9	A	node Size: 2 ⁴ X 6 д'	Anode Type ANO	Tec	Size	e Bit: 6 3/4	· (
Depth Drilled	Depth Lo	≫gged <i>±</i> ∠	Drilling Rig Time	Total Lbs , , , , , , , , , , , , ,	. Goke Used	Lost Circulation M	fat'l Used 4	No. Sacks Mud Used	
xnode Depth # 1 6 0 # 2	53)	#3 60	# 4-5 3 45	53.	645	58	** 50)	55	# 10 48
Anode Output (Amps) # 5. 9 # 2	7.0)	#3 5.\$	# 4 6.8 17 5	6.0 #	6 8.2	# 5,2	± 8 6.8 (25 5.3	# 10 6.4_
Anode Depth								T	

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No. 8 C.P. Cable Used

Volts		Am	ps	Ohr	ns			<u>.</u>				
Remarks:	DRI III	ed 2	5 hole	z gng	loaded	2	ANODe	POR	hole.	INSTALL	od 1"	PVC Ver
Pipe	iN	each	hole	. Avek	ago ho	le def	ith A	PPRO	XI MOTO	ly 65'.	AP	PROXIMO
500	165.	CoKe	Per	hole.	Water	STANd	ING 2	T A	PPROXI	nately	40*	IN hole.
Perf	opar	2 2	0' 0M	each	Vert PL	Pe.	, 					

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VA
201
460'
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All Construction Completed

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No. 2 C.P. Cable Used

illis Z (Stanature

GROUND BED LAYOUT SKETCH

HOUSE Monets R GJ Bod $\mathcal{P}_{\mathcal{O}}$ 20 N ¥ ₽260 XI 43 40 $\overline{\mathcal{A}}$ Rectifier

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COMPANY / CER	DIAN UI	DAIL	Y DRILLING REPOR	т <u> </u>	<u><019 90</u>
WELL NAME:		WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
Riddle A-	Com	260	N 24	30	9
	WATER AT:	FEET:	HOLE MADE:		
	· · · · · · · · · · · · · · · · · · ·	DESCRIPTION OF	FORMATION		
FROM	то		FORMATION IS	•	COLOR
Well #1	+				
0	50'	8" PVC CAS	ING (SAND	-GRAVEI)	
50'	20'	shale		·	
70'	100	SAND - GAS	s - Attempte	ED TO CEME	ent-
HAD TO DR	IL CEMENT	BACK TO BC)' - B.J. Hug	HES BACK-	TO SURFACE
WELL #2				·	
0	47'	8" PVC C	ASING (SA	ND - GOAVE	1
<u>49</u> '	70'	shale		****	
WEIL #3					
0	47'	8" PVC CAS	ING (SAND-	GRAVEI)	
47'	65'	shale			
Well #4					
0	47'	8" PYC C	ASING (SAN	10-GRAVED	
47'	65'	shale			
Well #5				······································	_
0	רש'	8" PVC C	ASING (SAN	ND - GAAVE!)
<u> </u>	65'	shale.		<u> </u>	•
		E To DASING	sali# due	to equie	/
Well #7) 0	45'	S" DVC AA	SINC CEAN	D-GANE!	
<u>NEII - 1 0</u>	75	shale	5/14 (541	<u>0 - 9117021</u>	▶
7 5		<u>since</u>	1.	1. 1.	Deilleor
REMARKS:	IEII - I (ABA	MODNED - CEM	ENTED / REDRI	LED/CEMENT	ED) MUD
WEII # 5 (Lo	ST - DRILLED	UP I ANODE	EWIRE, DUE	to GAAVEL & S	SAND RUNNING
BIREPIACED/RE	completed)	WELL #6 (Los	T DUE TO	GRAVEL)	
		Driller É	Suin 2	. Burge	Tool Dress
ET TWO ANO	DES IN 5	holes		0	
14 1 1 · · · · · · · · · · · · · · · · ·					
TAL DAYS TO	complete	7 days			

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BURGE CORROSION SYSTEMS, INC.

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P.O. BOX 1359 - PHONE 334-6141 AZTEC, NEW MEXICO 87410

LL NAME:	(+he)	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
idle A - C	om No. 260	2260	24	30	9
, ,	WATER AT:	FEET:	HOLE MADE:	an a	
35'		`	/0 2 ′ #	/	
59014		DESCRIPTION OF	FORMATION		O
			FURMATION IS	1	COLON
0	18	Sand,	Clay St	treamer	e
_18	22'	grave	2/ Sand	Ł	
22'	30'	gard	· , clay a	streamer	÷
30'	<i>to</i>	Sand w	ater 1	out aircul	ation
40'	50'	Shale		<u>in</u>	
50'	97'	Shale /	Bentonite	mix	
97'	102'	water	1 das	1 artesia	~
7.			. /		
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REMARKS:	all A to	all route as	h P D	1 / Di	- any grule
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ed with	1 674 Mull	Set until	water a	por gue	west unco
		Driller.	suar 2. 4	ourge	Tool Dresse

- -		CPS	<u>#: 5</u>	ųω	1	WELL I	NAME:	P.d.d.	e A	- Com	$\int_{T}^{T} 24$,0 IO	AT1OR	:N24	-30-91	DATE: 8	7. 20-9	ے ا) •
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-				<u>/ (</u>								- 0/14	<u></u>	101/0			<u> </u>	J	:
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CONSTRUCTION LOGGING READINGS

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25 205 305 565 $$ 30 210 320 570 $$ 35 215 325 575 $$ $h0$ 220 $h00$ 570 $$ $h0$ 220 $h00$ 570 $$	20	1		192			212			222 560						
20 20 390 570	25		1	200			385			565						-
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45 1.6 225 405 585 $$	140	1		222			<u>ر جر</u> ۱۵۵۱			212 580						- -
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DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS NORTHWESTERN NEW MEXICO

Operator Meridian Oil INC. Location: Unit F Sec. 24 TWD 30	Rng O 2
Name of Well/Walls.or Pipeline Serviced	· · · · · · · · · · · · · · · · · · ·
Riddle A#3A	·
Elevation 5732 Completion Date 7/1/94 Total Depth 328 Land Type A	
Casing Strings, Sizes, Types & Depths 6/29 Set 99 OF8" PVC CA	Ising.
NO GAS OF WATER, BUT 12(0-12) of Boulders Were ENCOUNTEREd During	CASING.
If Casing Strings are cemented, show amounts & types used <u>Cemen</u>	Ted
WITH 20 SACKS.	
If Cement or Bentonite Plugs have been placed, show depths & amount	ts used
Used 5 SACKS OF CEMENT, TO PLACE A 15 (100-115) Plug, TO STOP AFTESIAN L	ATer
Depths & thickness of water zones with description of water: Fresh	, Clear,
Salty, Sulphur, Etc. Hit Some Fresk Water AT 130, And M.	nore
Fresh WATER AT 265. A WATER SAMPLE WAS TAKEN.	
Depths gas encountered: NONE	
Ground bed depth with type 4 amount of coke breeze used: 328 7	epTH.
Used 75 SACKS OF ASbury 218R (3750#)	
Depths anodes placed: 294,286,278,270,234,226,218,210,202,194,186,178,156,14	18, +140
Depths vent pipes placed: Sufface TO 328. DEPART	nak hour
Vent pipe perforations: BoTTom 210. DEUEIVE	
Remarks:	
OIL COM. D	
6 JOINT 8	

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.



APPENDIX C

Executed C-138 Solid Waste Acceptance Forms

. Released to Imaging: 5/18/2022 3:04:36 PM

State of New Mexico Energy Minerals and Natural Resources

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

9 705 7-103 Form C-138 Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401	Invoice Information: PM: Matt Garrison Non AFE: N43731 Pay Key: EM 20767
2. Originating Site: Pump Canyon CS	
3. Location of Material (Street Address, City, State or ULSTR): UL K Section 24 T30N R9W; 36.794997, -107.733385	Sep. 2019
4. Source and Description of Waste: Hydrocarbon/Water impacted soils associat Estimated Volume _50 _yd ³ / bels Known Volume (to be entered by the operator	at the end of the haul) $3 = \frac{1}{2} $
5. GENERATOR CERTIFICATION STATEMENT OF	WASTE STATUS
I, <u>Thomas Long</u> , representative or authorized agent for <u>Enterprise Field</u> PRINT & SIGN NAME COMPANY	<u>Services, LLC</u> do hereby NAME
regulatory determination, the above described waste is: (Check the appropriate classification and second se	US Environmental Protection Agency's July 1988 ation)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and prevent waste.	oduction operations and are not mixed with non-
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exce characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed h subpart D, as amended. The following documentation is attached to demonstrate th the appropriate items)	eed the minimum standards for waste hazardous by azardous waste as defined in 40 CFR, part 261, e above-described waste is non-hazardous. (Check
□ MSDS Information ⊠ RCRA Hazardous Waste Analysis □ Process Knowledge	ge D Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STA	TEMENT FOR LANDFARMS
I, Thomas Long 9-20-19 representative for <u>Enterprise Field Services, LLC</u> at Generator Signature testing/sign the Generator Waste Testing Certification.	uthorize <u>Envirotech, Inc</u> , to complete the required
1, Greg Castre, representative for Envirotech.	Inc. do hereby certify that
representative samples of the oil field waste have been subjected to the paint filter test at have been found to conform to the specific requirements applicable to landfarms pursua of the representative samples are attached to demonstrate the above-described waste con 19.15.36 NMAC.	nd tested for chloride content and that the samples nt to Section 15 of 19.15.36 NMAC. The results form to the requirements of Section 15 of
s. Transporter: TBD Sierra O; 1.field	
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: N Address of Facility: Hilltop, NM	IM 01-0011
Method of Treatment and/or Disposal:	Landfill 🔲 Other
Waste Acceptance Status:	FD (Must Be Maintained As Domenant Berght
DEINT NAME. CHARA (No. Laborad TITLE Frank	Mandar Primanent Record)
SIGNATURE:	505-632-0615
Surface Waste Management Facility Authorized Agent	

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 97057-1032 Form C-138 Revised August 1, 2011

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

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

 REQUEST FOR APPROVAL TO ACCEPT S	OLID WASTE
1. Generator Name and Address: In Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401	voice Information: PM: Matt Garrison Non AFE: N43731 Pay Key: EM 20767
2. Originating Site: Pump Canyon CS	
3. Location of Material (Street Address, City, State or ULSTR): UL K Section 24 T30N R9W; 36.794997, -107.733385	04.2019
4. Source and Description of Waste: Hydrocarbon/Water impacted soils associated wi Estimated Volume 50 yd ³ /bols Known Volume (to be entered by the operator at the	ith a release from a produced water tank. end of the haul) <u>36</u> yd bbls
5. GENERATOR CERTIFICATION STATEMENT OF WAS	STE STATUS
I, <u>Thomas Long</u> , representative or authorized agent for <u>Enterprise Field Servic</u> PRINT & SIGN NAME certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Enterprise field Service (RCRA) and the US Enterprise field Service (RCRA) and the US Enterprise (Company NAME) regulatory determination, the above described waste is: (Check the appropriate classification)	ces, LLC do hereby nvironmental Protection Agency's July 1988
RCRA Exempt: Oil field wastes generated from oil and gas exploration and product exempt waste. Operator Use Only: Waste Acceptance Frequency Monthly	ion operations and are not mixed with non- Weekly D Per Load
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed th characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous subpart D, as amended. The following documentation is attached to demonstrate the about the appropriate items)	e minimum standards for waste hazardous by ous waste as defined in 40 CFR, part 261, ve-described waste is non-hazardous. (Check
□ MSDS Information	☐ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEM	IENT FOR LANDFARMS
I, Thomas Long I, Thomas Long Generator Signature testing/sign the Generator Waste Testing Certification.	rize Envirotech, Inc. to complete the required
I, <u>Grag</u> <u>Crubban</u> , representative for <u>Envirotech. Inc.</u> representative samples of the oil field waste have been subjected to the paint filter test and tes have been found to conform to the specific requirements applicable to landfarms pursuant to S of the representative samples are attached to demonstrate the above-described waste conform 19.15.36 NMAC.	do hereby certify that ted for chloride content and that the samples Section 15 of 19.15.36 NMAC. The results to the requirements of Section 15 of
s. Transporter: TBD 5:erra	
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01 Address of Facility: Hilltop, NM	
Method of Treatment and/or Disposal:	andfill 🗌 Other
Waste Acceptance Status:	Must Be Maintained As Permanent Record)
PRINT NAME: Grag Crabbre TITLE: ENURO M.	mayor DATE: (0/22/19
SIGNATURE:	5-632-0615



APPENDIX D

Photographic Documentation

Ensolum Project No. 05A1226070

SITE PHOTOGRAPHS

Enterprise Field Services, LLC Site Characterization Report / Remediation Plan Pump Canyon Compressor Station





SITE PHOTOGRAPHS

Enterprise Field Services, LLC Site Characterization Report / Remediation Plan Pump Canyon Compressor Station Ensolum Project No. 05A1226070



Photograph 4 Photograph Description: View of the excavation. Photograph 5 Photograph Description: View of the final excavation. 1000 CONTRACT ON 10 Photograph 6 11 Photograph Description: View of the final 12 excavation.

SITE PHOTOGRAPHS

Page 55 of 92

Enterprise Field Services, LLC Site Characterization Report / Remediation Plan Pump Canyon Compressor Station Ensolum Project No. 05A1226070



Photograph 7

Photograph Description: View of the final excavation.





APPENDIX E

Table 1 – Soil Analytical Summary

. Released to Imaging: 5/18/2022 3:04:36 PM

ENSOLUM

	TABLE 1													
	Pump Canyon Compressor Station													
	SOIL ANALYTICAL SUMMARY													
Sample I.D.	Sample I.D. Date Sample Type Sample Benzene Toluene Ethylbenzene Xylenes Total BTEX TPH TPH TPH Total Combined Total Combined Chloride											Chloride		
		C- Composite	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO	DRO	MRO	TPH	TPH	(mg/kg)
		G - Grab	. ,									(GRO/DRO)	(GRO/DRO/MRO)	
									(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria			10	NE	NE	NE	50				1,000	2,500	10,000	
						Composite	e Soil Samples	Removed by Exc	avation					
S-1	10.17.19	С	0 to 1.5	<0.019	0.25	0.18	4.3	4.7	51	1,800	730	1,851	2,581	<60
S-2	10.17.19	С	0 to 1.5	<0.019	<0.039	<0.039	<0.077	ND	<3.9	220	2,000	220	2,220	<60
						Exc	avation Compo	osite Soil Sample	S					
S-3	10.17.19	С	0 to 1.5	<0.021	<0.042	<0.042	<0.084	ND	<4.2	860	540	860	1,400	<60
S-4	10.17.19	С	0 to 1.5	<0.022	<0.045	<0.045	<0.089	ND	<4.5	370	310	370	680	<60
S-5	10.30.19	C	0 to 2	<0.017	<0.035	< 0.035	<0.070	ND	<3.5	<10	<50	ND	ND	81
HA-1@4'	11.01.19	C	4	<0.024	<0.049	<0.049	<0.098	ND	<4.9	9.8	<49	9.8	9.8	<60
HA-2@4'	11.01.19	C	4	<0.024	<0.048	<0.048	<0.097	ND	<4.8	13	<47	13	13	<60
Note: Concentration	ons in bold and	yellow exceed the a	applicable NM I	EMNRD Closure	e Criteria									

ND = Not Detected above the Practical Quantitation Limits or Reporting Limits

NA = Not Analyzed

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

TPH = Total Petroleum Hydrocarbon



APPENDIX F

Laboratory Data Sheets & Chain of Custody Documentation

. Released to Imaging: 5/18/2022 3:04:36 PM



October 23, 2019

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1910A19

RE: Pump Canyon CS

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/18/2019 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1910A19

Date Reported: 10/23/2019

CLIENT:	ENSOLUM	Client Sample ID: S-1							
Project:	Pump Canyon CS	Collection Date: 10/17/2019 10:00:00 AM							
Lab ID:	1910A19-001	Matrix: MEOH (SOIL) Received Date: 10/18/2019 8:05:00 AM							
Analyses		Result RL Qual Units DF Date Analyzed	Batch						

Analyses	Result	KL	Qua	Onits	DI	Date Analyzeu	Daten
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	10/18/2019 10:24:52 PM	A 48258
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	1800	96		mg/Kg	10	10/21/2019 6:18:23 PM	48254
Motor Oil Range Organics (MRO)	730	480		mg/Kg	10	10/21/2019 6:18:23 PM	48254
Surr: DNOP	0	70-130	S	%Rec	10	10/21/2019 6:18:23 PM	48254
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	51	3.8		mg/Kg	1	10/21/2019 2:19:24 PM	G63849
Surr: BFB	458	77.4-118	S	%Rec	1	10/21/2019 2:19:24 PM	G63849
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.019		mg/Kg	1	10/21/2019 2:19:24 PM	R63849
Toluene	0.25	0.038		mg/Kg	1	10/21/2019 2:19:24 PM	R63849
Ethylbenzene	0.18	0.038		mg/Kg	1	10/21/2019 2:19:24 PM	R63849
Xylenes, Total	4.3	0.076		mg/Kg	1	10/21/2019 2:19:24 PM	R63849
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	1	10/21/2019 2:19:24 PM	R63849

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
- Н 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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 8

Analytical Report Lab Order 1910A19

Date Reported: 10/23/2019

CLIENT:	ENSOLUM	Client Sample ID: S-2								
Project:	Pump Canyon CS	Collection Date: 10/17/2019 10:05:00 AM								
Lab ID:	1910A19-002	Matrix: MEOH (SOIL) Received Date: 10/18/2019 8:05:00 AM								
Analysee	,	Result DI Qual Units DE Date Analyzed Ba	tek							

Analyses	Result	KL	Quai	Units	Dr	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	10/18/2019 10:37:13 PI	M 48258
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	220	98		mg/Kg	10	10/21/2019 6:42:48 PM	48254
Motor Oil Range Organics (MRO)	2000	490		mg/Kg	10	10/21/2019 6:42:48 PM	48254
Surr: DNOP	0	70-130	S	%Rec	10	10/21/2019 6:42:48 PM	48254
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	10/21/2019 2:42:09 PM	G63849
Surr: BFB	94.3	77.4-118		%Rec	1	10/21/2019 2:42:09 PM	G63849
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.019		mg/Kg	1	10/21/2019 2:42:09 PM	R63849
Toluene	ND	0.039		mg/Kg	1	10/21/2019 2:42:09 PM	R63849
Ethylbenzene	ND	0.039		mg/Kg	1	10/21/2019 2:42:09 PM	R63849
Xylenes, Total	ND	0.077		mg/Kg	1	10/21/2019 2:42:09 PM	R63849
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	10/21/2019 2:42:09 PM	R63849

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
- Н 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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 1910A19

Date Reported: 10/23/2019

CLIENT:	ENSOLUM	Client Sample ID: S-3
Project:	Pump Canyon CS	Collection Date: 10/17/2019 10:10:00 AM
Lab ID:	1910A19-003	Matrix: MEOH (SOIL) Received Date: 10/18/2019 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	ND	60		mg/Kg	20	10/18/2019 10:49:33 PM	1 48258
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	BRM
Diesel Range Organics (DRO)	860	95		mg/Kg	10	10/21/2019 7:07:04 PM	48254
Motor Oil Range Organics (MRO)	540	480		mg/Kg	10	10/21/2019 7:07:04 PM	48254
Surr: DNOP	0	70-130	S	%Rec	10	10/21/2019 7:07:04 PM	48254
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	10/21/2019 3:04:53 PM	G63849
Surr: BFB	94.8	77.4-118		%Rec	1	10/21/2019 3:04:53 PM	G63849
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.021		mg/Kg	1	10/21/2019 3:04:53 PM	R63849
Toluene	ND	0.042		mg/Kg	1	10/21/2019 3:04:53 PM	R63849
Ethylbenzene	ND	0.042		mg/Kg	1	10/21/2019 3:04:53 PM	R63849
Xylenes, Total	ND	0.084		mg/Kg	1	10/21/2019 3:04:53 PM	R63849
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	10/21/2019 3:04:53 PM	R63849

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
- Н 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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1910A19 Date Reported: 10/23/2019

• /		Date Reported. 10/20/2019	
			4
			1
	Client Sample ID: S-4	4	

CLIENT:	ENSOLUM	Client Sample ID: S-4
Project:	Pump Canyon CS	Collection Date: 10/17/2019 10:15:00 AM
Lab ID:	1910A19-004	Matrix: MEOH (SOIL) Received Date: 10/18/2019 8:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	10/18/2019 11:26:33 PM	1 48258
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	370	9.7	mg/Kg	1	10/21/2019 7:31:23 PM	48254
Motor Oil Range Organics (MRO)	310	49	mg/Kg	1	10/21/2019 7:31:23 PM	48254
Surr: DNOP	95.2	70-130	%Rec	1	10/21/2019 7:31:23 PM	48254
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	10/21/2019 3:27:40 PM	G63849
Surr: BFB	92.9	77.4-118	%Rec	1	10/21/2019 3:27:40 PM	G63849
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.022	mg/Kg	1	10/21/2019 3:27:40 PM	R63849
Toluene	ND	0.045	mg/Kg	1	10/21/2019 3:27:40 PM	R63849
Ethylbenzene	ND	0.045	mg/Kg	1	10/21/2019 3:27:40 PM	R63849
Xylenes, Total	ND	0.089	mg/Kg	1	10/21/2019 3:27:40 PM	R63849
Surr: 4-Bromofluorobenzene	99.4	80-120	%Rec	1	10/21/2019 3:27:40 PM	R63849

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 8

Hall Env	ironmental Analysis Laboratory, Inc.	WO#: 1910A19 23-Oct-19
Client:	ENSOLUM	
Project:	Pump Canyon CS	

Sample ID: MB-48258	SampT	ype: mb	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PBS	Batch	n ID: 482	258	F	RunNo: 6	3831				
Prep Date: 10/18/2019	Analysis D	Date: 10)/18/2019	S	SeqNo: 2	182048	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-48258	SampT	ype: Ics	;	Tes	tCode: El	PA Method	300.0: Anion	s		
Sample ID: LCS-48258 Client ID: LCSS	SampT Batch	ype: Ics 1 ID: 48 2	258	Tes F	tCode: El	PA Method 3831	300.0: Anion	S		
Sample ID: LCS-48258 Client ID: LCSS Prep Date: 10/18/2019	SampT Batch Analysis D	⁻ ype: Ics n ID: 48 2 Date: 10	258 0/18/2019	Tes F S	tCode: El RunNo: 6: SeqNo: 2	PA Method 3831 182049	300.0: Anion Units: mg/K	s		
Sample ID: LCS-48258 Client ID: LCSS Prep Date: 10/18/2019 Analyte	SampT Batch Analysis D Result	Type: Ics n ID: 482 Date: 10 PQL	5 258)/18/2019 SPK value	Tes F S SPK Ref Val	tCode: Ef RunNo: 6 SeqNo: 2 %REC	PA Method 3831 182049 LowLimit	300.0: Anion Units: mg/K HighLimit	s 9 %RPD	RPDLimit	Qual

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

ENSOLUM

Pump Canyon CS

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Sample ID: LCS-48254	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch I	D: 482	254	F	RunNo: 6	3833				
Prep Date: 10/18/2019	Analysis Dat	e: 10	/21/2019	S	SeqNo: 2	182087	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	3.9		5.000		78.0	70	130			
Sample ID: MB-48254	SampTyp	e: MB	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch I	D: 482	254	F	RunNo: 6	3833				
Prep Date: 10/18/2019	Analysis Dat	e: 10	/21/2019	5	SeqNo: 2	182088	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	8.3		10.00		83.3	70	130			
Sample ID: MB-48215	SampTyp	e: MB	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch I	D: 482	215	F	RunNo: 6	3833				
Prep Date: 10/17/2019	Analysis Dat	e: 10	/21/2019	S	SeqNo: 2	182089	Units: %Re	•		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.1		10.00		80.9	70	130			

Qualifiers:

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

- RL Reporting Limit

WO#: 1910A19 23-Oct-19

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, In

	WO#:	1910A19	
l Analysis Laboratory, Inc.		23-Oct-19	

Client: Project:	ENSOLU Pump Car	M 1yon CS									
Sample ID:	1910A19-001A MS	SampT	Гуре: М	3	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	S-1	Batcl	h ID: Ge	3849	F	RunNo: 6	3849				
Prep Date:		Analysis D	Date: 1	0/21/2019	5	SeqNo: 2	182539	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	69	3.8	19.04	50.57	95.2	69.1	142			
Surr: BFB		3400		761.6		450	77.4	118			S
Sample ID:	1910A19-001A MS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	S-1	Batcl	h ID: G6	3849	F	RunNo: 6	3849				
Prep Date:		Analysis D	Date: 1	0/21/2019	S	SeqNo: 2	182540	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	66	3.8	19.04	50.57	79.2	69.1	142	4.55	20	
Surr: BFB		3400		761.6		452	77.4	118	0	0	S
Sample ID:	2.5UG GRO LCS	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID:	LCSS	Batcl	h ID: G	3849	F	RunNo: 6	3849				
Prep Date:		Analysis D	Date: 1	0/21/2019	S	SeqNo: 2	182544	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	25	5.0	25.00	0	98.9	80	120			
Surr: BFB		1200		1000		117	77.4	118			
Sample ID:	RB	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batcl	h ID: G	3849	F	RunNo: 6	3849				
Prep Date:		Analysis D	Date: 1	0/21/2019	S	SeqNo: 2	182545	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		1000		1000		102	77.4	118			

Qualifiers:

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- 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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1910A19

WO#:	1910A
	22.04

23-Oct-19	J
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Client:	ENSOLUI	М										
Project:	Pump Can	yon CS										
Sample ID: 100N0	G BTEX LCS	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles			
Client ID: LCSS		Bato	h ID: R6	3849	F	RunNo: 6	3849					
Prep Date:		Analysis I	Date: 10)/21/2019	5	SeqNo: 2	182821	Units: mg/ł	۲g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.96	0.025	1.000	0	96.5	80	120				
Toluene		0.94	0.050	1.000	0	94.1	80	120				
Ethylbenzene		0.92	0.050	1.000	0	92.3	80	120				
Xylenes, Total		2.8	0.10	3.000	0	92.9	80	120				
Surr: 4-Bromofluorob	oenzene	1.1		1.000		107	80	120				
Sample ID: 1910A	19-002A MS	Samp	Туре: МS	6	Tes	tCode: El	PA Method	8021B: Vola	tiles			
Client ID: S-2		Bato	h ID: R6	3849	F	RunNo: 6	3849					
Prep Date:		Analysis I	Date: 10)/21/2019	5	SeqNo: 2	182828	Units: mg/ł	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.69	0.019	0.7716	0.008287	88.6	76	123				
Toluene		0.72	0.039	0.7716	0.007446	92.9	80.3	127				
Ethylbenzene		0.72	0.039	0.7716	0.01192	92.3	80.2	131				
Xylenes, Total		2.1	0.077	2.315	0.02592	90.5	78	133				
Surr: 4-Bromofluorob	oenzene	0.79		0.7716		102	80	120				
Sample ID: 1910A	19-002A MSE) Samp	Туре: МS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles			
Client ID: S-2		Bato	h ID: R6	3849	RunNo: 63849							
Prep Date:		Analysis I	Date: 10)/21/2019	S	SeqNo: 2	182829	Units: mg/k	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.65	0.019	0.7716	0.008287	83.7	76	123	5.62	20		
Toluene		0.68	0.039	0.7716	0.007446	87.2	80.3	127	6.24	20		
Ethylbenzene		0.68	0.039	0.7716	0.01192	86.6	80.2	131	6.26	20		
Xylenes, Total		2.0	0.077	2.315	0.02592	85.4	78	133	5.73	20		
Surr: 4-Bromofluorob	benzene	0.79		0.7716		102	80	120	0	0		
Sample ID: RB		Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles			
Client ID: PBS		Bato	h ID: R6	3849	F	RunNo: 6						
Prep Date:		Analysis I	Date: 10)/21/2019	5	SeqNo: 2	٢g					
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: 4-Bromofluorob	benzene	1.1		1.000		105	80	120				

Qualifiers:

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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TEL: 305-345-3975 FAX: 505-345-4107 Website: www.halfenvironmexial.com Client Name: ENSOLUM AZTEC Work Order Number: 1910A19 ReptNo: 1 Received By: Erin Melendrez 10/18/2019 8:05:00 AM Website: www.halfenvironmexial.com Chain of Custody 10/18/2019 8:05:00 AM Website: www.halfenvironmexial.com Website: www.halfenvironmexial.com Chain of Custody 10/18/2019 8:26:50 AM Website: www.halfenvironmexial.com Website: www.halfenvironmexial.com 2. How was the sample delivered? Courier Courier Courier Log In 3. Was an attempt made to cool the samples? Yes IV No NA 4. Were all sample volume for indicated test(s)? Yes IV No NA 5. Sample(s) in proper container(s)? Yes IV No NA 6. Sufficient sample volume for indicated test(s)? Yes IV No NA 7. Are samples (except VOA and ONG) properly preserved? Yes IV No NA 9. VOA vials have zero headspace? Yes IV No No NA 10. Were any sample containers received broken? Yes IV No If of preserved bottles checked for pti: (<2 or zHz unless: Adjusted?) 10. Were any sample containers received broken? Yes IV No No Adju	ist
Client Name: ENSOLUM AZTEC Work Order Number: 1910A19 RcptNo: 1 Received By: Erin Melendrez 10/18/2019 8:05:00 AM WWW WWW Reviewed BW Completed By: Erin Melendrez 10/18/2019 8:26:50 AM WWW Reviewed BW Reviewed By: Image: State	191
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10. Were any sample containers received broken? Yes No ✓ 11. Does paperwork match bottle labels? Yes No ✓ (Note discrepancies on chain of custody) Yes No ✓ 12. Are matrices correctly identified on Chain of Custody? Yes No ✓ 13. Is it clear what analyses were requested? Yes No ✓ 14. Were all holding times able to be met? Yes No ✓ (If no, notify customer for authorization.) Yes No ✓ Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No Na 98 Whom: Date:	
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15. Was client notified of all discrepancies with this order? Yes No NA ✓ Person Notified: Date: ✓	
Person Notified: Date: By Whom: Via: Regarding: In Person	
By Whom: Via: eMail Phone Fax In Person	
Regarding:	
Client Instructions:	
16. Additional remarks:	
17. Cooler Information	
Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By	

Page 1 of 1

Client: Mailing	Chain Ensol Address ecynr #:	-of-Cu	SRID Grande Suitet	Turn-Around	urn-Around Time: Standard Rush 10-22-19 roject Name: Pump Canyon CS roject #: See notes HALL ENVIRONMENT ANALYSIS LABORATO www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request							NTA	AL RY							
email o QA/QC I □ Stan Accredi	r Fax#: k Package: dard tation AP	<u>Summ</u> □ Othe	Level 4 (Full Validation)	Project Manager: Kswmmers Sampler: CD'Aponti					TPH (Gas only)	0 / DRO / MRO)	8.1)	4.1)		3,NO2,PO4,SO4)	/ 8082 PCB's		()			
Date	(Type) _	Matrix	Sample Request ID	Sample Temp Container Type and #	perature: 2, 8 Preservative Type	<u>-0.ч</u> н 1910	CD=Z.4°C EAL NO.	BTEX + MTBE +	BTEX + MTBE +	TPH 8015B (GR	TPH (Method 41	EDB (Method 50	RCRA 8 Metals	Anions (F,CI,NO	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA	CNIORIDES		
10/17/19	1000	S	S-1	1× Yoz Jur	6001	-001		×		\times								×		
10/17/19	1005	5	5-2	1 x YozJar	(001	-007		×		\times								×		
10/17/19	1010	5	5-3	1x Yoz Jar	coul	-003)	X		×								×		
10/17/19	1015	5	5-4	1x Yoz Jar	(001	-004		X		*								×		
Date: $\frac{1}{17}/19$ Date: $\frac{1}{17}/19$ If	Time: Time: 1820 necessary, s	Relinquishe Relinquishe	ed by: ad by: the Doube- nitted to Hall Environmental may be subco	Received by: Received by: Received by:	Waut G	Date	Time Time Time 0805	Ren	narks	3: Any sub	-contra	Pro Pay	ta will	im 1-	Lond GG	1158	EPe CO	(do	report	



November 04, 2019

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1910F58

RE: Pump Canyon CS

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/31/2019 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1910F58

Date Reported: 11/4/2019

Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 ENSOLUM
 Client Sample ID: S-5

 Project:
 Pump Canyon CS
 Collection Date: 10/30/2019 9:30:00 AM

 Lab ID:
 1910F58-001
 Matrix: MEOH (SOIL)
 Received Date: 10/31/2019 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	81	60	mg/Kg	20	10/31/2019 11:31:03 AM	A 48509
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/31/2019 10:59:26 AM	A 48508
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/31/2019 10:59:26 AM	A 48508
Surr: DNOP	93.3	70-130	%Rec	1	10/31/2019 10:59:26 AM	A 48508
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	10/31/2019 8:23:43 AM	48491
Surr: BFB	94.8	77.4-118	%Rec	1	10/31/2019 8:23:43 AM	48491
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.017	mg/Kg	1	10/31/2019 8:23:43 AM	48491
Toluene	ND	0.035	mg/Kg	1	10/31/2019 8:23:43 AM	48491
Ethylbenzene	ND	0.035	mg/Kg	1	10/31/2019 8:23:43 AM	48491
Xylenes, Total	ND	0.070	mg/Kg	1	10/31/2019 8:23:43 AM	48491
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	10/31/2019 8:23:43 AM	48491

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 5

Client: Project:	ENSC Pump	LUM Canyon CS									
Sample ID: MB-48509 SampType: mblk TestCode: EPA Method 300.0: Anions											
Client ID: PBS Batch ID: 48509 RunNo: 64117											
Prep Date:	Prep Date: 10/31/2019 Analysis Date: 10/31/2019 Se							Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-48509	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 48	509	R	unNo: 64	1 117				
Prep Date:	10/31/2019	Analysis D	ate: 10	0/31/2019	S	eqNo: 21	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	99.7	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 2 of 5

1910F58

04-Nov-19

WO#:

. Released to Imaging: 5/18/2022 3:04:36 PM
ENSOLUM

Pump Canyon CS

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

47

4.0

9.4

47.21

4.721

5.683

Sample ID:	LCS-48508	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID:	LCSS	Batch	n ID: 48	508	F	unNo: 64	4116						
Prep Date:	10/31/2019	Analysis D	ate: 10	0/31/2019	S	eqNo: 2	194222	Units: mg/K	íg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range	Organics (DRO)	51	10	50.00	0	102	63.9	124					
Surr: DNOP		4.0		5.000		80.6	70	130					
Sample ID:	MB-48508	SampT	ype: ME	BLK	Tes	Code: EF	PA Method	1 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch	n ID: 48	508	F	unNo: 64	4116						
Prep Date:	10/31/2019	Analysis Date: 10/31/2019 SeqNo: 2194223						Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range	Organics (DRO)	ND	10										
Motor Oil Rang	ge Organics (MRO)	ND	50										
Surr: DNOP		8.9		10.00		88.6	70	130					
Sample ID:	1910F58-001AMS	SampT	уре: М	6	Tes	Code: EF	PA Method	d 8015M/D: Diesel Range Organics					
Client ID:	S-5	Batch	n ID: 48	508	F	RunNo: 64116							
Prep Date:	10/31/2019	Analysis D	ate: 10	0/31/2019	5	eqNo: 2	195324	Units: mg/K	ſg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range	Organics (DRO)	42	9.0	44.76	5.683	80.4	57	142					
Surr: DNOP		3.8		4.476		84.3	70	130					
Sample ID:	1910F58-001AMS) SampT	ype: M	SD	Tes	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics			
Client ID:	S-5	Batch	n ID: 48	508	F	unNo: 64	4116						
Prep Date:	10/31/2019	Analysis D	ate: 10	te: 10/31/2019 SeqNo: 2195325					(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Diesel Range Organics (DRO)

Surr: DNOP

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank в

88.0

85.5

57

70

142

130

12.5

0

20

0

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 3 of 5

WO#: 1910F58

1

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: ENSOI Project: Pump (ENSOLUM Pump Canyon CS										
Sample ID: MB-48491	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e		
Client ID: PBS	Batch	ID: 484	491	F	RunNo: 64	4127					
Prep Date: 10/30/2019	Analysis D	ate: 10)/31/2019	S	SeqNo: 2	194628	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1000		1000		100	77.4	118				
Sample ID: LCS-48491	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e		
Client ID: LCSS	Batch	ID: 48	491	F	RunNo: 64	4127					
Prep Date: 10/30/2019	Analysis D	ate: 10)/31/2019	S	SeqNo: 2	194629	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	89.4	80	120				
Surr: BFB	1100		1000		112	77.4	118				

Qualifiers:

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

1910F58

04-Nov-19

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1910	F58
	0 4 37	10

04-Nov-19

Client: Project:	ENSOLUM Pump Canyo	on CS									
Sample ID: MB-4	8491	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS		Batch	ID: 484	491	R	RunNo: 64127					
Prep Date: 10/3	0/2019 A	nalysis D	ate: 10	/31/2019	SeqNo: 2194655			Units: mg/K	g		
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: 4-Bromofluorol	benzene	1.1		1.000		108	80	120			
Sample ID: LCS-4	48491	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	;	Batch	ID: 484	491	R	unNo: 64	4127				
Prep Date: 10/3	0/2019 A	nalysis D	ate: 10	/31/2019	S	eqNo: 21	194656	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.98	0.025	1.000	0	98.2	80	120			
Toluene		0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene		0.97	0.050	1.000	0	97.4	80	120			
Xylenes, Total		2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorol	benzene	1.1		1.000		110	80	120			

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
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- 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 5

HALL ENVIRONMENTAL ANALYSIS LABORATORY			Ha TE	ull Environme EL: 505-345-, Website: ww	ental Analy 49(Albuquero 3975 FAX: w.hallenvi	vsis Lab)1 Hawi que, NM 505-34 ronmen	oratory kins NE 1 87109 15-4107 tal.com	Sample Log-In Check List				
Client Name:	ENSOLUM	AZTEC	Work	Order Num	nber: 191	0F58			RcptNo: 1			
Received By:	Juan	Rojas	10/31/2	2019 8:00:0	0 AM							
Completed By:	Leah Bac	a	10/31/2	2019 8:33:0	5 AM		1_1	Bae	8			
Reviewed By:	Dm 10	0/31/10	1				Lur	Ja				
Chain of Cus	<u>tody</u>											
1. Is Chain of Co	ustody comp	olete?			Yes	\checkmark	No		Not Present			
2. How was the	sample deliv	vered?			<u>Cou</u>	rier						
Log In												
3. was an attem	pt made to	cool the samp	les?		Yes		No					
4. Were all samp	les received	l at a tempera	ture of >0° C	to 6.0°C	Yes		No					
5. Sample(s) in p	proper conta	iner(s)?			Yes	\checkmark	No					
6. Sufficient sam	ple volume f	for indicated te	est(s)?		Yes	\checkmark	No					
7. Are samples (except VOA	and ONG) pro	operly preserve	ed?	Yes	\checkmark	No					
8. Was preservat	tive added to	bottles?			Yes		No	✓	NA 🗌			
9. VOA vials have	e zero head	space?			Yes		No		No VOA Vials 🔽			
10. Were any sam	nple containe	ers received b	roken?		Yes		No	✓	# of preserved			
11. Does paperwo	rk match bo	ttle labels?			Yes	\checkmark	No		bottles checked for pH:			
(Note discrepa	ncies on ch	ain of custody)						(<2 or >12 unless noted)			
12. Are matrices c	orrectly iden	tified on Chai	n of Custody?		Yes	\checkmark	No		Adjusted?			
13. Is it clear what	analyses w	ere requested	?		Yes	\checkmark	No					
14. Were all holdir (If no, notify cu	ng times able istomer for a	e to be met? authorization.)			Yes	\checkmark	No		Checked by: DAD (0/31/19			
Special Handli	ing (if app	olicable)										
15. Was client not	tified of all d	iscrepancies v	with this order	?	Yes		No		NA 🗹			
Person	Notified:	[Date				*****				
By Who	m:	[Via:	eM	ail 🗌	Phone] Fax	In Person			
Regardi	ng:	[
Client In	structions:	[
16. Additional rer	narks:											
17. <u>Cooler Inform</u>	mation	0					nining genetation		1			
1	nemp ℃ 0.2	Good	Seal Intact	Seal No	Seal D	ate	Signed	Ву				
	V. C	10000	103									

Page 1 of 1

Client: Mailing Phone	Client: Ensolum Mailing Address: Loob S Rio Goonda Suit A S7410 Phone #: email or Fax#:			Turn-Around Time: Same Day □ Standard Ø Rush <u>H=H+9</u> cw Project Name: Pump Cangon CS Project #:				HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request										
Accred	r Fax#: Package idard itation: AC (Type)	Az Co	Level 4 (Full Validation) ompliance er	Project Mana K Sampler: On Ice: # of Coolers: Cooler Temp Container	ager: CommerS CDApant E-Yes D(including CF): Preservative	D = 0.2 - 0 = 0.2 - 0.2 - 0.1 - 0 = 0.1 - 0 = 0.1 - 0 = 0.1 + 0.	TEX / MTBE / TMB's (8021)	PH:8015D(GRO / DRO / MRO)	081 Pesticides/8082 PCB's	DB (Method 504.1)	AHs by 8310 or 8270SIMS	CRA 8 Metals	, F, Br, NO3, NO2, PO4, SO4	260 (VOA)	270 (Semi-VOA)	otal Coliform (Present/Absent)		
	530					-00												
Date: 13/ Date: 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/	Time: 622 Time: §	Relinquist	ned by: hed by: hed by: het hallo-	Received by: Received by: Received by:	Via: <u>Via:</u> Via: (uw;er	Date Time 10/30/19 1672 Date Time 10 3119 8:00	Rem	larks	s: Pa	Pm S	TC Ki	om g	Le Colo	sng	, '58	20		

Received by OCD: 11/5/2020-10:28:56 AM-



November 08, 2019

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1911048

Dear Kyle Summers:

RE: Pump Canyon CS

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/2/2019 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1911048

Date Reported: 11/8/2019

11/5/2019 1:32:03 PM 48579

CLIENT:	ENSOLUM	Client Sample ID: HA-1 @ 4'										
Project:	Pump Canyon CS		(Collection Dat	e: 11	/1/2019 9:30:00 AM						
Lab ID:	1911048-001	Matrix: SOIL		Received Dat	e: 11	/2/2019 9:50:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA MET	THOD 300.0: ANIONS					Analyst	: CJS					
Chloride		ND	60	mg/Kg	20	11/5/2019 5:54:11 PM	48597					
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM					
Diesel R	ange Organics (DRO)	9.8	9.8	mg/Kg	1	11/6/2019 12:21:28 PM	48589					
Motor Oi	il Range Organics (MRO)	ND	49	mg/Kg	1	11/6/2019 12:21:28 PM	48589					
Surr: I	DNOP	100	70-130	%Rec	1	11/6/2019 12:21:28 PM	48589					
EPA MET	THOD 8015D: GASOLINE RANGI	E				Analyst	: NSB					
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	11/5/2019 1:32:03 PM	48579					
Surr: I	BFB	89.7	77.4-118	%Rec	1	11/5/2019 1:32:03 PM	48579					
EPA ME	THOD 8021B: VOLATILES					Analyst	: NSB					
Benzene	9	ND	0.024	mg/Kg	1	11/5/2019 1:32:03 PM	48579					
Toluene		ND	0.049	mg/Kg	1	11/5/2019 1:32:03 PM	48579					
Ethylben	izene	ND	0.049	mg/Kg	1	11/5/2019 1:32:03 PM	48579					
Xylenes,	Total	ND	0.098	mg/Kg	1	11/5/2019 1:32:03 PM	48579					

93.7

80-120

%Rec

1

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Analytical Report Lab Order 1911048

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/8/2019

CLIENT:	ENSOLUM	Client Sample ID: HA-2 @ 4'									
Project:	Pump Canyon CS		(Collection Da	te: 11	/1/2019 9:35:00 AM					
Lab ID:	1911048-002	Matrix: SOIL		Received Da	te: 11	/2/2019 9:50:00 AM					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA MET	HOD 300.0: ANIONS					Analyst	CJS				
Chloride		ND	60	mg/Kg	20	11/5/2019 6:55:55 PM	48597				
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Ra	ange Organics (DRO)	13	9.3	mg/Kg	1	11/6/2019 12:43:15 PM	48589				
Motor Oil	I Range Organics (MRO)	ND	47	mg/Kg	1	11/6/2019 12:43:15 PM	48589				
Surr: E	DNOP	98.0	70-130	%Rec	1	11/6/2019 12:43:15 PM	48589				
EPA MET	HOD 8015D: GASOLINE RANGE	E				Analyst	NSB				
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	11/5/2019 3:05:54 PM	48579				
Surr: E	3FB	93.4	77.4-118	%Rec	1	11/5/2019 3:05:54 PM	48579				
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB				
Benzene		ND	0.024	mg/Kg	1	11/5/2019 3:05:54 PM	48579				
Toluene		ND	0.048	mg/Kg	1	11/5/2019 3:05:54 PM	48579				
Ethylben	zene	ND	0.048	mg/Kg	1	11/5/2019 3:05:54 PM	48579				
Xylenes,	Total	ND	0.097	mg/Kg	1	11/5/2019 3:05:54 PM	48579				
Surr: 4	1-Bromofluorobenzene	97.2	80-120	%Rec	1	11/5/2019 3:05:54 PM	48579				

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 2 of 6

Analyte

Chloride

Prep Date: 11/5/2019

Analysis Date: 11/5/2019

Result

15

PQL

1.5

15.00

Client: ENS Project: Pun	SOLUM np Canyon CS		
Sample ID: MB-48597	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID: PBS	Batch ID: 48597	RunNo: 64258	
Prep Date: 11/5/2019	Analysis Date: 11/5/2019	SeqNo: 2199039 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDI	imit Qual
Chloride	ND 1.5		
Sample ID: LCS-48597	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 48597	RunNo: 64258	

SPK value SPK Ref Val %REC LowLimit

0

SeqNo: 2199040

98.3

Units: mg/Kg

110

HighLimit

90

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

1911048

08-Nov-19

WO#:

RPDLimit

Qual

%RPD

ENSOLUM

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

. Released to Imaging: 5/18/2022 3:04:36 PM

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

Sample Diluted Due to Matrix

Practical Quanitative Limit

Not Detected at the Reporting Limit

Qualifiers:

*

D

Н

ND

PQL

S

Project: Pump	p Canyon CS									
Sample ID: LCS-48589	SampTy	be: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch I	D: 48	589	F	RunNo: 64	4266				
Prep Date: 11/5/2019	Analysis Da	Analysis Date: 11/6/2019			SeqNo: 2	199440	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	63.9	124			
Surr: DNOP	5.2		5.000		104	70	130			
Sample ID: MB-48589	SampTy	be: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Sample ID: MB-48589 Client ID: PBS	SampTy Batch I	DE: ME	3LK 589	Tes F	tCode: El	PA Method 4266	8015M/D: Di	esel Rango	e Organics	
Sample ID: MB-48589 Client ID: PBS Prep Date: 11/5/2019	SampTyj Batch I Analysis Da	De: ME D: 48 te: 11	3LK 589 1/6/2019	Tes F S	tCode: El RunNo: 6 SeqNo: 2	PA Method 4266 199442	8015M/D: Die Units: mg/K	esel Range (g	e Organics	
Sample ID: MB-48589 Client ID: PBS Prep Date: 11/5/2019 Analyte	SampTyj Batch I Analysis Da Result	De: ME D: 48 te: 1 1 PQL	3LK 589 1/6/2019 SPK value	Tes F S SPK Ref Val	tCode: Ef RunNo: 64 SeqNo: 2 %REC	PA Method 4266 199442 LowLimit	8015M/D: Die Units: mg/k HighLimit	esel Rango Kg %RPD	e Organics RPDLimit	Qual
Sample ID: MB-48589 Client ID: PBS Prep Date: 11/5/2019 Analyte Diesel Range Organics (DRO)	SampTyj Batch I Analysis Da Result ND	De: ME D: 48 te: 1 1 PQL 10	BLK 589 I/6/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 6 SeqNo: 2 %REC	PA Method 4266 199442 LowLimit	8015M/D: Die Units: mg/K HighLimit	esel Rango (g %RPD	e Organics RPDLimit	Qual
Sample ID: MB-48589 Client ID: PBS Prep Date: 11/5/2019 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRC	SampTyj Batch I Analysis Da Result ND) ND	De: ME D: 48 te: 1 1 PQL 10 50	3LK 589 1/6/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 6 SeqNo: 2 %REC	PA Method 4266 199442 LowLimit	8015M/D: Die Units: mg/K HighLimit	esel Rang Kg %RPD	e Organics	Qual

- Analyte detected in the associated Method Blank в
- Е
- J Analyte detected below quantitation limits
- Reporting Limit
- Value above quantitation range
- Р Sample pH Not In Range
- RL

Page 4 of 6

WO#: 1911048

08-Nov-19

1

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: ENSOL Project: Pump C	LUM Canyon CS										
Sample ID: MB-48579	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e		
Client ID: PBS	Batch	ID: 48	579	R	RunNo: 64	4244					
Prep Date: 11/4/2019	Analysis D	ate: 11	/5/2019	S	SeqNo: 2	198527	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Basoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1000		1000		103	77.4	118				
Sample ID: LCS-48579	SampT	ype: LC	S	Test	tCode: El	PA Method	8015D: Gasc	line Rang	e		
Client ID: LCSS	Batch	ID: 48	579	R							
Prep Date: 11/4/2019	Analysis D	ate: 11	/5/2019	S	SeqNo: 2	198528	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Basoline Range Organics (GRO)	23	5.0	25.00	0	91.9	80	120				
Surr: BFB	1100		1000		106	77.4	118				

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 6

1911048

08-Nov-19

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1911048
	00 17 10

08-Nov-19

Client: Project:	ENSOLU Pump Ca	JM anyon CS									
Sample ID: M	IB-48579	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: P	BS	Batch	n ID: 48	579	F						
Prep Date:	11/4/2019	Analysis D	Date: 11	/5/2019	S	SeqNo: 2	198574	Units: mg/k	٢g		
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: 4-Bromofl	uorobenzene	1.1		1.000		106	80	120			
Sample ID: L	CS-48579	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: L	css	Batch	n ID: 48	579	F	RunNo: 64	4244				
Prep Date:	11/4/2019	Analysis D	Date: 11	/5/2019	S	SeqNo: 2	198575	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	1.000	0	101	80	120			
Toluene		1.1	0.050	1.000	0	107	80	120			
Ethylbenzene		1.1	0.050	1.000	0	108	80	120			
Xylenes, Total		3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofl	uorobenzene	1.1		1.000		109	80	120			

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 6

HALL ENVIRONMENTAL ANALYSIS LABORATORY			Ha TE	Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com					Sample Log-In Check Lis						
Client Name	ENSOLUN	AZTEC	Work	Order Nur	nber: 191	1048			RcptNo: 1						
Received By	y: Erin Mele	endrez	11/2/20	19 9:50:00	MA		Ú	MA							
Completed E Reviewed By	By: Erin Mele /: Dim 1 (ndrez b J 4/19	11/2/20	19 10:48:3	80 AM		Ű	MA							
<u>Chain of C</u>	ustody							•							
1. Is Chain c	of Custody comp	lete?			Yes	\checkmark	N	o 🗌	Not Present						
2. How was	the sample deliv	vered?			Cou	rier									
<u>Log In</u>															
3. Was an at	tempt made to	cool the sam	oles?		Yes	\checkmark	N	o 🗌							
4 14/							.1 200								
4. Were all sa	amples received	l at a tempera	ature of >0° C	to 6.0°C	Yes	\checkmark	N	o 🗆	NA 🗌						
5. Sample(s)	in proper conta	iner(s)?			Yes	\checkmark	No	b							
6. Sufficient s	sample volume f	or indicated t	est(s)?		Yes		No								
7. Are sample	es (except VOA	and ONG) pr	operly preserve	ed?	Yes		No								
8. Was prese	rvative added to	bottles?			Yes		No		NA 🗌						
9. VOA vials I	have zero heads	space?			Yes		No		No VOA Vials						
10. Were any	sample containe	ers received t	oroken?		Yes		No								
									# of preserved						
11.Does pape	rwork match bo	ttle labels?			Yes	\checkmark	No		for pH:						
(Note discr	epancies on cha	ain of custody	()						(<2 or >12 unle	ss noted)					
12. Are matrice	es correctly iden	tified on Cha	in of Custody?		Yes		No		Adjusted?						
13. Is it clear w	hat analyses we	ere requested	1?		Yes		No								
(If no, notify	olding times able y customer for a	e to be met? uthorization.)			Yes		No		Checked by: DAD 1	1/4/19					
Special Han	dling (if app	licable)							ł						
15. Was client	notified of all di	screpancies	with this order?		Yes		No	• 🗆	NA 🗹						
Pers	on Notified:			Date	· [-							
By W	Vhom:			Via		ii 🗖	Phone [
Rega	arding:		COMPOSITION CONSIGNATION CO.	vid.											
Clien	nt Instructions:			A CONTRACTOR FOR	21676510.00000000000000000000000000000000000										
16. Additional	remarks:								The fact the second sec						
17. <u>Cooler In</u> t	formation														
Cooler	No Temp °C	Condition	Seal Intact	Seal No	Seal Da	te	Signed	By	[
1	2.0	Good	Yes	100 C 100 C 100 C 100		enconación e la									
2	2.2	Good	Yes		and the second design		a section of the section of the								

Page 1 of 1

Ċ	Chain	-of-C	ustody Record	Turn-Around	d Time:					_									1	Kecet
Client: Easolum			- □ □ Standar		11-6-19				H			EN		IR	ON	IME	ENT	AL	vea t	
•	FISOIUMI		Project Name:				ANALYSIS LABORATORY								र स् र					
Mailing	Address	s: 1000	6 S Kio Grande	Pum	Pump Canyon CS				www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109								CD: 1			
Si	2:+1	4 8	7420	Project #:	Project #:			Tel. 505-345-3975 Fax 505-345-4107								///				
Phone	#:											A	nalys	is F	Requ	lest				
email c	or Fax#:			Project Mana	ager:	And Andrew Constant of the	-	Ô					(\mathbf{t})							10:
QA/QC	Package:		n lê dirî însekarî dirê x	К	Summe	25	3021	MR(B's		VS		04			oser	1			28:0
🗆 Star	ndard		□ Level 4 (Full Validation)	(2011/11	· _	s (8	1/0	PCI		VISC		DO			nt/Ak	al ala	1		00 A
Accred	itation:	□ Az Co	ompliance	Sampler:	C DADON	iti	- ₩	/ DR	082	.	827(102,			eser			1.00	M
	AC	□ Othe	r	On Ice:	🛱 Yes	□ No	Ţ	20	s/8	504	or	s	1		(YC	(Pre	3 -3	-		
) (Type)			# of Coolers	2			D(GI	cide	por	310	letal	04		ni-V0	E L				
				Cooler Temp	D(including CF): 7.7	$-0.2(cf) = 2.0^{\circ c}$	N N	015[esti	Meth	by 8	8	4	NOV	Ser	colife				
				Container	Preservative	HEAL No.	X	H:8(81 F	B (P	R	RA	H.	00	20 (al				
Date	Time	Matrix	Sample Name	Type and #	Туре	1911048	BI	Ę	80		PA	R	J)	82	82	P				
1/19	930	5	HA-104'	1402 152r	100	-001	X	X					7							
1/1/15	935	5	HA-204'	1402	(au)	-002	K	X					X				1			
	7.53																-			+
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Date:	Time:	Relinquish	ned by:	Received by:	Via:	Date Time	Rem	narks	: 2	60	T	non	16	00						-
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Date:	Time:	Relinquish	ed by:	Received by:	Via: COUNIC	Er Dáte Time			# al	2 17	eg	-	- n	-	20					age
en lu	1912	1 ni	with alta	TA	5	11/2/19				12.25					in No					80 (
	If necessary,	samples sul	omitted to Hall Environmental may be sub-	contracted to other a	ccredited laboratorie	es. This serves as notice of th	is possil	oility. A	Any sul	o-contra	acted	data w	rill be cl	early	notate	d on the	analytic	al report.		- 22



APPENDIX G

Regulatory Correspondence

From:	Smith, Cory, EMNRD
To:	Long, Thomas; kwchristesen@blm.gov
Cc:	Stone, Brian
Subject:	RE: Produced Water and Condensate Release - Pump Canyon Compressor Station - UL K Section 24 T30N R9W; 36.794997, -107.733385
Date:	Thursday, October 24, 2019 8:19:13 AM
Attachments:	image001.ipg

Tom,

I concur with your site characterization. Please keep in mind the Reclamation requirements.

RECLAMATION OF TOP FOUR FEET:

a. 19.15.29.13(D)(1) NMAC says "The reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division."

b. This language mirrors that associated with reclamation under the Pit Rule (19.15.17.13(H) (3) NMAC), for purposes of complying with the Spill Rule (19.15.29 NMAC). The word "uncontaminated" means soils not only with a chloride concentration of less than 600 mg/kg, but also a TPH concentration of no more than 100 mg/kg, a total BTEX concentration of no more than 50 mg/kg, and a benzene concentration of no more than 10 mg/kg. These are the most protective concentrations contained in Table I of <u>19.15.29.12</u> NMAC.

If you have any questions let me know.

Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, October 22, 2019 2:46 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; kwchristesen@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXT] FW: Produced Water and Condensate Release - Pump Canyon Compressor Station - UL K Section 24 T30N R9W; 36.794997, -107.733385

Cory/Kenneth,

Please find the attached site sketch, lab report and extracted pages from the facility BGT registration package. Enterprise established that this release site is required to be remediated to the NMOCD

Tier II standard. The attached extracted pages from the BGT application package has supporting data for the Tier II standard. With the recent sampling results attached, all sample results except S-1 pass the Tier II remediation standard. Enterprise will removed additional soil from the area where the soil sample S-1 was collected and resample. Please acknowledge that you are in agreement with the Tier II remediation standard. If you have any questions, please call or email.

Sincerely,

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Long, Thomas
Sent: Wednesday, October 16, 2019 2:57 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>;
kwchristesen@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Produced Water and Condensate Release - Pump Canyon Compressor Station - UL K

Section 24 T30N R9W; 36.794997, -107.733385

Cory/Kenneth,

This email is to notify you that Enterprise has scheduled soils sampling activities at the Pump Canyon Compressor Station excavation for tomorrow, October 17, 2019 at 9:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com

From: Long, Thomas
Sent: Wednesday, September 4, 2019 2:21 PM
To: 'Smith, Cory, EMNRD (<u>Cory.Smith@state.nm.us</u>)' <<u>Cory.Smith@state.nm.us</u>>;
'kwchristesen@blm.gov' <<u>kwchristesen@blm.gov</u>>

Subject: FW: Produced Water and Condensate Release - Pump Canyon Compressor Station - UL K Section 24 T30N R9W; 36.794997, -107.733385

Correction in Header. The correct facility is Pump Canyon Compressor Station.

Tom Long 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com

From: Long, Thomas
Sent: Wednesday, September 4, 2019 2:19 PM
To: 'Smith, Cory, EMNRD (<u>Cory.Smith@state.nm.us</u>)' <<u>Cory.Smith@state.nm.us</u>>;
'kwchristesen@blm.gov' <<u>kwchristesen@blm.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: Produced Water and Condensate Release - Pump Mesa Compressor Station - UL K Section 24 T30N R9W; 36.794997, -107.733385

Cory/Kenneth,

This email is a notification that Enterprise had a release of produced water and condensate at the Pump Canyon Compressor Station. The release occurred on August 28, 2019. There were no standing liquids at the time. The release was a result of a trucker not completely closing the valve on the tank. The release was not determined reportable until today when the gravel in the <u>unlined</u> secondary containment was removed and a significant amount of impacted soil was observed. The facility is located at UL K Section 24 T30N R9W; 36.794997, -107.733385. I will keep you informed as to when remediation and soil sample collection will be conducted. If you have any questions, please call or email.

Sincerely,

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) <u>tjlong@eprod.com</u>

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This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	11084
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
By		Date
nvelez	Deferral approved. Required to remediate & reclaim after decommissioning per 19.15.29.12C (2) & 19.15.29.13D (1).	5/18/2022

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CONDITIONS

Action 11084