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

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, NN 87401	Λ

## **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."

Incident ID	—— Page 2 of 92
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.

<u>&gt;50</u> (ft
bgs)
🗌 Yes 🔀 No
🗌 Yes 🛛 No
🗌 Yes 🛛 No
🗌 Yes 🛛 No
🗌 Yes 🛛 No
🗌 Yes 🛛 No
🗌 Yes 🛛 No
🗌 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

	020 10:28:56 AMState of New Mexico	Incident ID	Page 3 of 9
Page 3	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	

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: <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: <u>Director, Field Environmenta</u>	<u>1</u>
Signature: C/w Y. 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<sup>®</sup> 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)	(quai							,	3 UTM in meters)		(In feet	)
POD Number	POD Sub- Code basin C	ounty			-	Sec	Tws	Rng	х	Y		•	Water Column
SJ 00140	SJM2	SJ			1	25	30N	09W	255769	4074625* 🌍	10		
<u>SJ 02744</u>	SJM2	SJ	4	4 2	2	25	30N	09W	256992	4074273* 🌍	21	10	11
SJ 04066 POD1	SJM2	SJ		2 4	4	25	30N	09W	257174	4073384 🌍	260	200	60
	C=the file is closed)       (quarters are 1=NW 2=NE 3=SW 4=SE) (Quarters are smallest to largest)       (NAD83 UTM in meters)         POD       Q       Q       Q       Q       Deg         Sub-       Q       Q       Q       Z       Deg         Code basin       County       64 16 4       Sec       Tws       Rng       X       Y       W         SJM2       SJ       1       25       30N       09W       255769       4074625*       22         SJM2       SJ       4       4       2       25       30N       09W       256992       4074273*       22	o Water:	105 f	eet									
										Minimum	n Depth:	10 f	eet
										Maximum	n Depth:	200 f	eet
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 water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(qua						VE 3=SW b largest)	,	3 UTM in meters)		(In feet	)
POD Number	POD Sub- Code basin (	Count		0 Q 4 1 (	-		: Tws	Rng	х	Ŷ	-	-	Water Column
SJ 01516	SJM2	SJ		2	2	19	30N	08W	258304	4076302* 🌍	15	10	5
SJ 03467	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	08W	257393	4074282 🌍	23	13	10
										Average Depth to	Water:	13 f	eet
										Minimum	Depth:	10 f	eet
										Maximum	Depth:	21 f	eet
Record Count: 7					_								

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.

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20-04	5- 20491	-1		
30-04	5-20135 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_Sec34	_Twp_30_Rng_9_
	Name of Well/Wells or H	Pipeline Serviced RIDDLE	A COM # 260, # 3, 1	
, ,	Elevation <u>5716</u> Completic	on Date_8/20/90_Total D	epth_65Land	<u>cps 54w</u> <b>Type</b> 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	ury Petroleum Coke		
	Depths anodes placed: 6	Oft., 53 ft.	<u> </u>	VEM
	Depths vent pipes place	d: 65 ft.	MAY91 1	
	Vent pipe perforations:	20'	OIL CON.	
	Remarks:qb_#3 Well #2	)	\ 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.	Location:	Unit N See	c. <u>34 <b>Twp</b> 30</u> <b>Rn</b>
•	Name of Well/Wells or Pipeline Servic			<b>r</b>
				cps 54w
,	Elevation 5716 Completion Date 8/20/90	Total Dep	oth <u>65ft</u>	Land. TypeN
•	Casing Strings, Sizes, Types & Depths	<b>47 ft. 8</b> "	PVC Casing	
				·····
	If Casing Strings are cemented, show	amounts £	types use	dN/A
	If Cement or Bentonite Plugs have bee	en placed,	show dept	hs & amounts
	If Cement or Bentonite Plugs have bee N/A	en placed,	ąhow depti \	hs & amounts
•	N/A		<b>`</b>	
:,*	N/A Depths & thickness of water zones wit		<b>`</b>	
:.*	N/A		<b>`</b>	
:. <b>*</b>	N/A Depths & thickness of water zones wit Salty, Sulphur, Etc. <u>30 to 40 ft</u> .	ch descript	<b>`</b>	
:, <b>*</b>	N/A Depths & thickness of water zones with Salty, Sulphur, Etc	ch descript	tion of wa	ter: Fresh, C
:, <b>*</b>	N/A Depths & thickness of water zones wit Salty, Sulphur, Etc. <u>30 to 40 ft</u> .	ch descript	tion of wa	ter: Fresh, C
••••	N/A Depths & thickness of water zones with Salty, Sulphur, Etc	N/A N/A	tion of wa	ter: Fresh, C
	N/A Depths & thickness of water zones with Salty, Sulphur, Etc. <u>30 to 40 ft</u> . Depths gas encountered: Ground bed depth with type & amount of	N/A N/A	tion of wa	ter: Fresh, C
· · ·	N/A Depths & thickness of water zones with Salty, Sulphur, Etc. 30 to 40 ft. Depths gas encountered: Ground bed depth with type & amount of 65 ft. with 500 lbs Ashbury Petroleum Coke	N/A N/A	tion of wa	ter: Fresh, C
:. <b>*</b> :	N/A Depths & thickness of water zones with Salty, Sulphur, Etc. 30 to 40 ft. Depths gas encountered: Ground bed depth with type & amount of 65 ft. with 500 lbs Ashbury Petroleum Coke Depths anodes placed: 53 ft. 45 ft.	N/A N/A	tion of was	ter: Fresh, C
:.* :	N/A         Depths & thickness of water zones with         Salty, Sulphur, Etc.       30 to 40 ft.         Depths gas encountered:         Ground bed depth with type & amount of         65 ft. with 500 lbs Ashbury Petroleum Coke         Depths anodes placed:       53 ft. 45 ft.         Depths vent pipes placed:       65 ft.	N/A N/A	tion of was beze used:	ter: Fresh, C

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.

	D: 11/5/2020/10:28:56 AM Page 30 of 9
30-045- 30-045-	-20471 -21135 DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO
, a <b></b> .	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. <u><b>RECEIVEN</b></u>
	Vent pipe perforations: 20' MAY37 1991
	Remarks: <u>Sab-#3Well-#4</u> OIL CON. DIV
	DIST. 3

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 5716 Completion Date		
•.	Casing Strings, Sizes, Types 6	Depths B7 ft. 8" P	IC Casing
	Tf Caping Stuings two compations		
	If Casing Strings are cemented	l, Buow. amounts a t	
	If Cement or Bentonite Plugs h	ave been placed. a	how depths & amount
	N/A		-
		nes with descripti	on of water: Fresh.
	Depths & thickness of water so	_	on of water: Presh,
		_	on of water: Presh,
	Depths & thickness of water so Salty, Sulphur, Etc. 30 to 40 s	_	on of water: Presh,
•	Depths & thickness of water so Salty, Sulphur, Etc. <u>30 to 40 s</u> Depths gas encountered: <u>N/A</u>	ft.	• ··· .
•	Depths & thickness of water so Salty, Sulphur, Etc. 30 to 40 s	ft. mount of coke bree	• ··· .
•	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 (	ft. wount of coke bree Coke	ze used:
	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	ft. mount of coke bree Coke 48 ft.	ze used: DEEENWE

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
Received by OCD: 11/5/2020 10:28:56 AM 3D-045-09276 Page 32 Kiddul # # 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 <sup>SW</sup> Sec. <sup>24</sup> Twp <sup>30</sup> 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 #176</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	uld

\*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-A 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 das Hod to Have Drill STay in Hole UNTIL we could load Anodes Top of coke AT 38' Tried to Plag with Dirt UNBOLE TO Drilling Dept. To Handle plag.
215 the 1st - this hale habely contained large lavety - also wasted lake due to Water plan

NATURE OF INSPEC

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Nellen - Here - Chelton Stander - Attal March - Chelton - Chelton

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MORNING         DAYLIGHT         EVENING           Driller         Total Men In Crew         Driller         Total Men In Crew	LEASE	RII	111	WELL NO.	CC	ONTRACTOR	2 . 30	21	Vilson	IG NO.	2 REP	ORT NO.	DATE	nous	
FROM         FS         PORMATION         REBY         PS         PORMATION         PEOM         PS         PORMATION         PS			MOR					DAY	LIGHT						
NO. DC         BIZE         LUNG         NO. OC         BIZE         LUNG         NO. OC         BIZE         STABLE         STABL	Driller			Total Men Ir	n Crew 🛓	Driller			Total Men In	Crew	Driller		T	Fotal Men In Cre	w
NO. DC_SHZE         LERG.         NO. DC_SHZE         LERG.         NO. DC_SHZE         LERG.         NO. DC_SHZE         LERG.         NO. DC_SHZE	FROM	<u> </u>	>	FORMATION		A FROM	Т	ro	FORMATION	WT-BIT R.P.M.	FROM	то	FORMA	TION	WT-BIT
NO. DC						1 Burnell		8	sand,	1 1 1					
NO. DC_SIZE         LENC.         NO. DC_SIZE         LENC.         NO. DC_SIZE         LENC.         NO. DC_SIZE		[]				17	50	2	Sandy S	Austa					
NO. 0C							54	1	Santo 1						
BIT NO.     NO. D						54	10	0	Blue SI	ale					
STADS     SERIAL NO.     STADS     SERIAL NO.     STADS     SERIAL NO.     STADS       STZE     SINGLES     SIZE     SINGLES     SIZE     SINGLES     SIZE     SINGLES       TYPE     DOWN ON KELLY     TYPE     OON ON KELLY     TYPE     DOWN ON KELLY     TYPE     DOWN ON KELLY     TYPE     DOWN ON KELLY     MAKE     TOTAL DEPTH     MAKE				NO. DCSIZE	LENG.				NO. DCSIZE_	LENG			NO. DC	SIZE	L E
BIGLES         BZE         SINGLES         SUZE         SINGLES         SUZE         SINGLES         SUZE         SINGLES         DOWN ON KELLY         TYPE         DOWN ON KELLY         TYPE         DOWN ON KELLY         TYPE         DOWN ON KELLY         TYPE         TOTAL DEPTH         MAXE         TOTAL DEPTH         MAXE         TOTAL DEPTH         MAXE         TOTAL DEPTH         MAXE         TIME         MUD RECORD         MUD, ADDITIVES USED AND RECEIVED         MUD RECORD         MUD RECORD	ЭΙΤ ΝΟ.			NO. DC SIZE	LENG	BIT NO.			NO. DCSIZE	LENG	BIT NO.		NO. DC		<u> </u>
TYPE     DOWN ON KELLY     TYPE     DOWN ON KELLY     TYPE     OOWN ON KELLY     OOWN ON KELLY     TOTAL DEPTH     MAKE     MUD ADDITIVES USED AND RECEIVED     MUD ADDITIVES USE	SER NO.			STANDS		SERIAL NO	•		STANDS		SERIAL NO	·		STANDS	
MAKE         TOTAL DEPTH         NAKE         TOTAL DEPTH         MAKE         TOTAL DEPTH         MUD         MUD <td>SI Z E</td> <td></td> <td></td> <td>SINGLES</td> <td></td> <td>SIZE</td> <td></td> <td></td> <td>SINGLES</td> <td></td> <td>SIZE</td> <td></td> <td></td> <td>SINGLES</td> <td></td>	SI Z E			SINGLES		SIZE			SINGLES		SIZE			SINGLES	
MUD RECORD         MUD, ADDITIVES USED AND RECEIVED         MUD RECORD         MUD, ADDITIVES USED AND RECEIVED         MUD, ADDITIVES US	TYPE		······	DOWN ON KELLY		TYPE			DOWN ON KELLY		TYPE		DOWN	ON KELLY	
The     WL     Via       The     WL       Via     Time       Via <td< td=""><td>MAKE</td><td></td><td></td><td>TOTAL DEPTH</td><td>L</td><td>MAKE</td><td></td><td></td><td>TOTAL DEPTH</td><td></td><td>MAKE</td><td></td><td>тот</td><td>AL DEPTH</td><td></td></td<>	MAKE			TOTAL DEPTH	L	MAKE			TOTAL DEPTH		MAKE		тот	AL DEPTH	
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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 

<sup>.</sup> Released to Imaging: 5/18/2022 3:04:36 PM
# STORM WATER WELL DRILLING INC.

DIAMOND GROUTING

FOUNDA MINING QUARRYING SHAFT SINKING

ATER WELL DRIE

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Drill Owner,

Location City\_

4991 W AATH AVENUE GOLDEN, COLORADO 80401 PHONE (303) 278-9505

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CALL 1-838-44

Date 6-17-74

State County ALL ALL ALL AND From Formation Color. Hardnes **30** 🐨 15 lioo Ľ shal C 70 10 12a O 90 24',<sub>6</sub>79  $\mathcal{O}$ العبة بمنتجة والمعربة الم ىر ئولىدى Sec. 1 Bring 8 a 34 1. 子、小、物、学、学家、学家 n in the ·... 1.3027.3.11 ~r+\*\*\* لايل سال آراد مراجع المراجع المرجع 4. . . ¥ ·· . . . . . . م \*\*\*\*\*\*\*\*\*\* 13. 1. 1. 1. 1. 1. 1. . . . ÷. 2 ÷., 4 ٠. .... ۰. - : • • \* · · . ς, ۰, . الي حقيقة • ,\* **1**8

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Total Hours\_ C.P.S. Time the gran 1.1.1.1 Equipment Down Time S.W.W.D.I. Time

24 Hours Drilling Driller. Helper

a. 4 2. Helper:

**Total Footage** Approval of C.P.S. Engineer AL. NOW

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WELL CASING CATHUDIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach Hereto)

Completion Date 8-20-90

CPS #	7	Vell Name,	Line or Plant:			ork Order #			Static:		Ins. I	Jaion Check	•
-402 -		Riddi		m # 24	0		a-					Good	Bad
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<b>J</b> /	1	Riddl.	e A co	m # 9					1				
location:	~	An	ode Size:	Anode Typ	×.		ł	Size B	n: 6%	<i>'</i> 1			
N34-30-	7		2* × 60	A	NOTec				674	(			
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#1			Ψz			₩3			#	4			5
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#160	#2 -2	) 3 []	#3 60	# 4-53	5 5	'3' ¦#	1645 X	1#	, sy	#8 50	30	55	# 10 42
Anode Output (A		(1)	1	1 ( d	$\widehat{\mathbb{N}}$	1	1	( )				~ `	1 1
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Total Circuit Re	esistand	e ¦		1		1	No. 8 C.P. Cal	ble L	Jsed		No.	2 C.P. Cal	ble Used
Volts		Amp	s	Ohms									
•													
Remarks: <u>DRi</u>	lled		holes	and li	paded	2	ANODE	f	or hol	R. INSTO	1100	<u> </u>	PVC Ve
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FIPE IN	<u>e</u>	ac H	hole.	HVERDG	p hol	e d	epth f	Pf	ROXIN	Nately bi	>`.	APP	KOVIA
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Percapa	1-1	20	' ON ea	ach Var	TPO	-							

Rectifier Size:\_ V Addn'l Depth\_ Depth Credit:\_ 20 Extra Cable:\_\_\_ 460 Ditch & 1 Cable:\_ 25 'Meter Pole:\_ 20' Meter Pole:\_ 10' Stub Pole:\_ Junction Box:

All Construction Completed

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GROUND BED LAYOUT SKETCH

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HOUSE MULTR GJ Bod 20' 20 N ₽260 40 3 Rectifier

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	IDIAN OI	L DAII	Y DRILLING REPOR	r <u>8-</u>	<u>20 19 70</u>
WELL NAME:		WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
Riddle A-	Com	260	N 24	30	9
	WATER AT:	FEET:	HOLE MADE:		
	· · · · · · · · · · · · · · · · · · ·	DESCRIPTION OF			
FROM	то		FORMATION IS	·····	COLOR
Well #1					
0	50'	,	ING (SAND	-GRAVEI)	
50'	70'	shale			
70'	100		S - ATTEMPTE		
HAD TO DR	IL CEMENT	BACK TO BC	o' -B.J. Hug	HES BACK 7	TO SURFACE
WELL #2				·	
0	47'	8" PVC C	ASING (SA	ND - GRAVE	1
<u>49</u> '	70'	shale			
WELL #3					
0	47'	8" PVC CAS	LING (SAND-	GRAVEI)	
47'	65'	shale			
Well #4					
0	47'	8" PVC C	ASING (SAN	10-GRAVEL)	
47'	65'	shale			
Well #5				<u> </u>	_
0	ידיץ '	8" PVC C	ASING (SAN	10-GAAVEL	)
47'	65'	shale		<u> </u>	•
Well #6 -		LE TO CASING	salit due	to esaite	1
WEII #7) 0	45'		SING (SAN		
45'	<del>75</del> 65'	shale	5/11 C 571	<u> </u>	▶
			1.	u /a	Deilleon
(LENNING)	EN ITTE	ANDONED - Cemi	,		*
		up I ANODE	•	•	and RUNNING
BREPACED/RE	completed)	WELL #6 (Los	T DUE TO	GRAVEL)	
		Driller É	Suin 2	. Burge	Tool Dress
ET TWO ANO	DES IN 5	holes		0	
-					
TAL DAYS TO	complete	- 7 days			

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# BURGE CORROSION SYSTEMS, INC.

Page 42 of 92

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

ELL NAME:	(+)+(-)		SECTION:	TOWNSHIP:	RANGE:
idle A -	Com No. 260	<b>2</b> 260	24	30	9
, , ,	WATER AT:	FEET:	HOLE MADE:		
35'		,	/0 <b>2</b> ′ #	/	
FROM		DESCRIPTION OF			COLOR
	ТО		FORMATION IS		
0	18'	Sand	/ clay st	George	e
18'	22'	grave	2/ Sano	L	
22'	30'	gard	- day a	streamer	
30'	<i>fo'</i>	Sand w	ater l	ost aircul	ation
40'	50'	Shale			
50'	97'	Shale /	Bentonite	mix_	
97'	102'	water	1 alas	1 artesia	<u>~</u>
/ *			. /		
			**************************************	······································	· · · · · · · · · · · · · · · · · · ·
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REMARKS:	tried to de	ill with a	in lost	returns	_ altogether
HEMAHKS: -	8" dartis as	min in 12	"/4" Bore h	hole M.	iled with
ud with	4. 63/4 Dr. 00	Betzenty	un tai	and an	WAAD in an
will	V DIT OWER	an und	his & b	Buch	Tool Dresser
		Driller,	man Z. "	Junge	1001 Lifesser

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· ·	CPS	<b>#:</b> 5	ίw	1	WELL I	AME:	P.d.d.	le A	- Con	£26	D 100	ATION	:N24	-30-91	DATE: 8	- 20-90	5		
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	5			185			<u>365</u>						$\frac{1}{2}$			5.3			
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		2.6		235			415			595						·			
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	65	62'	TD D	245			425			605			<b> </b>		]				
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CONSTRUCTION LOGGING READINGS Meridan Oil

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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 Twp 30	Rng O 2
Name of Well/Wells.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	
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	and hour
Depths vent pipes placed: <u>Surface TO 328</u> . Vent pipe perforations: <u>Bottom 210</u> .	<u> 55.77</u>
Remarks:	
OIL COM. D	
Digita a	

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 <sup>3</sup> / bols 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	NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the regulatory determination, the above described waste is: (Check the appropriate classific	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)	azardous waste as defined in 40 CFR, part 261.
□ MSDS Information 🛛 RCRA Hazardous Waste Analysis □ Process Knowledge	ge Dther (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, Gring Constructed, 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
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 Berget)
	ED (Must Be Maintained As Permanent Record) MANAgen DATE: <u>9/13/19</u>
SIGNATURE: TELEPHONE NO.:	
Sufface Waste Management Facility Authonized 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.

<b> REQUEST FOR APPROVAL TO ACCEPT S</b>	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 <sup>3</sup> /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 Service</u> PRINT & SIGN NAME COMPANY 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) (RCRA) and the US Enterprise field Service) (RCRA) (	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	
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)	ous waste as defined in 40 CFR, part 261,
□ 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.	Section 15 of 19.15.36 NMAC. The results
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	-0011
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

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# **ENSOLUM**

	TABLE 1           Pump Canyon Compressor Station           SOIL ANALYTICAL SUMMARY													
Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO) (mg/kg)	Total Combined TPH (GRO/DRO/MRO) (mg/kg)	Chloride (mg/kg)
		Natural Resources ision Closure Crite		10	NE	NE	NE	50				1,000	2,500	10,000
						Composit	e Soil Samples	Removed by Exc	cavation					
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	С	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	С	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	С	4	<0.024	<0.048	<0.048	<0.097	ND	<4.8	13	<47	13	13	<60
Note: Concentrati	ions in <b>bold</b> and	yellow exceed the a	applicable NM	EMNRD Closure	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
<b>Project:</b>	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	3	Result RL Qual Units DF Date Analyzed Batch

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

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 10:37:13 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

Page 2 of 8

**Analytical Report** 

Lab Order 1910A19

Date Reported: 10/23/2019

CLIENT:	ENSOLUM	0	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 P	M 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

Page 3 of 8

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

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

•	
Cli	ent Sample ID: S-4

CLIENT	: ENSOLUM	Client Sample ID: S-4
<b>Project:</b>	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					Analys	t: CAS
Chloride	ND	60	mg/Kg	20	10/18/2019 11:26:33 F	PM 48258
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: BRM
Diesel Range Organics (DRO)	370	9.7	mg/Kg	1	10/21/2019 7:31:23 PM	A 48254
Motor Oil Range Organics (MRO)	310	49	mg/Kg	1	10/21/2019 7:31:23 PM	A 48254
Surr: DNOP	95.2	70-130	%Rec	1	10/21/2019 7:31:23 PM	A 48254
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: 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	A G63849
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.022	mg/Kg	1	10/21/2019 3:27:40 PM	A R63849
Toluene	ND	0.045	mg/Kg	1	10/21/2019 3:27:40 PM	A R63849
Ethylbenzene	ND	0.045	mg/Kg	1	10/21/2019 3:27:40 PM	A R63849
Xylenes, Total	ND	0.089	mg/Kg	1	10/21/2019 3:27:40 PM	A R63849
Surr: 4-Bromofluorobenzene	99.4	80-120	%Rec	1	10/21/2019 3:27:40 PM	A 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 Enviro	nmental Analysis Laboratory, Inc.	23-Oct-19
Client:	ENSOLUM	
Project:	Pump Canyon CS	

Sample ID: MB-48258	SampTy	/pe: <b>mb</b>	lk	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID: PBS	Batch	ID: 482	258	F	RunNo: <b>6</b>	3831				
Prep Date: 10/18/2019	Analysis Da	ate: 10	/18/2019	S	SeqNo: 2	182048	Units: <b>mg/#</b>	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-48258	SampTy	/pe: Ics	i	Tes	tCode: El	PA Method	300.0: Anion	S		
Sample ID: LCS-48258 Client ID: LCSS		/pe: <b>Ics</b> ID: <b>48</b> 2			tCode: El RunNo: 6		300.0: Anion	S		
•		ID: 482		F		3831	<b>300.0: Anion</b> Units: <b>mg/k</b>	-		
Client ID: LCSS	Batch	ID: 482	258 )/18/2019	F	RunNo: 6	3831		-	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	TestC	Code: EPA Method	8015M/D: Diese	el Range	Organics	
Client ID: LCSS	Batch ID:	48254	Ru	inNo: <b>63833</b>				
Prep Date: 10/18/2019	Analysis Date:	10/21/2019	Se	eqNo: <b>2182087</b>	Units: mg/Kg			
Analyte	Result PC	L 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	SampType:	MBLK	TestC	Code: EPA Method	8015M/D: Diese	el Range	Organics	
Client ID: PBS	Batch ID:	48254	Ru	inNo: <b>63833</b>				
Prep Date: 10/18/2019	Analysis Date:	10/21/2019	Se	eqNo: <b>2182088</b>	Units: mg/Kg			
Analyte	Result PC	L 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	SampType:	MBLK	TestC	Code: EPA Method	8015M/D: Diese	el Range	Organics	
Client ID: PBS	Batch ID:	48215	Ru	inNo: <b>63833</b>				
Prep Date: 10/17/2019	Analysis Date:	10/21/2019	Se	eqNo: <b>2182089</b>	Units: %Rec			
Analista			SPK Ref Val			%RPD	RPDLimit	Qual
Analyte	Result PC	L SPK value	SPK Rei Vai	%REC LowLimit	HighLimit	%RFD	REDLIIIII	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

- 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	
al Analysis Laboratory, Inc.		23-Oct-19	

Client:	ENSOLU	Μ									
Project:	Pump Car	nyon CS									
Sample ID:	1910A19-001A MS	SamnT	ype: MS		Tes	Code: EE	PA Method	8015D: Gaso	line Rang	۵	
Client ID:		•	n ID: <b>G6</b>			unNo: 63		00100.0000	inte ritarig	•	
	5-1										
Prep Date:		Analysis D	Date: 10	)/21/2019	S	eqNo: 2	82539	Units: mg/K	g		
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	уре: М	SD	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	S-1	Batch	n ID: <b>G6</b>	3849	R	unNo: 63	3849		_		
Prep Date:		Analysis D	Date: 10	)/21/2019	S	SeqNo: 21	82540	Units: mg/K	g		
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
		0.00				102	77.4	110	Ũ	0	0
Sample ID:	2.5UG GRO LCS		ype: LC		Tes	-		8015D: Gaso	-	-	0
Sample ID: Client ID:		SampT	<sup>-</sup> ype: <b>LC</b> n ID: <b>G6</b>	S		-	PA Method	-	-	-	
		SampT	n ID: <b>G6</b>	S 3849	R	tCode: EF	PA Method 3849	-	line Rang	-	
Client ID:		SampT Batch	n ID: <b>G6</b>	S 3849 0/21/2019	R	tCode: EF	PA Method 3849	8015D: Gaso	line Rang	-	Qual
Client ID: Prep Date: Analyte		SampT Batch Analysis D	n ID: <b>G6</b> Date: <b>10</b>	S 3849 0/21/2019	R	Code: EF RunNo: 63 SeqNo: 21	PA Method 3849 182544	8015D: Gaso Units: mg/K	line Rang	e	
Client ID: Prep Date: Analyte	LCSS	SampT Batch Analysis D Result	n ID: <b>G6</b> Date: <b>1(</b> PQL	S 3849 0/21/2019 SPK value	R S SPK Ref Val	Code: EF RunNo: 63 SeqNo: 21 %REC	PA Method 3849 182544 LowLimit	8015D: Gaso Units: mg/K HighLimit	line Rang	e	
Client ID: Prep Date: Analyte Gasoline Rang	LCSS ge Organics (GRO)	SampT Batch Analysis D Result 25 1200	n ID: <b>G6</b> Date: <b>1(</b> PQL	<b>S</b> <b>3849</b> <b>0/21/2019</b> SPK value 25.00 1000	R S SPK Ref Val 0	tCode: EF tunNo: 6 SeqNo: 24 %REC 98.9 117	PA Method 8849 182544 LowLimit 80 77.4	8015D: Gaso Units: mg/K HighLimit 120	line Rang g %RPD	e RPDLimit	
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	LCSS ge Organics (GRO) RB	SampT Batch Analysis D Result 25 1200 SampT	Date: 10 PQL 5.0	S S S S S PK value 25.00 1000 BLK	R S SPK Ref Val 0 Test	tCode: EF tunNo: 6 SeqNo: 24 %REC 98.9 117	PA Method 3849 182544 LowLimit 80 77.4 PA Method	8015D: Gaso Units: mg/K HighLimit 120 118	line Rang g %RPD	e RPDLimit	
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID:	LCSS ge Organics (GRO) RB	SampT Batch Analysis D Result 25 1200 SampT	Date: 10 PQL 5.0 Type: ME	S 3849 0/21/2019 SPK value 25.00 1000 BLK 3849	R S SPK Ref Val 0 Tesi R	tCode: EF RunNo: 63 BeqNo: 24 %REC 98.9 117 tCode: EF	PA Method 3849 182544 LowLimit 80 77.4 PA Method 3849	8015D: Gaso Units: mg/K HighLimit 120 118	line Rang g %RPD line Rang	e RPDLimit	
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID:	LCSS ge Organics (GRO) RB	SampT Batch Analysis D Result 25 1200 SampT Batch	Date: 10 PQL 5.0 Type: ME	25.00 25.00 1000 3LK 23849 0/21/2019	R S SPK Ref Val 0 Tesi R	Code: EF RunNo: 6 GeqNo: 24 %REC 98.9 117 Code: EF RunNo: 6 GeqNo: 24	PA Method 3849 182544 LowLimit 80 77.4 PA Method 3849	8015D: Gaso Units: mg/K HighLimit 120 118 8015D: Gaso	line Rang g %RPD line Rang	e RPDLimit	
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	LCSS ge Organics (GRO) RB	SampT Batch Analysis D Result 25 1200 SampT Batch Analysis D	Date: 10 PQL 5.0 Type: ME Date: 10 Date: 10	25.00 25.00 1000 3LK 23849 0/21/2019	R SPK Ref Val 0 Tesi R S	Code: EF RunNo: 6 GeqNo: 24 %REC 98.9 117 Code: EF RunNo: 6 GeqNo: 24	PA Method 3849 182544 LowLimit 80 77.4 PA Method 3849 182545	8015D: Gaso Units: mg/K HighLimit 120 118 8015D: Gaso Units: mg/K	line Rang 9 %RPD line Rang	e RPDLimit e	Qual

#### 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

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

WO#:	1910A19

WO#:	<b>1910A</b>
	22 Oct 1

23-Oct-19	,
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Client: Project:	ENSOLU Pump Can										
v	00NG BTEX LCS	-	Гуре: <b>LC</b>	s	Tos	tCode: El	PA Method	8021B: Volat	tilos		
Client ID: L			h ID: <b>R6</b>						liles		
						RunNo: 6			-		
Prep Date:		Analysis E	Date: 10	/21/2019	2	SeqNo: 2	182821	Units: mg/k	(g		
Analyte		Result	PQL		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-Bromofl	luorobenzene	1.1		1.000		107	80	120			
Sample ID: 19	910A19-002A MS	SampT	Гуре: МS	;	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: S	-2	Batc	h ID: <b>R6</b>	3849	F	RunNo: <b>6</b>	3849				
Prep Date:		Analysis E	Date: 10	/21/2019	S	SeqNo: 2	182828	Units: mg/k	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-Bromofl	luorobenzene	0.79		0.7716		102	80	120			
						-					
	910A19-002A MSI		Гуре: МS	SD	Tes			8021B: Volat	tiles		
		<b>D</b> Samp1	Гуре: <b>МS</b> h ID: <b>R6</b>				PA Method	8021B: Vola	tiles		
Sample ID: 19	<b>-2</b>	<b>D</b> Samp1	h ID: R6	3849	F	tCode: El	PA Method 3849	8021B: Volat			
Sample ID: 19 Client ID: 5 Prep Date:	<b>-2</b>	D SampT Batcl	h ID: R6	3849 )/21/2019	F	tCode: El RunNo: 6	PA Method 3849			RPDLimit	Qual
Sample ID: 19 Client ID: 5 Prep Date: Analyte	<b>-2</b>	D SampT Batcl Analysis [	h ID: <b>R6</b> Date: <b>10</b>	3849 )/21/2019	F	tCode: El RunNo: 6 SeqNo: 2	PA Method 3849 182829	Units: mg/k	ζg	RPDLimit 20	Qual
Sample ID: 19 Client ID: S Prep Date: Analyte Benzene	<b>-2</b>	D SampT Batcl Analysis E Result	h ID: <b>R6</b> Date: <b>10</b> PQL	3849 )/21/2019 SPK value	F S SPK Ref Val	tCode: El RunNo: 6 SeqNo: 2 %REC	PA Method 3849 182829 LowLimit	Units: <b>mg/k</b> HighLimit	<b>(g</b> %RPD		Qual
Sample ID: 19 Client ID: <b>S</b> Prep Date: Analyte Benzene Toluene	<b>-2</b>	D Samp1 Batcl Analysis I Result 0.65	h ID: <b>R6</b> Date: <b>10</b> <u>PQL</u> 0.019	<b>3849</b> //21/2019 SPK value 0.7716	F SPK Ref Val 0.008287	tCode: El RunNo: 6 SeqNo: 2 %REC 83.7	PA Method 3849 182829 LowLimit 76	Units: <b>mg/k</b> HighLimit 123	<b>(g</b> %RPD 5.62	20	Qual
Sample ID: 19 Client ID: <b>S</b> Prep Date: Analyte Benzene Toluene Ethylbenzene	<b>-2</b>	D SampT Batcl Analysis E Result 0.65 0.68	h ID: <b>R6</b> Date: <b>10</b> <u>PQL</u> 0.019 0.039	3849 //21/2019 SPK value 0.7716 0.7716	F SPK Ref Val 0.008287 0.007446	tCode: El RunNo: 6 SeqNo: 2 %REC 83.7 87.2	PA Method 3849 182829 LowLimit 76 80.3	Units: <b>mg/K</b> HighLimit 123 127	<b>%</b> RPD 5.62 6.24	20 20	Qual
Sample ID: 19 Client ID: <b>S</b> Prep Date: Analyte Benzene Toluene Ethylbenzene	-2	D Samp1 Batcl Analysis I Result 0.65 0.68 0.68	h ID: <b>R6</b> Date: <b>10</b> <u>PQL</u> 0.019 0.039 0.039	3849 /21/2019 SPK value 0.7716 0.7716 0.7716	F SPK Ref Val 0.008287 0.007446 0.01192	tCode: El RunNo: 6 SeqNo: 2 %REC 83.7 87.2 86.6	PA Method 3849 182829 LowLimit 76 80.3 80.2	Units: <b>mg/k</b> HighLimit 123 127 131	<b>(g</b> %RPD 5.62 6.24 6.26	20 20 20	Qual
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Sample ID: 19 Client ID: S Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofi Sample ID: R Client ID: P Prep Date: Analyte Benzene	luorobenzene B BS	D Samp1 Batcl Analysis E Result 0.65 0.68 0.68 2.0 0.79 Samp1 Batcl Analysis E Result	h ID: <b>R6</b> Date: <b>10</b> 0.019 0.039 0.039 0.039 0.077 Fype: <b>ME</b> h ID: <b>R6</b> Date: <b>10</b>	3849 2771/2019 SPK value 0.7716 0.7716 2.315 0.7716 3.315 0.7716 3.45 0.7716 3.45 0.7716 3.45 0.7716 3.45 0.7716 3.45 0.7716 3.45 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716	F SPK Ref Val 0.008287 0.007446 0.01192 0.02592 Tes F	tCode: El RunNo: 6 SeqNo: 2 %REC 83.7 87.2 86.6 85.4 102 tCode: El RunNo: 6 SeqNo: 2	PA Method 3849 182829 LowLimit 76 80.3 80.2 78 80 PA Method 3849 182832	Units: mg/k HighLimit 123 127 131 133 120 8021B: Volat Units: mg/k	(g) 5.62 6.24 6.26 5.73 0 tiles	20 20 20 20 0	
Sample ID: 19 Client ID: S Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofi Sample ID: R Client ID: P Prep Date:	luorobenzene B BS	D Samp1 Batcl Analysis E Result 0.65 0.68 0.68 2.0 0.79 Samp1 Batcl Analysis E Result ND	h ID: <b>R6</b> Date: <b>10</b> 0.019 0.039 0.039 0.077 Type: <b>ME</b> h ID: <b>R6</b> Date: <b>10</b> PQL 0.025	3849 2771/2019 SPK value 0.7716 0.7716 2.315 0.7716 3.315 0.7716 3.45 0.7716 3.45 0.7716 3.45 0.7716 3.45 0.7716 3.45 0.7716 3.45 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716	F SPK Ref Val 0.008287 0.007446 0.01192 0.02592 Tes F	tCode: El RunNo: 6 SeqNo: 2 %REC 83.7 87.2 86.6 85.4 102 tCode: El RunNo: 6 SeqNo: 2	PA Method 3849 182829 LowLimit 76 80.3 80.2 78 80 PA Method 3849 182832	Units: mg/k HighLimit 123 127 131 133 120 8021B: Volat Units: mg/k	(g) 5.62 6.24 6.26 5.73 0 tiles	20 20 20 20 0	
Sample ID: 19 Client ID: <b>S</b> Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofil Sample ID: <b>R</b> Client ID: <b>P</b> Prep Date: Analyte Benzene Toluene	luorobenzene B BS	D Samp1 Batcl Analysis I Result 0.65 0.68 0.68 2.0 0.79 Samp1 Batcl Analysis I Result ND ND	h ID: R6 Date: 10 PQL 0.019 0.039 0.039 0.077 Type: ME h ID: R6 Date: 10 PQL 0.025 0.050	3849 2771/2019 SPK value 0.7716 0.7716 2.315 0.7716 3.315 0.7716 3.45 0.7716 3.45 0.7716 3.45 0.7716 3.45 0.7716 3.45 0.7716 3.45 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716 0.7716	F SPK Ref Val 0.008287 0.007446 0.01192 0.02592 Tes F	tCode: El RunNo: 6 SeqNo: 2 %REC 83.7 87.2 86.6 85.4 102 tCode: El RunNo: 6 SeqNo: 2	PA Method 3849 182829 LowLimit 76 80.3 80.2 78 80 PA Method 3849 182832	Units: mg/k HighLimit 123 127 131 133 120 8021B: Volat Units: mg/k	(g) 5.62 6.24 6.26 5.73 0 tiles	20 20 20 20 0	

#### **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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ANALYSIS	Albuq	4901 Haw uerque, NM		ample	e Log-In Cl	neck List
LABORATORY	TEL: 505-345-3975 F Website: www.hall	AX: 505-34	45-4107	ampic		
Client Name: ENSOLUM AZTEC	Work Order Number:	1910A19			RcptNo:	1
Received By: Erin Melendrez 10	0/18/2019 8:05:00 AM		UL M	4		
Completed By: Erin Melendrez 10 Reviewed By: $O \sim 10/18/10$	0/18/2019 8:26:50 AM 7		UL U	4		
Chain of Custody						
1. Is Chain of Custody complete?		Yes 🗹	No [	1	Not Present	
2. How was the sample delivered?		Courier				
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No [			
			110			
4. Were all samples received at a temperature of a	>0° C to 6.0°C	Yes 🗹	No [			
5. Sample(s) in proper container(s)?	;	Yes 🗸	No [			
6. Sufficient sample volume for indicated test(s)?	N	res 🗹	No			
$7_{\cdot}$ Are samples (except VOA and ONG) properly pr	eserved?	res 🗸	No 🗌			
8. Was preservative added to bottles?	N	(es 🗌	No No		NA 🗌	
9. VOA vials have zero headspace?	N	res	No [	No	VOA Vials 🗹	
10. Were any sample containers received broken?		Yes 🗌	No	# o	f preserved tles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	y	res 🗹	No [		pH:	+12 unless noted)
12. Are matrices correctly identified on Chain of Cus	tody?	res 🗸	No		Adjusted?	
13. Is it clear what analyses were requested?	N	res 🗹	No			
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Ň	res 🗹	No [		Checked by: D	AD 10/18/19
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this	order?	Yes 🗌	No [		NA 🗹	
Person Notified:	Date:		und acconication activity and a por	esonari,		
By Whom:	Via:	eMail	Phone	Fax 🗍 I	n Person	
Regarding:	an a			ANALY CONTRACTOR	annanananan maasaalaraana.	
Client Instructions:				and the call and the court	ningia apartakan tina matanan p	
16. Additional remarks:						
17. Cooler Information						
Cooler No Temp °C Condition Seal	ntact Seal No Se	al Date	Signed B	y		
and the second	ntact Seal No Se	al Date	Signed B	y		

Page 1 of 1

Client:  Mailing	Enso Address	ium 12	5 Rio Grande Suitet	Turn-Around Time:					HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request											Received by OCD: 11/5/2020	
email or Fax#: KSummers ensolum.com         QA/QC Package:         □ Standard         □ Standard         □ NELAP				Project Manager: Kswmmers Sampler: CD'Aponti					TPH (Gas only)	/ DRO / MRO)	3.1)	04.1) 8270 CIMCV	(200	<b>2</b>	8082 PCB's						Air Bubbles (Y or N) WV 95:87:01 0
Date		Matrix	Sample Request ID	On Ice: Sample Temp Container Type and #	₩ Yes perature: 2 . 9 Preservative Type	н	CD=2.4°C EAL NO.	BTEX + MTBE + TMB's	BTEX + MTBE +	TPH 8015B (GRO	(Method	EUB (Method 504. PAH's /8310 or 82	sle	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	CNIOrides			Air Bubbles (Y or
10/17/19	1000	S	3-1	1× Yoz Jur	6001	-001		×		$\times$								×			
10/17/19	1005	5	5-2	1 x YozJur	(001	-002	and the second	×		$\times$								×			
10/17/19	1010	5	S-3	1x Yoz Jar	coul	-003	)	X		X								×			
10/17/19	1015	5	5-4	1x Yoz Jar	(001	-000		X		*								×			
Date: $ \psi _{17}/19$ Date: $ \psi _{17}/19$	1110 Time: 1820	Relinquishe	had	Received by: Must Received by:	Walt	Date 19/17 Date	19 110 Time 19		narks			PM1 Pay									Fage 09 of



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 48509
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/31/2019 10:59:26 AM 48508
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/31/2019 10:59:26 AM 48508
Surr: DNOP	93.3	70-130	%Rec	1	10/31/2019 10:59:26 AM 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:	ENSOLUI Pump Can										
Sample ID: MB			ype: <b>mb</b>			tCode: EF		300.0: Anion	s		
Prep Date: 10	/31/2019	Analysis D	ate: 10	)/31/2019	S	SeqNo: 21	95081	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	6-48509	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: LCS	SS	Batch	n ID: <b>48</b>	509	F	RunNo: <b>6</b> 4	117				
Prep Date: 10	/31/2019	Analysis D	ate: 10	)/31/2019	9 SeqNo: 2195082 Units: mg/Kg						
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:

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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- 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	Tes	Code: EF	PA Method	8015M/D: Die	esel Rang	e 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	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	4.0		5.000		80.6	70	130			
Sample ID: <b>MB-48508</b>	SampT	ype: ME	BLK	Tes	Code: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	1D: 48	508	F	unNo: 64	4116				
Prep Date: 10/31/2019	Analysis D	ate: 10	0/31/2019	S	eqNo: 2	194223	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	8.9		10.00		88.6	70	130			
Sample ID: 1910F58-001AMS	SampT	ype: <b>M</b>	6	Tes	Code: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: S-5	Batch	n ID: 48	508	F	unNo: 64	4116				
Prep Date: 10/31/2019	Analysis D	ate: 10	0/31/2019	S	eqNo: 2	195324	Units: mg/K	g		
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: 1910F58-001AMSI	<b>)</b> SampT	ype: <b>M</b>	SD	Tes	Code: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: S-5		n ID: 48	508	F	unNo: 64	4116		-	-	
Prep Date: 10/31/2019	Analysis D	ate: 10	0/31/2019	S	eqNo: 2	195325	Units: mg/K	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

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client: ENS	OLUM									
Project: Pump	p Canyon CS									
Sample ID: MB-48491	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batcl	h ID: <b>48</b>	491	F	RunNo: 6	4127				
Prep Date: 10/30/2019	Analysis E	Date: 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	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batcl	h ID: 48	491	F	RunNo: 6	4127				
Prep Date: 10/30/2019	Analysis E	Date: 10	)/31/2019	5	SeqNo: 2	194629	Units: <b>mg/K</b>	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#:	1910F58
	0 / 17 10

04-Nov-19

Client: ENSO Project: Pump (	LUM Canyon CS									
Sample ID: MB-48491	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8021B: Vola	iles		
Client ID: PBS	Batc	h ID: 484	491	F	RunNo: 64	4127				
Prep Date: 10/30/2019	Analysis E	Date: 10	)/31/2019	S	SeqNo: 2	194655	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-Bromofluorobenzene	1.1		1.000		108	80	120			
Sample ID: LCS-48491	SampT	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 484	491	F	RunNo: 64	4127				
Prep Date: 10/30/2019	Analysis E	Date: 10	)/31/2019	S	SeqNo: 2	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-Bromofluorobenzene	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
- 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 5

ANAL	ONMENT		TE	ll Environme EL: 505-345 Website: ww	490 Albuquero 3975 FAX:	01 Hawi que, NM 505-34	kins NE 187109 15-4107	Sar	Page 76
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			2019 8:33:0	5 AM		Lash	Bae	a
Reviewed By:	Dm 10	0/31/10	1				Fair	70	
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 o	cool the samp	les?		Yes	$\checkmark$	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 preserval	tive added to	bottles?			Yes		No	$\checkmark$	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									(<2 or >12 unless noted)
12. Are matrices c						$\checkmark$	No		Adjusted?
13. Is it clear what			?		Yes				
14. Were all holdir (If no, notify cu					Yes	$\checkmark$	No		Checked by: DAD (0/31/19
Special Handli	ng (if app	olicable)							
15. Was client not	tified of all d	iscrepancies v	with this order	?	Yes		No		NA 🔽
Person	Notified:	[		Date	-			ana	
By Who	m:	Γ		Via:	eM	ail 🗌	Phone	] Fax	In Person
Regardi	ng:	[							
Client In	structions:	[							
16. Additional rer	narks:								
17. <u>Cooler Inform</u>	and the second sec			a statistica estatistica e a					
Cooler No	Temp °C 0.2	Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву	
1 2	0.2	Good	Yes						

Page 1 of 1

Client:	Addres	s: 1000	ustody Record m S Rio Grande 7410	Turn-Around □ Standard Project Nam Project #:	I Time: d Ø Rush e: mp Cary	Same Day H=2+190				A	WWW ins N	<b>AL</b> w.ha NE - 975	Ilenv Alb	ironi ouqua	<b>5 L</b> ment erqu 505-	AB tal.cc	<b>BOR</b> om VI 8710 4107	<b>EN</b> <b>RAT</b>	
QA/QC QA/QC Star Accred NEL EDD	r Fax#: Package idard itation: AC (Type)	Az Cu     Othe		Sampler: On Ice: # of Coolers: Cooler Temp Container	Commers CoApant PYes Clincluding CF): C Preservative	D.2-0=0.2 D.1-0=0.1 HEAL No.	BTEX / MTBE / TIMB's (8021)	TPH:8015D(GR0 / DR0 / MR0)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CI, F, Br, NO3, NO2, PO4, SO4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)			
	Time 530	Matrix S	Sample Name	Type and #		1910E58 -001													
Date: 13 Date: 14 16	Time:  622 Time:  §	Relinquist	ant	Received by: Received by: Received by:	Via: Ubet Via: (uvv.;er	10/31/19 8:00										00			

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		Cl	ient Sample II	D: HA	A-1 @ 4'	
Project: Pump Canyon CS		(	Collection Dat	<b>e:</b> 11	/1/2019 9:30:00 AM	
Lab ID: 1911048-001	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 11.	/2/2019 9:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	11/5/2019 5:54:11 PM	48597
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	9.8	9.8	mg/Kg	1	11/6/2019 12:21:28 PM	48589
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/6/2019 12:21:28 PN	48589
Surr: DNOP	100	70-130	%Rec	1	11/6/2019 12:21:28 PN	48589
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/5/2019 1:32:03 PM	48579
Surr: BFB	89.7	77.4-118	%Rec	1	11/5/2019 1:32:03 PM	48579
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	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
Ethylbenzene	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		Cl	ient Sample II	<b>):</b> HA	A-2 @ 4'	
<b>Project:</b> Pump Canyon CS		(	Collection Date	e: 11	/1/2019 9:35:00 AM	
Lab ID: 1911048-002	Matrix: SOIL		Received Date	e: 11.	/2/2019 9:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	11/5/2019 6:55:55 PM	48597
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	13	9.3	mg/Kg	1	11/6/2019 12:43:15 PM	48589
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/6/2019 12:43:15 PM	48589
Surr: DNOP	98.0	70-130	%Rec	1	11/6/2019 12:43:15 PM	48589
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/5/2019 3:05:54 PM	48579
Surr: BFB	93.4	77.4-118	%Rec	1	11/5/2019 3:05:54 PM	48579
EPA METHOD 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
Ethylbenzene	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-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: Project:	ENSOL Pump Ca	UM anyon CS									
Sample ID: MB-48	3597	SampT	ype: <b>ml</b>	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PBS		Batch	n ID: 48	597	F	RunNo: 6	4258				
Prep Date: 11/5/	2019	Analysis D	ate: 1	1/5/2019	S	SeqNo: 2	199039	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-4	8597	SampT	ype: Ics	6	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSS		Batch	n ID: 48	597	F	RunNo: 6	4258				

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	. Released	to 1	Imaging:	5/18/2022 3:04:3	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 C	anyon CS									
Sample ID: LCS-48589	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	D: 48	589	F	RunNo: 6	4266				
Prep Date: 11/5/2019	Analysis D	ate: 11	/6/2019	S	SeqNo: 2	199440	Units: <b>mg/H</b>	٢g		
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: <b>MB-48589</b>	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Sample ID: MB-48589 Client ID: PBS		ype: <b>ME</b> 1D: <b>48</b>			tCode: El RunNo: 6		8015M/D: Di	esel Range	e Organics	
		D: 48	589	F		4266	8015M/D: Die Units: mg/H		e Organics	
Client ID: PBS	Batch	D: 48	589 1/6/2019	F	RunNo: 6	4266			e Organics RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>11/5/2019</b>	Batch Analysis D	n ID: <b>48</b> ate: <b>1</b> 1	589 1/6/2019	F	RunNo: <b>6</b> SeqNo: <b>2</b>	4266 199442	Units: <b>mg/k</b>	(g	-	Qual
Client ID: PBS Prep Date: 11/5/2019 Analyte	Batch Analysis D Result	n ID: 48 ate: 11 PQL	589 1/6/2019	F	RunNo: <b>6</b> SeqNo: <b>2</b>	4266 199442	Units: <b>mg/k</b>	(g	-	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

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	ENSOLUM									
Project:	Pump Canyon CS									
Sample ID: MB-48	579 Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Bate	ch ID: 48	579	F	RunNo: 6	4244				
Prep Date: 11/4/2	2019 Analysis	Date: 11	1/5/2019	S	SeqNo: 2	198527	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	s (GRO) ND	5.0								
Surr: BFB	1000		1000		103	77.4	118			
Sample ID: LCS-48	3579 Samp	Type: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Bate	ch ID: 48	579	F	RunNo: 6	4244				
Prep Date: 11/4/2	2019 Analysis	Date: 11	1/5/2019	S	SeqNo: 2	198528	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	s (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: ENSO Project: Pump	LUM Canyon CS									
Sample ID: MB-48579	Samp	Гуре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: 48	579	F	RunNo: 6	4244				
Prep Date: 11/4/2019	Analysis [	Date: 11	1/5/2019	S	SeqNo: 2	198574	Units: <b>mg/K</b>	(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-Bromofluorobenzene	1.1		1.000		106	80	120			
Sample ID: LCS-48579	Samp	Гуре: <b>LC</b>	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: <b>48</b>	579	F	RunNo: 6	4244				
Prep Date: 11/4/2019	Analysis [	Date: 11	1/5/2019	SeqNo: 2198575 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	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			

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				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 List					
Client Name	ENSOLUN	AZTEC	Work	Order Nur	mber: <b>191</b>	1048			RcptNo: 1					
Received By	y: Erin Mele	ndrez	11/2/20	19 9:50:00	) AM		Ú	MA						
Completed B Reviewed By		ndrez b J 4/19		19 10:48:3	30 AM		Ű	MA						
Chain of C	ustody													
1. Is Chain o	of Custody comp	lete?			Yes	$\checkmark$	N	•	Not Present					
2. How was t	the sample deliv	vered?			Cou	rier								
<u>Log In</u>														
	tempt made to d	cool the sam	ples?		Yes	$\checkmark$	N	<b>b</b>						
4. Were all sa	amples received	at a tempera	ature of >0° C	to 6.0°C	Yes	$\checkmark$	N		NA 🗌					
5. Sample(s)	in proper conta	iner(s)?			Yes		No	<b>b</b>						
6. Sufficient s	ample volume f	or indicated t	est(s)?		Yes		No							
	es (except VOA			ed?	Yes									
	rvative added to				Yes		No	$\checkmark$	NA 🗌					
Q VOA viele I						_								
	have zero heads				Yes				No VOA Vials 🗹					
TO, were any s	sample containe	ers received t	proken?		Yes		No		# of preserved					
11. Does paper	rwork match bot	tle labels?			Yes	~	No		bottles checked for pH:					
	epancies on cha		()						(<2 or >12 unles	s noted)				
12. Are matrice	es correctly iden	tified on Cha	in of Custody?		Yes	$\checkmark$	No		Adjusted?					
13. Is it clear w	hat analyses we	ere requested	1?		Yes	$\checkmark$	No							
	olding times able				Yes	$\checkmark$	No		Checked by: DAD II	14/19				
(If no, notify	y customer for a	uthorization.)	)						1					
Special Han	dling (if app	licable)												
15. Was client	notified of all di	screpancies	with this order?		Yes		No		NA 🗹					
Pers	on Notified:	and a constant of the second secon	anticipating an estimation of the statement	Date	- T			and some of						
	Vhom:			Via:	∼µ ∏eMa	il 🗆	Phone [	] Eav	In Person					
	arding:			vid.										
	nt Instructions:				and the second second									
16. Additional														
17. <u>Cooler Inf</u>														
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	lf necessary,	samples sul	omitted to Hall Environmental may be subo	contracted to other a	ccredited laboratorie	es. This serves as notice of the	is possil	oility. A	Any su	o-contr	acted	data v	vill be	clearly	notat	e <mark>d</mark> on th	ie analyti	cal report		



# APPENDIX G

**Regulatory Correspondence** 

From:	Smith, Cory, EMNRD
То:	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.jpg

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) <u>tjlong@eprod.com</u>



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) tjlong@eprod.com

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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:
	IC-1411 Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition 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