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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
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)*: **NCE2003756681**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.91648** Longitude **-107.69875** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Oxnard #334S Pipeline**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **01/17/2020**	Serial Number *(if applicable)*: **NM 108646**

Unit Letter	Section	Township	Range	County
C	**8**	**31N**	**8W**	**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)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls): **3-5 BBLs**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **4 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release On January 17, 2020, Enterprise discovered a natural gas release on the Oxnard #334S pipeline. No fluids were released to the ground surface. The pipeline was blown down, depressurized, locked out and tagged out. The release is located in an ephemeral wash (a blue line on a USGS Topo Map). Remediation was completed on February 14, 2020. The final excavation dimensions measured approximately 35 feet long by 11 feet wide by approximately 11.5 feet deep. Approximately 6 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party closure report is included with this "Final." C-141.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jon E. Fields Title: Director, Environmental

Signature: Jon E. Fields Date: 9/14/2020

email: jefields@eprod.com Telephone: (713) 381-6684

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 05/16/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

ENSOLUM

CLOSURE REPORT

Property:

Oxnard #334S Pipeline Release
NW ¼, S8 T31N R8W
San Juan County, New Mexico

June 12, 2020
Ensolum Project No. 05A1226093

Prepared for:

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

Prepared by:

Ranee Deechilly
Environmental Scientist

Kyle Summers, CPG
Sr. Project Manager

Table of Contents

LIST OF APPENDICES

ENSOLUM

CLOSURE REPORT

Oxnard #334S Pipeline Release
NW ¼, S8 T31N R8W
San Juan County, New Mexico

Ensolum Project No. 05A1226093

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Oxnard #334S Pipeline Release (Site)
Location:	36.91648° North, 107.69875° West Northwest (NW) ¼ of Section 8, Township 31 North, Range 8 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 January 17, 2020, Enterprise personnel identified a release of natural gas on the Oxnard #334S pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On February 7, 2020, 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. 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.

- 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 and includes an interactive map). No PODs were identified within a one-mile radius of the Site using the Universal Transverse Mercator (UTM) radius search in the OSE WRRS database.

Conversely, the POD Section, Township, and Range search identified a POD (SJ-04103-POD1) in the same Section as the Site. However, the online interactive map indicates that this POD is actually adjacent to the Animas River, north of Aztec, NM. Based on the New Mexico State Plane (NAD 83) x and y coordinates (in feet) identified in the well record document, the well is actually located in Section 8, Township 31 North, Range 10 West (adjacent to the Animas River as indicated on the GIS database map). Ensolum notified the OSE of the discrepancy. No depth to water is listed for SJ-04103-POD1, but the total depth of the well is 26 feet. Supporting documentation is provided in **Appendix B**.

- Six (6) cathodic protection wells were identified within one mile of the Site. The records for the cathodic protection wells located near the Blanco #8 MV (Unit N, Sec 5 T31N R8W), Oxnard #1A (Unit C, Sec 8 T31N R8W), Blanco #330 (Unit N, Sec 5 T31N R8W), Oxnard #333 and Oxnard #3 (Unit H, Sec 8 T31N R8W)), Oxnard #3A (Unit P, Sec 8 T31N R8W), and 32-8 221A (Unit E, Sec 9 T31N R8W) oil/gas production wells indicate water depths ranging from 60 feet below grade surface (bgs) to 300 feet bgs. The record for the closest cathodic protection well (Oxnard #1A) indicates a depth to water of 300 feet bgs, at approximately 0.1 miles from the Site. Supporting documentation is provided in **Appendix B**.

- The Site is located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or significant watercourse. The excavation is located immediately adjacent to an unnamed ephemeral wash.

- 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 New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.

- The Site is not located within 300 feet of a wetland.

- Based on information identified in the New Mexico Mining and Minerals Division's Geographic Information System (GIS), Maps and Mine Data database, the Site is not located in 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.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release		
Constituent	Method	Limit
Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015	100 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 February 7, 2020, Enterprise initiated activities to remediate petroleum hydrocarbon impact. During the remediation and corrective action activities, West States Energy Contractors, Inc. provided heavy equipment and labor support while Ensolum provided environmental consulting support.

The final excavation measured approximately 35 feet long and 11 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 11.5 feet bgs.

The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand underlain by sandstone.

A total of approximately six (6) cubic yards of petroleum hydrocarbon affected soils and 10 barrels (bbls) of hydro-excavation soil cuttings and water related to the excavation were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with a combination of imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils and then contoured to surrounding grade.

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

4.0 SOIL SAMPLING PROGRAM

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

Ensolum's soil sampling program included the collection of nine (9) composite soil samples (S-1 through S-9) comprised of five (5) aliquots each, from the excavation for laboratory analysis. In addition, three (3) composite stockpiled soil samples (SP-1 through SP-3) were collected from the soils that were segregated for potential reuse, to confirm the material was suitable to remain on Site. A clean shovel was utilized to obtain fresh aliquots from each area of the excavation. 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 event.

First Sampling Event
On February 7, 2020, composite soil samples S-1 (0'-10') and S-2 (0'-10') were collected from the end-walls of the excavation prior to extending the excavation to accommodate pipeline repairs.

Second Sampling Event
On February 10, 2020, a second sampling event was performed at the site. Composite soil samples S-3 (10') and S-4 (10') were collected from the floor of the excavation. Composite soil samples S-5 (0'-10'), S-6 (0'-10'), S-7 (0'-7'), and S-8 (0'-7') were collected from the sidewalls of the excavation. Subsequent analytical results identified data exceedances above the applicable New Mexico EMNRD OCD closure criteria for composite soil sample S-3. In response to the data exceedance, the excavation was deepened in the vicinity of composite soil sample S-3. The soil associated with composite sample S-3 was transported from the Site to the landfarm for disposal/remediation.

Third Sampling Event
Subsequent to deepening the excavation, a third sampling event was performed on February 14, 2020. Composite soil sample S-9 (11.5') was collected from the floor of the excavation to replace composite soil sample S-3 that had exhibited TPH concentrations above the applicable New Mexico EMNRD OCD closure criteria.

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 #8021/8260, 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 laboratory data sheets and executed chain-of-custody forms 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-1, S-2, S-4 through S-9, and SP-1 through SP-3) to the applicable New Mexico EMNRD OCD closure criteria. Soil associated with composite sample S-3 was transported to Envirotech landfarm for disposal/remediation and is 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 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 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/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg for chlorides.

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

7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with a combination of imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils and was then contoured to match the surrounding grade. Enterprise will re-seed the Site with a BLM Farmington Field Office approved seeding mixture.

8.0 FINDINGS AND RECOMMENDATION

- A total of nine (9) composite soil samples were collected from the excavation. In addition, three (3) composite soil samples were collected from stockpiled soils for laboratory analyses. Based on laboratory analytical results, the soils remaining in place at the Site do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.

- A total of approximately six (6) cubic yards of petroleum hydrocarbon affected soils and 10 bbls of hydro-excavation soil cuttings and water related to the excavation were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with imported fill and was then contoured to surrounding grade.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

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.

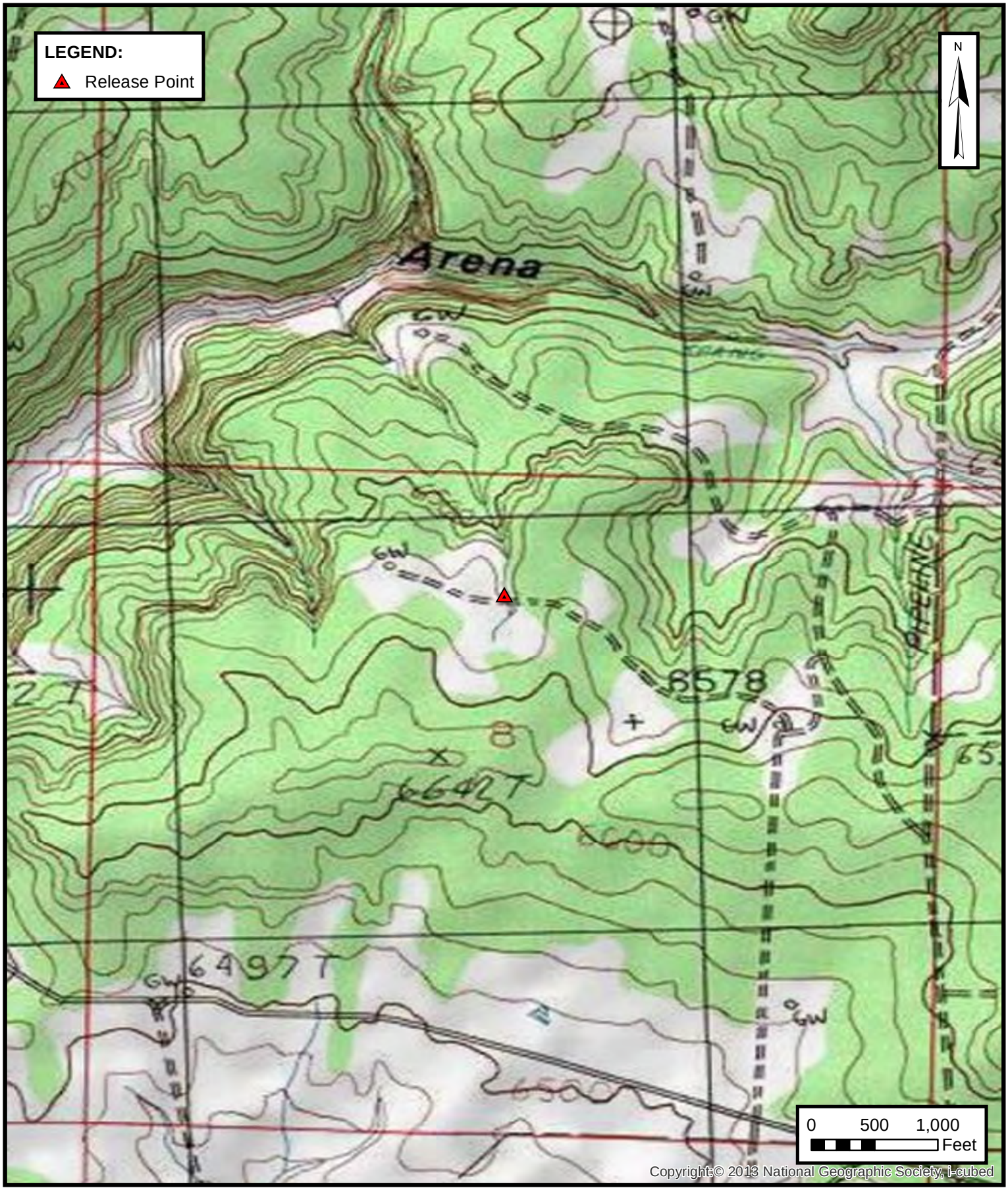
9.3 Reliance

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.

ENSOLUM

APPENDIX A

Figures



ENSOLUM

Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
OXNARD #334S PIPELINE RELEASE
NW ¼, S8 T31N R8W, San Juan County, New Mexico
36.91648° N, 107.69875° W
Ensolum Project No.: 05A1226093

FIGURE
1

ENSOLUM

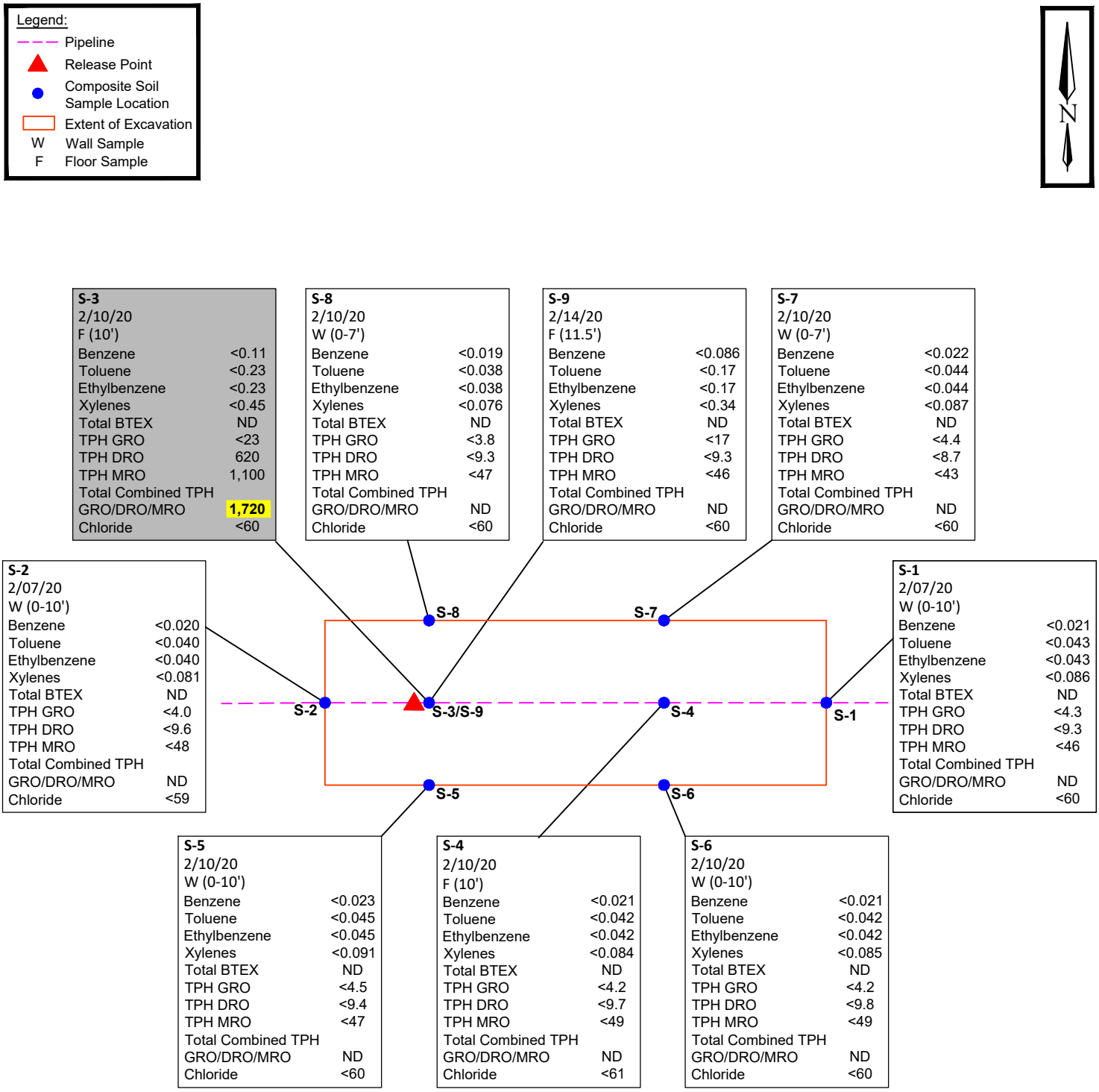
Environmental & Hydrogeologic Consultants

SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
OXNARD #334S PIPELINE RELEASE
NW ¼, S8 T31N R8W, San Juan County, New Mexico
36.91648° N, 107.69875° W

Ensolum Project No.: 05A1226093

FIGURE
2



Notes:
All Concentrations Are Listed in mg/Kg.
Concentrations in Yellow Exceed the Applicable NM EMNRD OCD Closure Criteria.
All Depths Are Listed in Feet BGS.
Analytical Callout in Gray Denote Sampling Location Removed By Excavation.

ENSOLUM
Environmental & Hydrogeologic Consultants

SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC.
OXNARD #334S PIPELINE RELEASE
NW ¼, S8 T31N R8W, San Juan County, New Mexico
36.91648° N, 107.69875°W

Ensolum Project No.: 05A1226093

FIGURE
3

ENSOLUM

APPENDIX B

Siting Documentation

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)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 04103 POD1	SJAR	SJ	4	1	3	08	31N	08W	240607	4088952	26		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

PLSS Search:

Section(s): 8, 4, 5, 6, 7, 18, 17, 16, 9 **Township:** 31N **Range:** 08W

File No. SJ-4103 POD 1

NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, OR 72-12-1.3 NEW MEXICO STATUTES

For fees, see State Engineer website: http://www.ose.state.nm.us/

STATE ENGINEER OFFICE AZTEC, NEW MEXICO 2014 JUL 29 PM 3:52

1. APPLICANT(S)

Name: **Ron Hager**	Name:
Contact or Agent: check here if Agent ☐	Contact or Agent: check here if Agent ☐
Mailing Address: **16771 US 550**	Mailing Address:
City: **Aztec**	City:
State: **NM** Zip Code: **87410**	State: Zip Code:
Phone: ☐ Home ☐ Cell Phone (Work):	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional):	E-mail (optional):

2. WELL LOCATION Required: Coordinate location must be New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)

NM State Plane (NAD83) - In feet	NM West Zone ☒ NM Central Zone ☐ NM East Zone ☐	X (in feet): **2700221** Y (in feet): **2150917**		
UTM (NAD83) - In meters	UTM Zone 13N ☐ UTM Zone 12N ☐	Easting (in meters): Northing (in meters):		
Lat/Long (WGS84) - To 1/10th of second	Latitude:	deg	min	sec
	Longitude:	deg	min	sec

Other Location Information (complete the below, if applicable):

PLSS Quarters or Halves: **SE/4 NW/4 SW/4** Section: **08** Township: **31N** Range: **08W**

County: **San Juan**

Land Grant Name (if applicable):

Lot No: Block No: Unit/Tract: Subdivision:

Hydrographic Survey: Map: Tract:

Other description relating point of diversion to common landmarks, streets, or other: **Physical Address is 16771 US 550, Aztec**
UPC: 2-059-184-457-182

Point of Diversion is on Land Owned by (Required): R & G Hager Trust Recorded In Book 1278, Page 121

FOR OSE INTERNAL USE Application for Permit, Form wr-01, Rev11/16/11

File Number: SJ-4103POD 1	Trn Number: 579072	
Sub-basin:	POD No. 1	Log Due Date: N/A

3. PURPOSE OF USE

- ☒ Domestic use for one household
- ☐ Livestock watering
- ☐ Domestic use for more than one household. Number of households _____
- ☐ Drinking and sanitary uses that are incidental to the operations of a governmental, commercial, or non-profit facility
- ☐ Prospecting, mining or drilling operations to discover or develop natural resources
- ☐ Construction of public works, highways and roads
- ☐ Domestic use for one household and livestock watering
- ☐ Domestic use for multiple households and livestock watering
- ☐ Domestic well to accompany a house or other dwelling unit constructed for sale

4. WELL INFORMATION

File Information: (If existing well, provide OSE no. & indicate below if well is to be replacement, repaired or deepened, or supplemental. If new well, leave blank, as OSE must assign no.)

OSE Well No.(If Existing)	New Well No. (provided by OSE) **SJ-4103**
Driller Name: Unknown	**Driller License Number:**
Approximate Depth of Well (feet): **26.00**	Outside Diameter of Well Casing (inches): **6.00**

☐ Replacement well (List all existing wells if more than one):	☐ Repair or Deepen: ☐ Clean out well to original depth ☐ Deepen well from _____ to _____ ft. ☐ Other (Explain):	☐ Supplemental well (List OSE No. for all wells this will supplement):

5. ADDITIONAL STATEMENTS OR EXPLANATIONS

This well was drilled by a previous owner of the property and now Mr. Hager as the current owner is coming in to register the well with our office. A well log is not required as part of being an after the fact well.

ACKNOWLEDGEMENT

2014 JUL 29 PM 3:42
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

I, We (name of applicant(s)), **Ron Hager**
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Applicant Signature Applicant Signature

ACTION OF THE STATE ENGINEER (FOR OSE USE ONLY)

This application is approved subject to the attached general and specific conditions of approval.

Witness my hand and seal this 29 day of July 20 14, for the State Engineer,

By: Savannah Lindsay Carney
Signature **Savannah Lindsay Carney**
Print

STATE ENGINEER OF NEW MEXICO

FOR OSE INTERNAL USE Application for Permit, Form wr-01, Rev11/16/11

File Number: SJ-4103 POD1		Trn Number: 579072	
Sub-basin:	POD No. 1	Log Due Date: N/A	

NE\ EXICO OFFICE OF THE STATE EN EER
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, AND 72-12-1.3 NEW MEXICO STATUTES

INSTRUCTIONS

1. The application shall be made in the name of the actual user of the well for the purpose specified in the application (if the agent is submitting the application, check the agent box).

2. The application shall be filed with the appropriate filing fee.

3. A separate application must be filed for each well to be drilled or used.

4. If well to be used is an existing well, an explanation (and the file number, if possible) should be given under Remarks (Item 5).

FEE SCHEDULE FOR APPLICATIONS
72-12-1.1 (domestic) = $125.00
72-12-1.2 (livestock) = $5.00
72-12-1.3 (temporary) = $5.00
Replacement well = $ 75.00
Supplemental well= $125.00
Repair or Deepen = $ 75.00
Amend Domestic Use = $ 75.00

5. If well is to be used for livestock watering on state or federal land, proof of the following must be included as part of the application; (a) applicant is legally entitled to place his or her livestock on the land where the water is to be used, (b) applicant has been granted access to the drilling site and has permission to occupy the portion of the land as is necessary to drill and operate the well.

6. An application to drill a well on land owned by another person, the state of New Mexico, the federal government, or another entity shall be accompanied by written consent of the landowner.

7. For an application for drinking and sanitary uses that are incidental to the operations of a governmental, commercial, or non-profit facility, the applicant shall demonstrate that no alternative water supply is reasonably accessible or available.

8. An application for a 72-12-1.1 domestic well to serve multiple households shall be filed with documentation listing the number of households to be served by the well, the owner's contact information for each household to be served, and a description of the legal lot of record for each household to be served. A copy of a well share agreement may be filed to support the claim that the 72-12-1.1 domestic well will serve more than one household.

9. The Office of the State Engineer may require an application to be filed with a deed or purchase contract and plat of survey on file with the appropriate county.

10. See General Conditions of Approval for more information.

Application for permit, well records and requests for information in the following basins should be addressed to the Office of the State Engineer at:

Bluewater, Estancia, Gallup, Middle Rio Grande, Northern Tularosa, and Sandia Basins
District No. 1. 5550 San Antonio Dr. NE , Albuquerque, NM 87109 Phone # 505-383-4000

Capitan, Carlsbad, Casey Lingo, Curry County, Fort Sumner, Hagerman Canal, Hondo, Jal, Lea County, Peñasco, Roswell-Artesian, and Portales Basins
District No. 2. 1900 West Second St., Roswell, NM 88201 Phone # 575-622-6521

Animas, Cloverdale, Gila-San Francisco, Hachita, Lordsburg Valley, Mimbres, Mount Riley, Nutt-Hockett, Playas, San Simon, Virden Valley, and Yaqui Basins
District No. 3. P.O. Box 844, Deming, NM 88031 Phone # 575-546-2851

Lower Rio Grande, Southern Tularosa, Hueco, Las Animas Creek, Salt, and Hot Springs Basins
District No. 4. 1680 Hickory Loop, Suite J, Las Cruces, NM 88005. Phone # 575-524-6161

San Juan Basin
District No. 5. 100 Gossett Drive, Suite A, Aztec, NM 87410 Phone # 505-334-4571

Northern Rio Grande and Upper Pecos Basins
District No. 6. P.O. Box 25102, Santa Fe, NM 87504-5102 Phone # 505-827-6120

Canadian River, Clayton, and Tucumcari Basins
District No. 7. P.O. Box 481, 301 East 9th Street, Cimarron, NM 87714 Phone # 575-376-2918

2014 JUL 29 PM 3:42
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

NE\ EXICO OFFICE OF THE STATE EN EER
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, or 72-12-1.3 NEW MEXICO STATUTES

GENERAL CONDITIONS OF APPROVAL

06A The maximum amount of water that may be appropriated under this permit is 1.0 acre-feet in any year.

06B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).

06C Driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request, or may be printed from the OSE website at www.ose.state.nm.us, under applications & forms.

06D The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.

06E To request a change to the use of water authorized under this permit, the permittee shall file an application with the State Engineer.

06F An application for a new 72-12-1.1 domestic well permit where the proposed point of diversion is to be located on the same legal lot of record as an operational 72-12-1.1 domestic well shall be treated as an application for a supplemental well.

06G If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

06H The drilling of the well and amount and uses of water permitted are subject to such limitations as may be imposed by a court or by lawful municipal or county ordinance which are more restrictive than the conditions of this permit and applicable State Engineer regulations.

06I The permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

06J The well shall be set back a minimum of 50 feet from an existing well of other ownership unless a variance has been granted by the State Engineer. The State Engineer may grant a variance for a replacement well or to allow for maximum spacing of the well from a source of groundwater contamination. The well shall be set back from potential sources of contamination in accordance with rules and regulations of the New Mexico Environment Department.

06K Pursuant to Section 72-8-1 NMSA, the permittee shall allow the State Engineer and his representatives entry upon private property for the performance of their respective duties, including access to the well for meter reading and water level measurement.

06L The permit is subject to cancellation for non-compliance with the conditions of approval or if otherwise not exercised in accordance with the terms of the permit.

06M The right to divert water under this permit is subject to curtailment by priority administration as implemented by the State Engineer or a court.

06N In the event of any change of ownership to this permit the new owner shall file a change of ownership form with the State Engineer in accordance with Section 72-1-2.1 NMSA.

06O This well permit shall automatically expire unless the well is completed and the well record is filed with the State Engineer within one year of the date of issuance of the permit. It is the responsibility of the permit holder to ensure that the well record has been properly filed with the State Engineer.

2014 JUL 29 PM 3:42
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

NEW MEXICO OFFICE OF THE STATE ENGINEER
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, or 72-12-1.3 NEW MEXICO STATUTES
CONDITIONS OF APPROVAL
(Domestic One Household)

FILE NUMBER: SJ-4103 POD 1
PERMITTEE: Ron Hager

1. If applicable, the well being replaced shall be plugged upon completion of the replacement well. A plugging report shall be filed with the State Engineer within 20 days of the well being plugged. (Condition 06-6b)

2. The total diversion from all wells under this permit shall not exceed 1.0 acre-foot per annum. (Condition 06-10)

3. This permit authorizes the diversion of water for domestic use to serve a single household. The total diversion of water under this permit shall not exceed 1.0 acre-foot per year. The diversion of water for domestic use may include the watering of non-commercial trees, lawn and garden not to exceed one acre. (Condition 06-11)

4. Any diversion of water made in excess of the authorized maximum diversion amount in any calendar year shall be repaid with twice the amount of the over-diversion during the following calendar year. Repayment shall be made by either: (a) reducing the diversion during the following calendar year from the well that is the source of the over-diversion; or (b) acquiring or leasing a valid, existing consumptive use water right in an amount equal to the repayment amount and submitting to the state engineer for his approval a plan for the proposed repayment during the following calendar year. The plan for the proposed repayment shall be on a form prescribed by the state engineer. (Condition 06-18)

5. Well Record shall be due on or before N/A.

Witness my hand and seal this 29th day of July, A.D., 2014.

Scott A. Verhines, P.E.
New Mexico State Engineer

By: Savannah Lindsay Carney
Savannah Lindsay Carney
Water Rights Division
District 5

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2014 JUL 29 PM 3:42

Trn Desc.: _____ File Number: SJ-4103 POD 1
Log Due Date: N/A Trn Number: _____

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – AZTEC OFFICE

OFFICIAL RECEIPT NUMBER: 5-5090 DATE: 1/29/2014 FILE NO.: J-413 POD1

TOTAL: 12.00 RECEIVED: one hundred twenty DOLLARS CHECK NO.: 211 CASH:

PAYOR: [illegible] ADDRESS: [illegible] CITY: Aztec STATE: NM

ZIP: 874[illegible] RECEIVED BY: [illegible]

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; **yellow** copy remains in district office, and **goldenrod** copy to accompany application being filed If you make an error, void original and all copies and submit to Program Support/ASD along with other valid receipts.

A. Ground Water Rights Filling Fees

___ 1.	Declaration of Water Right	$ 1.00
X 2.	Application to Appropriate or Supplement Domestic 72-12-1 Well	$125.00
___ 3.	Application for Stock Well	$ 5.00
___ 4.	Application to Repair or Deepen 72-12-1 Well	$ 75.00
___ 5.	Application for Replacement 72-12-1-1 Well	$ 75.00
___ 6.	Application to Change Purpose of Use 72-12-1 Well	$ 75.00
___ 7.	Application to Appropriate Irrig., Mun., or Comm. Use	$ 25.00
___ 8.	Application for Supplemental Non 72-12-1 Well	$ 25.00
___ 9.	Application to Change Point of Diversion of Non 72-12-1 Well	$ 25.00
___ 10.	Application to Change Place or Purpose of Use Non 72-12-1 Well	$ 25.00
___ 11.	Application to Change Point of Diversion and Place and/or Purpose of Use	$ 50.00
___ 12.	Application for Extension of Time	$ 25.00
___ 13.	Proof of Application to Beneficial Use	$ 25.00
___ 14.	Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$ 50.00
___ 15.	Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water	$ 50.00
___ 16.	Application for Test, Expl. Observ. Well	$ 5.00
___ 17.	Change of Ownership of Water Right	$ 2.00
___ 18.	Application to Repair or Deepen Non 72-12-1 Well	$ 5.00
___ 19.	Application for Replacement Well Non 72-12-1 Well	$ 5.00

B. Surface Water Rights Filing Fees

___ 1.	Declaration of Water Right	$ 10.00
___ 2.	Amended Declaration	$ 25.00
___ 3.	Declaration of Livestock Water Impoundment	$ 10.00
___ 4.	Application for Livestock Water Impoundment	$ 10.00
___ 5.	Application to Appropriate	$ 25.00
___ 6.	Notice of Intent to Appropriate	$ 25.00
___ 7.	Application to Change Point of Diversion	$100.00
___ 8.	Application to Change Place and/or Purpose of Use	$100.00
___ 9.	Application to Change Point of Diversion and Place and/or Purpose of Use	$200.00
___ 10.	Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water	$200.00
___ 11.	Application for Extension of Time	$ 50.00
___ 12.	Supplemental Well to a Surface Right	$100.00
___ 13.	Return Flow Credit	$100.00
___ 14.	Proof of Completion of Works	$ 25.00
___ 15.	Proof of Application of Water to Beneficial Use	$ 25.00
___ 16.	Water Development Plan	$100.00
___ 17.	Change of Ownership of Water Right	$ 5.00

C. Miscellaneous Fees

___ 1.	Application for Well Driller's License	$ 50.00
___ 2.	Application for Renewal of Well Driller's License	$ 50.00
___ 3.	Application to Amend Well Driller's License	$ 50.00

D. Reproduction of Documents

_____ @ 0.20¢/copy $_____

_____ Maps(s) $_____

E. Certification $_____

F. Other $_____

G. Comments:

[illegible]

1475

30-045-24366

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit C Sec. 8 Twp 31 Rng 8

Name of Well/Wells or Pipeline Serviced OXNARD #1A

cps 6217w

Elevation N/A Completion Date 12/31/86 Total Depth 500' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 300'

Depths gas encountered: N/A

Type & amount of coke breeze used: 2000 lbs.

Depths anodes placed: 485', 470', 460', 410', 400', 390', 380', 360', 350', 340'

Depths vent pipes placed: 500'

Vent pipe perforations: 220'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

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.

BURGE CORROSION SYSTEMS, INC.

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

Drilling Log (Attach Hereto). ☒ 0217W

Completion Date December 31, 19

Well Name	Location	
Oxnard #1-A	Union Texas Petroleum	
Type & Size Bit Used		**Work Order No.**

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
500	10	2000#		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	485	470	460	410	400	390	380	360	350	340
Anode Output (Amps)	2.3	3.4	3.8	3.0	3.1	3.8	3.4	2.3	2.7	1.9
Anode Depth										
Anode Output (Amps)										

	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Depth										
Anode Output (Amps)										

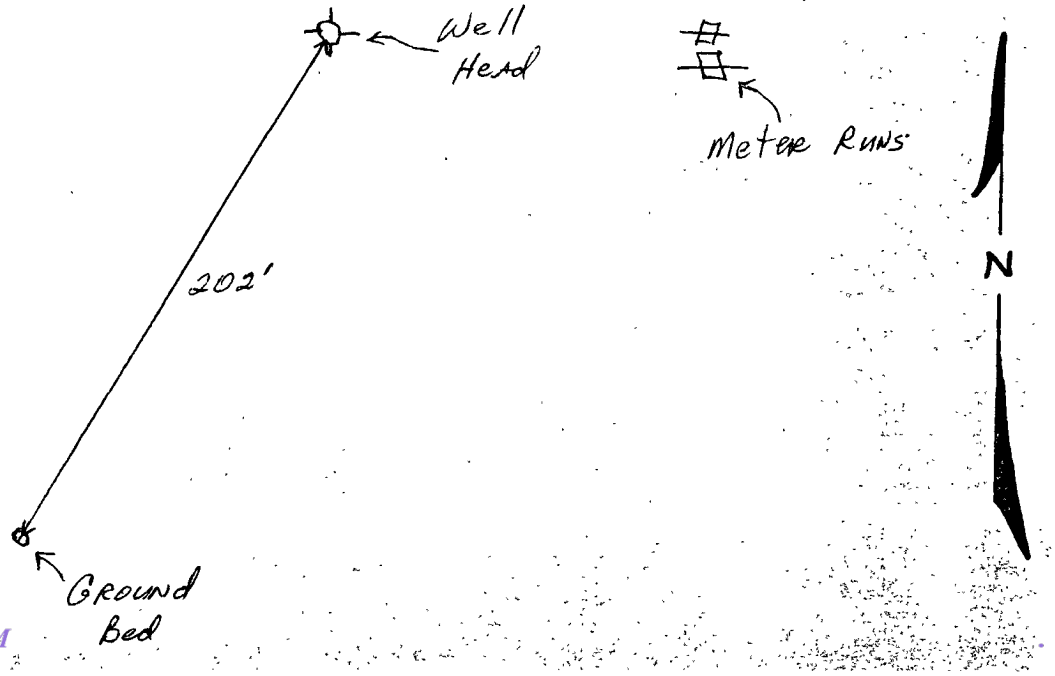
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.7	Amps 14.0	Ohms .84	4230'	

Remarks: Had to fill hole w/water to log. Used 500' of 1" vent pipe with 220' of perforations.

All Construction Completed

Cody Mumbres
(Signature)

GROUND BED LAYOUT SKETCH



CORROSION CONTROL CO. — 301 Ash — Azte[illegible]lew Mexico

COMPANY Union Texas Petroleum DAILY DRILLING REPORT December 31 19 86

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
Oxnard	1-A	8	31	8

WATER AT	FEET	HOLE MADE:
300'		500'

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0'	340'	Sand & Sand stone	Tan.
340'	500'	Some shale & bentonite in sand	Grey

REMARKS: Water volume was very small. Had to go to injection at 300'.

Driller [signature] Tool Dresser

DATA SHEET FOR DEEP BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(SUBMIT 2 COPIES TO OCD AZTEC OFFICE)

8-30-045-10997

PPCO DESIGNATION: FM-517
OPERATOR: PHILLIPS PETROLEUM COMPANY LOCATION: N 5 31 8
FARMINGTON, N.M. 87401 LEASE NUMBER: NA
(505) 599-3400
NAME OF WELL/S OR PIPELINE SERVED: (1) BLANCO #8 MV
(2) N/A

ELEVATION:NA COMPLETION DATE: 03/18/81
TOTAL DEPTH: 300 FT. LAND: FEDERAL

CASING INFO.; SIZE: NA IN. TYPE: NA
DEPTH: NA FT. CEMENT USED: NA

IF CEMENT OR BENTONITE PLUGS HAVE BEEN PLACED, SHOW DEPTHS & AMOUNTS:
PLUG DEPTH: NONE
PLUG AMOUNT: NONE

WATER INFORMATION:
WATER DEPTH (FT): (1) 60 (2) -0-
WATER INFORMATION: NA

DEPTHS GAS ENCOUNTERED (FT): NA

TYPE AND AMOUNT OF COKE BREEZE USED:
COKE TYPE: METALLURGICAL COKE BREEZE
COKE AMOUNT: 4163 LBS.

DEPTHS ANODES PLACED (FT):
130,140,160,170,180,210,220,230,240,280

DEPTH VENT PIPE PLACED (FT): 300

VENT PIPE PERFORATIONS (FT): TOP 120 BOTTOM 300

REMARKS: -0-

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOG, WATER ANALYSIS & 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.

NA-INFORMATION NOT AVAILABLE

RECEIVED
FEB21 1992
OIL CON. DIV.
DIST. 3

CC: CP FILE--FARMINGTON
HOUSTON

721

30-045-28250.C

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

9035cw

Operator Meridian Oil Location: Unit N Sec. 5 Twp 31 Rng 8

Name of Well/Wells or Pipeline Serviced Blanco #330

Elevation 6418 Completion Date 8-3-91 Total Depth 380' Land Type F

Casing Strings, Sizes, Types & Depths 80' 8" PVC

If Casing Strings are cemented, show amounts & types used yes 80'-16 Sacks

If Cement or Bentonite Plugs have been placed, show depths & amounts used None

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 125' - Fresh Hole making a little water at 80'

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 380' Asbury 55 Sacks

Depths anodes placed: #1-365', #2-355', #3-345', #4-335', #5-325', #6-300', #7-275', #8-230', #9-220', #10-210', #11-175', #12-165'

Depths vent pipes placed: 380' to Surface

Vent pipe perforations: From 380' to 80'

Remarks: No gas encountered in drilling

RECEIVED
FEB 24 1992
OIL CON. DIV.
DIST. 3

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.

CPS GROUND BED CONSTRUCTION WORKSHEET

CPS#	P/L NAME(s), NUMBER(s)					
[redacted] M311	TOTAL	VOLTS 12.6	AMPS 24.3	= OHMS .51	DATE 8-3-91	NAME David Ashworth

Blanco #330

REMARKS (notes for construction log)

H_2O - 125 Perf - 300'

DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	
100	2.1		295	2.3		490			685			
105	1.9		300	2.8	6	495			690			
110	1.1		305	2.2		500			695			
115	.9		310	1.4		505			700			
120	1.2		315	1.1		510			ANODE #	DEPTH	NO COKE	FULLY COK'D
125	2.8		320	9		515			1	365	2.1	3.8
130	3.0		325	2.5	5	520			2	355	2.5	4.7
135	3.3		330	3.8		525			3	345	3.1	5.5
140	3.2		335	3.7	4	530			4	335	3.7	6.2
145	2.4		340	3.2		535			5	325	2.4	5.0
150	1.7		345	3.4	3	540			6	300	2.5	4.3
155	1.7		350	3.0		545			7	275	2.0	3.9
160	2.5		355	2.6	2	550			8	230	3.6	6.2
[redacted]5	3.0	12	360	2.4		555			9	220	2.9	5.4
[redacted]70	2.9		365	2.1	1	560			10	210	3.0	5.4
175	2.9	11	370	1.4		565			11	175	2.9	5.3
180	3.1		375	1.4		570			12	165	2.9	5.2
185	2.2		380	380TD		575			13			
190	1.3		385			580			14			
195	1.0		390			585			15			
200	1.2		395			590			16			
205	2.1		400			595			17			
210	3.2	10	405			600			18			
215	2.8		410			605			19			
220	3.1	9	415			610			20			
225	3.8		420			615			21			
230	3.0	8	425			620			22			
235	2.2		430			625			23			
240	1.6		435			630			24			
245	1.2		440			635			25			
250	1.2		445			640			26			
255	1.1		450			645			27			
260	[illegible]		455			650			28			
265	1.4		460			655			29			
270	1.6		465			660			30			
275	2.0	7	470			665						
280	1.9		475			670						
285	1.3		480			675						
[redacted]0	1.6		485			680						

DISTRIBUTION - original - permanent CPS FILE
copy - Division Corrosion Supervisor
copy - Region Corrosion Specialist

API WATER ANALYSIS REPORT FORM

9035W

Laboratory No. 25910808-1H

Company	Sample No.	Date Sampled
MERIDIAN OIL		8-3-91

Field	Legal Description	County or Parish	State
	N-5, 31-8	SAN JUAN	N.M.

Lease or Unit	Well	Depth	Formation	Water, B/D
	BLANCO #330		WATER TABLE	

Type of Water (Produced, Supply, etc.)	Sampling Point	Sampled By
FRESH	DEEPWELL GR. BED FOR C.P.	D. ASHWORTH

DISSOLVED SOLIDS

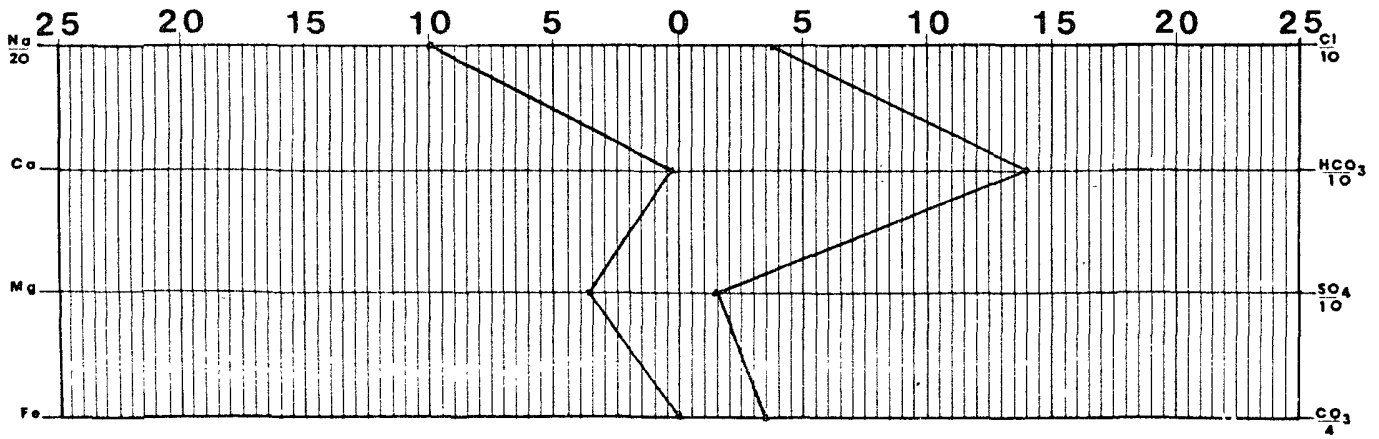
CATIONS	mg/l	me/l
Sodium, Na (calc.)	4600	200
Calcium, Ca	6.0	0.3
Magnesium, Mg	45	3.7
Barium, Ba		

ANIONS		
Chloride, Cl	1300	37
Sulfate, So_4	650	14
Carbonate, CO_3	420	14
Bicarbonate, HCO_3	8700	140

OTHER PROPERTIES

pH	8.7
Specific Gravity, 60/60 F.	1.0109
Resistivity (ohm-meters) 69° F.	0.75
Total Dissolved Solids (calc.)	16,000
Iron, Fe (total)	
Sulfide, as H_2S	

REMARKS & RECOMMENDATIONS:



Date Received	Preserved	Date Analyzed	Analyzed By
8-8-91	NO	8-12-91	ES

TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

#3 30-045-10918

708

#333 30-045-27657

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

6220 W

Operator Meridian Oil Co Location: Unit H Sec. 8 Twp 31 Rng 8

Name of Well/Wells or Pipeline Serviced Oxnard #333 & Oxnard #3

Elevation 6603 Completion Date 8-2-91 Total Depth 415' Land Type F

Casing Strings, Sizes, Types & Depths 180' 4" PVC - Ø

If Casing Strings are cemented, show amounts & types used Yes- 20 Sacks

If Cement or Bentonite Plugs have been placed, show depths & amounts used

None

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. Hole making a little water at 165'-160'

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 415' - Asbury

Depths anodes placed: #1- 390', #2- 380', #3- 370', #4- 360', #5- 350', #6- 320', #7- 310', #8- 270', #9- 760', #10- 185', #11- 175', #12- 165'

Depths vent pipes placed: 413' to Surface

Vent pipe perforations: From 115' to 415'

Remarks: No Gas encountered in hole

RECEIVED
FEB 24 1992
OIL CON. DIV.
DIST.

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.

CPS GROUND BED CONSTRUCTION WORKSHEET

CPS#	P/L NAME(s), NUMBER(s)					
6220-W	Oxnard #3 & #333					
WO #	TOTAL	VOLTS	AMPS	- OHMS	DATE	NAME
M314		12.3	17.0	.72	8-2-91	David Ashworth

REMARKS (notes for construction log)

Little H_2O at 165' Perf- 115' to 415'

DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #
100			295	1.0		490			685		
105			300	1.0		495			690		
110			305	1.2		500			695		
115			310	1.8	7	505			700		
120			315	2.0		510			ANODE #	DEPTH	NO COKE
125			320	1.6	6	515					
130			325	1.2		520			1	390	1.9
135			330	1.0		525			2	380	2.7
140			335	.9		530			3	370	2.5
145			340	1.0		535			4	360	2.4
150			345	1.1		540			5	350	1.7
155	1.0		350	1.4	5	545			6	320	2.0
160	1.6		355	2.1		550			7	310	2.0
165	2.1	12	360	2.4	4	555			8	270	1.8
170	2.8		365	2.5		560			9	260	1.7
175	2.9	11	370	2.5	3	565			10	185	2.4
180	2.1		375	2.6		570			11	175	2.9
185	1.1	10	380	3.0	2	575			12	165	2.6
190	.8		385	2.6		580			13		
195	.7		390	1.5	1	585			14		
200	.6		395	.9		590			15		
205	.6		400	.8		595			16		
210	.6		405	.8		600			17		
215	.6		410	.8		605			18		
220	.6		415	TD-415		610			19		
225	.7		420			615			20		
230	.7		425			620			21		
235	.8		430			625			22		
240	.7		435			630			23		
245	.7		440			635			24		
250	.7		445			640			25		
255	1.0		450			645			26		
260	1.6	9	455			650			27		
265	1.9		460			655			28		
270	1.7	8	465			660			29		
275	1.0		470			665			30		
280	.9		475			670					
285	.8		480			675					
290	.9		485			680					

FULLY COKED
4.6
4.5
4.9
4.5
4.2
3.5
3.5
3.3
3.2
5.0
5.5
5.3

DISTRIBUTION - original - permanent CPS FILE
copy - Division Corrosion Supervisor
copy - Region Corrosion Specialist

API WATER ANALYSIS REPORT FORM

6220 W

Laboratory No. 25410808-1B

Company	Sample No.	Date Sampled
MERIDIAN OIL		8-2-91

Field	Legal Description	County or Parish	State
	H-8, 31-8	SAN JUAN	N.M.

Lease or Unit	Well	Depth	Formation	Water, B/D
	OXNARD #333		DEEPWELL GR.BED	

Type of Water (Produced, Supply, etc.)	Sampling Point	Sampled By
CATHODIC PROTECTION		D. ASHWORTH

TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

DISSOLVED SOLIDS

CATIONS	*mg/l*	*me/l*
Sodium, Na (calc.)	6200	270
Calcium, Ca	8.0	0.4
Magnesium, Mg	47	3.9
Barium, Ba		

ANIONS		
Chloride, Cl	1500	42
Sulfate, So_4	37	7.6
Carbonate, CO_3	710	24
Bicarbonate, HCO_3	12,000	200

OTHER PROPERTIES

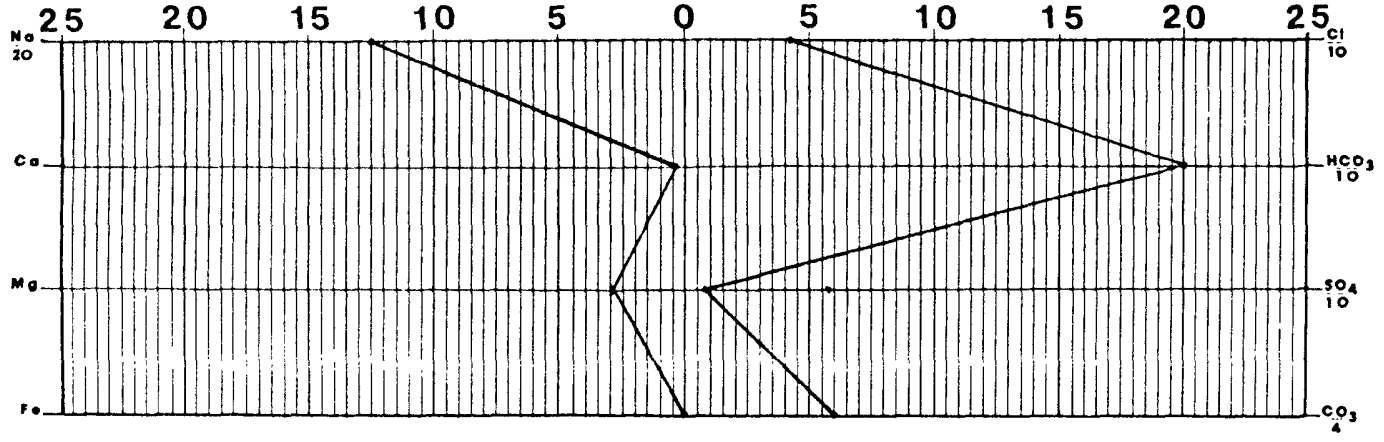
pH	8.8
Specific Gravity, 60/60 F.	1.0136
Resistivity (ohm-meters) 69° F.	0.160

Total Dissolved Solids (calc) 24,000

Iron, Fe (total)

Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:



Date Received	Preserved	Date Analyzed	Analyzed By
8/8/91	NO	8/12/91	EJ

1472

30-045-24411

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit P Sec. 8 Twp 31 Rng 8

Name of Well/Wells or Pipeline Serviced OXNARD #3A

cps 6221w

Elevation N/A Completion Date 12/30/86 Total Depth 520' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 300'

Depths gas encountered: N/A

Type & amount of coke breeze used: 2400 lbs.

Depths anodes placed: 500', 480', 470', 440', 400', 390', 380', 370', 340', 330'

Depths vent pipes placed: 520'

Vent pipe perforations: 200'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST.

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.

BURGE CORROSION SYSTEMS, INC.

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

Drilling Log (Attach Hereto). ☒ L22-21W

Completion Date December 30, 1986

Well Name	Location	
Oxnard # 3-A	Union Texas Petroleum	
Type & Size Bit Used		**Work Order No.**

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
520'	10	2400 #		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	500	480	470	440	400	390	380	370	340	330
Anode Output (Amps)	1.8	2.4	3.3	4.0	3.9	4.2	2.3	2.6	3.9	3.4

	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Depth										
Anode Output (Amps)										

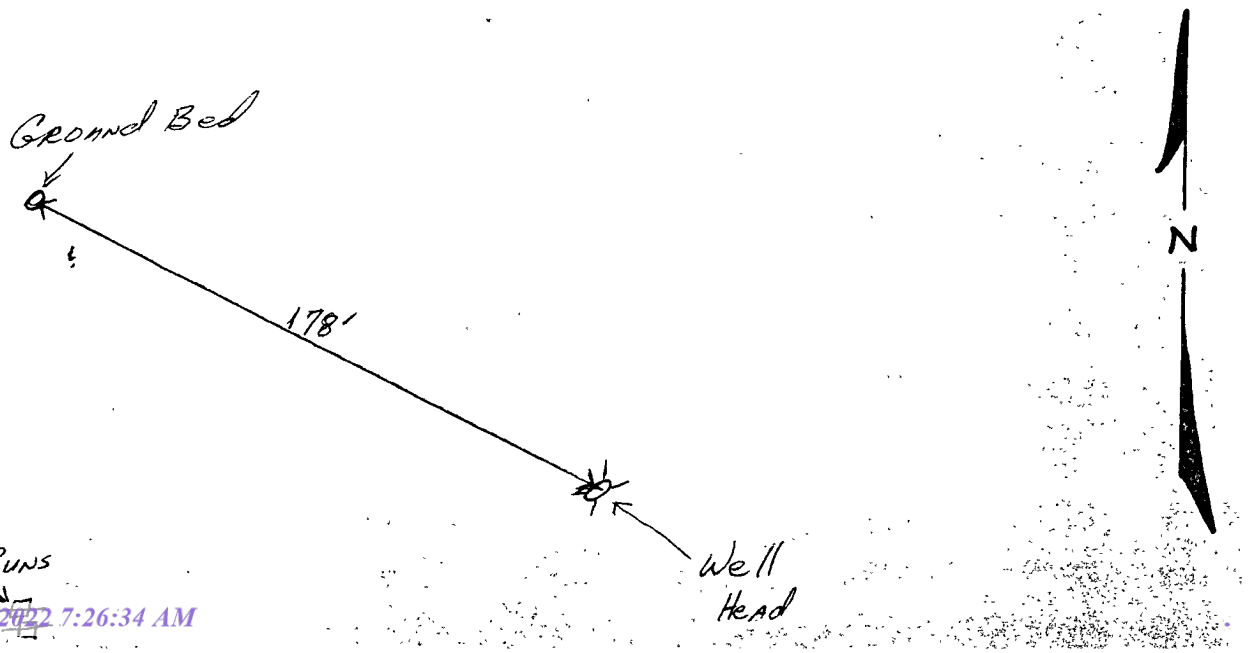
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.1	Amps 16.2	Ohms 0.75	3550'	

Remarks: Had to fill hole w/water to log hole. Used 520' of 1" vent pipe w/ 200' of perforation.

All Construction Completed

Cody Mumbrea
(Signature)

GROUND BED LAYOUT SKETCH



N CONTROL CO. — 301 Ash — Aztec, New Mexico

COMPANY Union Texas Petroleum DAILY DRILLING REPORT December 30 19 86

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
Oxnard	3-A	8	31	8

WATER AT	FEET	HOLE MADE:
300'		520'

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0'	320'	Sand & sandstone	Tan
320'	520'	Sand & Shale streamers	Grey.

REMARKS: Had to inject to drill from 300' on down to 520'.

Driller Cody Flowers Tool Dresser

OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT
DATA SHEET: NORTHWESTERN NEW MEXICO

OPERATOR: ConocoPhillips CO.
FARMINGTON, NM 87401
PHONE: 599-3400

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE

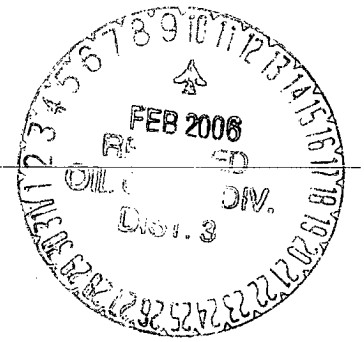
LOCATION INFORMATION

API Number: 3004532406

WELL NAME OR PIPELINE SERVED: 32-8 221A
LEGAL LOCATION: E-9-31-8
INSTALLATION DATE: 3/30/2005
PPCO. RECTIFIER NO.: FM-0895
ADDITIONAL WELLS: N/A
TYPE OF LEASE: FEDERAL
LEASE NUMBER: SF-079004

GROUND BED INFORMATION

TOTAL DEPTH: 400
CASING DIAMETER: 8-IN
TYPE OF CASING: PVC
CASING DEPTH: 20
CASING CEMENTED: ☐
TOP ANODE DEPTH: 220
BOTTOM ANODE DEPTH: 390
ANODE DEPTHS: 220,230,240,250,260,320,350,360,380,390
AMOUNT OF COKE: 3000#



WATER INFORMATION

WATER DEPTH (1): 100
WATER DEPTH (2):
GAS DEPTH:
CEMENT PLUGS:

OTHER INFORMATION

TOP OF VENT PERFORATIONS: 20
VENT PIPE DEPTH: 400
REMARKS: START UP ON 4-27-05 STATIC READ -.774

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED 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.

Tuesday, January

ENSOLUM

APPENDIX C

Executed C-138 Solid Waste Acceptance Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 47057-1088
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Oxnard #334S

3. Location of Material (Street Address, City, State or ULSTR):
UL B Section 8 T31N R8W; 36.916480, -107.698750 Feb. 2020

4. Source and Description of Waste: Hydrocarbon impacted soil/sludge.
Source: Remediation activities associated with a natural gas pipeline leak.
Description: Hydrocarbon/Condensate impacted soil/sludge associated natural gas pipeline release.
Estimated Volume (50) yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 6/10 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long Thomas Long 2-5-2020, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: TBD Riley, West States

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech Inc. Soil Remediation Facility * Permit #: NM 01-0011**
Address of Facility: **Hilltop, NM**
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED (Must Be Maintained As Permanent Record)**

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 2/6/20
SIGNATURE: Greg Crabtree TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

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APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC
Closure Report
Oxnard #334S Pipeline Release
Ensolum Project No. 05A1226093

ENSOLUM

Photograph 1 Photograph Description: View of the initial excavation.	
Photograph 2 Photograph Description: View of the initial excavation.	
Photograph 3 Photograph Description: View of the final excavation.	

SITE PHOTOGRAPHS

Enterprise Field Services, LLC
Closure Report
Oxnard #334S Pipeline Release
Ensolum Project No. 05A1226093

ENSOLUM

Photograph 4 Photograph Description: View of the final excavation.	
Photograph 5 Photograph Description: View of final excavation after initial restoration.	

ENSOLUM

APPENDIX E

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Oxnard #334S Pipeline Release
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (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/MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria				**10**	**NE**	**NE**	**NE**	**50**				**100**	**600**
Composite Soil Sample Removed by Excavation and Transported to the Landfarm for Disposal/Remediation													
S-3	2.10.20	C	10	<0.11	<0.23	<0.23	<0.45	ND	<23	620	1,100	**1,720**	<60
Stockpiled Soil Samples													
SP-1	2.10.20	C	Stockpile	<0.022	<0.044	<0.044	<0.087	ND	<4.4	<9.4	<47	ND	<60
SP-2	2.10.20	C	Stockpile	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.7	<49	ND	<59
SP-3	2.10.20	C	Stockpile	<0.024	<0.047	<0.047	<0.094	ND	<4.7	<9.7	<48	ND	<61
Excavation Composite Soil Samples													
S-1	2.07.20	C	0 to 10	<0.021	<0.043	<0.043	<0.086	ND	<4.3	<9.3	<46	ND	<60
S-2	2.07.20	C	0 to 10	<0.020	<0.040	<0.040	<0.081	ND	<4.0	<9.6	<48	ND	<59
S-4	2.10.20	C	10	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<9.7	<49	ND	<61
S-5	2.10.20	C	0 to 10	<0.023	<0.045	<0.045	<0.091	ND	<4.5	<9.4	<47	ND	<60
S-6	2.10.20	C	0 to 10	<0.021	<0.042	<0.042	<0.085	ND	<4.2	<9.8	<49	ND	<60
S-7	2.10.20	C	0 to 7	<0.022	<0.044	<0.044	<0.087	ND	<4.4	<8.7	<43	ND	<60
S-8	2.10.20	C	0 to 7	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.3	<47	ND	<60
S-9	2.14.20	C	11.5	<0.086	<0.17	<0.17	<0.34	ND	<17	<9.3	<46	ND	<60

Note: Concentrations in **bold** and yellow exceed the 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

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLUM

APPENDIX F

Laboratory Data Sheets & Chain of Custody Documentation

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

February 14, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Oxnard 334S OrderNo.: 2002339

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/8/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2002339**
Date Reported: **2/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-1
Project: Oxnard 334S **Collection Date:** 2/7/2020 1:40:00 PM
Lab ID: 2002339-001 **Matrix:** MEOH (SOIL) **Received Date:** 2/8/2020 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	2/10/2020 11:50:47 AM	50349
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	2/10/2020 11:41:50 AM	G66433
Surr: BFB	94.1	70-130		%Rec	1	2/10/2020 11:41:50 AM	G66433
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/10/2020 10:09:25 AM	50342
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/10/2020 10:09:25 AM	50342
Surr: DNOP	92.6	55.1-146		%Rec	1	2/10/2020 10:09:25 AM	50342
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.021		mg/Kg	1	2/10/2020 11:41:50 AM	A66433
Toluene	ND	0.043		mg/Kg	1	2/10/2020 11:41:50 AM	A66433
Ethylbenzene	ND	0.043		mg/Kg	1	2/10/2020 11:41:50 AM	A66433
Xylenes, Total	ND	0.086		mg/Kg	1	2/10/2020 11:41:50 AM	A66433
Surr: 1,2-Dichloroethane-d4	90.5	70-130		%Rec	1	2/10/2020 11:41:50 AM	A66433
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	2/10/2020 11:41:50 AM	A66433
Surr: Dibromofluoromethane	98.4	70-130		%Rec	1	2/10/2020 11:41:50 AM	A66433
Surr: Toluene-d8	96.5	70-130		%Rec	1	2/10/2020 11:41:50 AM	A66433

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002339**
Date Reported: **2/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-2
Project: Oxnard 334S **Collection Date:** 2/7/2020 1:45:00 PM
Lab ID: 2002339-002 **Matrix:** MEOH (SOIL) **Received Date:** 2/8/2020 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	59		mg/Kg	20	2/10/2020 12:03:08 PM	50349
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	2/10/2020 12:11:19 PM	G66433
Surr: BFB	94.8	70-130		%Rec	1	2/10/2020 12:11:19 PM	G66433
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/10/2020 10:18:28 AM	50342
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/10/2020 10:18:28 AM	50342
Surr: DNOP	88.2	55.1-146		%Rec	1	2/10/2020 10:18:28 AM	50342
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.020		mg/Kg	1	2/10/2020 12:11:19 PM	A66433
Toluene	ND	0.040		mg/Kg	1	2/10/2020 12:11:19 PM	A66433
Ethylbenzene	ND	0.040		mg/Kg	1	2/10/2020 12:11:19 PM	A66433
Xylenes, Total	ND	0.081		mg/Kg	1	2/10/2020 12:11:19 PM	A66433
Surr: 1,2-Dichloroethane-d4	90.5	70-130		%Rec	1	2/10/2020 12:11:19 PM	A66433
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	2/10/2020 12:11:19 PM	A66433
Surr: Dibromofluoromethane	99.7	70-130		%Rec	1	2/10/2020 12:11:19 PM	A66433
Surr: Toluene-d8	98.4	70-130		%Rec	1	2/10/2020 12:11:19 PM	A66433

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2002339**
14-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **MB-50349** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **50349** RunNo: **66436**
Prep Date: **2/10/2020** Analysis Date: **2/10/2020** SeqNo: **2283560** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-50349** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **50349** RunNo: **66436**
Prep Date: **2/10/2020** Analysis Date: **2/10/2020** SeqNo: **2283561** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2002339**
14-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **MB-50342** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **50342** RunNo: **66422**
Prep Date: **2/10/2020** Analysis Date: **2/10/2020** SeqNo: **2282502** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		80.0	55.1	146			

Sample ID: **LCS-50342** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **50342** RunNo: **66422**
Prep Date: **2/10/2020** Analysis Date: **2/10/2020** SeqNo: **2282503** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.6	70	130			
Surr: DNOP	3.9		5.000		77.4	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
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#: **2002339**
14-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **A66433** RunNo: **66433**
Prep Date: Analysis Date: **2/10/2020** SeqNo: **2282970** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.5	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.8	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.7	70	130			
Surr: Toluene-d8	0.49		0.5000		97.7	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS** Batch ID: **A66433** RunNo: **66433**
Prep Date: Analysis Date: **2/10/2020** SeqNo: **2282971** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.0	70	130			
Toluene	0.97	0.050	1.000	0	96.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.7	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.4	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		93.4	70	130			
Surr: Toluene-d8	0.48		0.5000		96.7	70	130			

Sample ID: **2002339-001ams** SampType: **MS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **S-1** Batch ID: **A66433** RunNo: **66433**
Prep Date: Analysis Date: **2/10/2020** SeqNo: **2282972** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.021	0.8584	0	102	70	130			
Toluene	0.86	0.043	0.8584	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	0.41		0.4292		96.3	70	130			
Surr: 4-Bromofluorobenzene	0.41		0.4292		96.3	70	130			
Surr: Dibromofluoromethane	0.43		0.4292		99.3	70	130			
Surr: Toluene-d8	0.42		0.4292		98.4	70	130			

Sample ID: **2002339-001amsd** SampType: **MSD** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **S-1** Batch ID: **A66433** RunNo: **66433**
Prep Date: Analysis Date: **2/10/2020** SeqNo: **2282973** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.021	0.8584	0	95.1	70	130	7.35	20	
Toluene	0.84	0.043	0.8584	0	97.6	70	130	2.98	20	

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#: **2002339**
14-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **2002339-001amsd** SampType: **MSD** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **S-1** Batch ID: **A66433** RunNo: **66433**
Prep Date: Analysis Date: **2/10/2020** SeqNo: **2282973** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.40		0.4292		94.0	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.43		0.4292		100	70	130	0	0	
Surr: Dibromofluoromethane	0.43		0.4292		99.5	70	130	0	0	
Surr: Toluene-d8	0.44		0.4292		102	70	130	0	0	

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#: **2002339**
14-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **G66433**	RunNo: **66433**
Prep Date:	Analysis Date: **2/10/2020**	SeqNo: **2283238** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		96.1	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G66433**	RunNo: **66433**
Prep Date:	Analysis Date: **2/10/2020**	SeqNo: **2283239** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.2	70	130			
Surr: BFB	480		500.0		96.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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: **ENSOLUM AZTEC** Work Order Number: **2002339** RcptNo: **1**

Received By: **Erin Melendrez** **2/8/2020 8:35:00 AM**

Completed By: **Erin Melendrez** **2/8/2020 10:25:28 AM**

Reviewed By: YG 2/10/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: ENM 2/8/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A
Aztec, NM 87410

Phone #:

email or Fax#: jcsummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: SAME DAY
☐ Standard ☒ Rush 100%

Project Name: Oxnard 334S

Project #: See notes

Project Manager: KSummers

Sampler: RDeChilly

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.8+0.1(CF)=2.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2002339	BTEX / ~~MTBE / TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
2/7/20	1340	S	S-1	1x4oz Jar	cool	-001	X	X									X
2/7/20	1345	S	S-2	1x4oz Jar	cool	-002	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/7/20	1547				2/7/20	1547
2/7/20	1850			Courier	2/8/20	0835

Remarks: SAME DAY
PM - Tom Long (EPROD)
Pay Key - RB21200
NM AFE - N46099

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

February 12, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Oxnard 334S OrderNo.: 2002406

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/11/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2002406**
Date Reported: **2/12/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-3
Project: Oxnard 334S
Collection Date: 2/10/2020 9:45:00 AM
Lab ID: 2002406-001 **Matrix:** SOIL **Received Date:** 2/11/2020 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	2/11/2020 12:24:52 PM	50383
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	2/11/2020 11:41:45 AM	R66465
Surr: BFB	97.0	70-130		%Rec	5	2/11/2020 11:41:45 AM	R66465
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	620	95		mg/Kg	10	2/11/2020 1:33:54 PM	50375
Motor Oil Range Organics (MRO)	1100	470		mg/Kg	10	2/11/2020 1:33:54 PM	50375
Surr: DNOP	0	55.1-146	S	%Rec	10	2/11/2020 1:33:54 PM	50375
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.11		mg/Kg	5	2/11/2020 11:41:45 AM	R66465
Toluene	ND	0.23		mg/Kg	5	2/11/2020 11:41:45 AM	R66465
Ethylbenzene	ND	0.23		mg/Kg	5	2/11/2020 11:41:45 AM	R66465
Xylenes, Total	ND	0.45		mg/Kg	5	2/11/2020 11:41:45 AM	R66465
Surr: 1,2-Dichloroethane-d4	96.2	70-130		%Rec	5	2/11/2020 11:41:45 AM	R66465
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	5	2/11/2020 11:41:45 AM	R66465
Surr: Dibromofluoromethane	101	70-130		%Rec	5	2/11/2020 11:41:45 AM	R66465
Surr: Toluene-d8	94.5	70-130		%Rec	5	2/11/2020 11:41:45 AM	R66465

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002406**
Date Reported: **2/12/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-4
Project: Oxnard 334S
Collection Date: 2/10/2020 9:50:00 AM
Lab ID: 2002406-002 **Matrix:** SOIL **Received Date:** 2/11/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	61		mg/Kg	20	2/11/2020 12:37:13 PM	50383
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	2/11/2020 12:10:09 PM	R66465
Surr: BFB	99.3	70-130		%Rec	1	2/11/2020 12:10:09 PM	R66465
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/11/2020 1:31:19 PM	50375
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/11/2020 1:31:19 PM	50375
Surr: DNOP	86.7	55.1-146		%Rec	1	2/11/2020 1:31:19 PM	50375
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.021		mg/Kg	1	2/11/2020 12:10:09 PM	R66465
Toluene	ND	0.042		mg/Kg	1	2/11/2020 12:10:09 PM	R66465
Ethylbenzene	ND	0.042		mg/Kg	1	2/11/2020 12:10:09 PM	R66465
Xylenes, Total	ND	0.084		mg/Kg	1	2/11/2020 12:10:09 PM	R66465
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	1	2/11/2020 12:10:09 PM	R66465
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	2/11/2020 12:10:09 PM	R66465
Surr: Dibromofluoromethane	101	70-130		%Rec	1	2/11/2020 12:10:09 PM	R66465
Surr: Toluene-d8	91.2	70-130		%Rec	1	2/11/2020 12:10:09 PM	R66465

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002406**
Date Reported: **2/12/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-5
Project: Oxnard 334S
Collection Date: 2/10/2020 9:55:00 AM
Lab ID: 2002406-003 **Matrix:** SOIL **Received Date:** 2/11/2020 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	2/11/2020 12:49:34 PM	50383
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	2/11/2020 12:38:32 PM	R66465
Surr: BFB	95.6	70-130		%Rec	1	2/11/2020 12:38:32 PM	R66465
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/11/2020 1:49:01 PM	50375
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/11/2020 1:49:01 PM	50375
Surr: DNOP	83.5	55.1-146		%Rec	1	2/11/2020 1:49:01 PM	50375
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	2/11/2020 12:38:32 PM	R66465
Toluene	ND	0.045		mg/Kg	1	2/11/2020 12:38:32 PM	R66465
Ethylbenzene	ND	0.045		mg/Kg	1	2/11/2020 12:38:32 PM	R66465
Xylenes, Total	ND	0.091		mg/Kg	1	2/11/2020 12:38:32 PM	R66465
Surr: 1,2-Dichloroethane-d4	96.7	70-130		%Rec	1	2/11/2020 12:38:32 PM	R66465
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	2/11/2020 12:38:32 PM	R66465
Surr: Dibromofluoromethane	101	70-130		%Rec	1	2/11/2020 12:38:32 PM	R66465
Surr: Toluene-d8	94.2	70-130		%Rec	1	2/11/2020 12:38:32 PM	R66465

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

Analytical Report
Lab Order **2002406**
Date Reported: **2/12/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-6
Project: Oxnard 334S
Collection Date: 2/10/2020 10:00:00 AM
Lab ID: 2002406-004 **Matrix:** SOIL **Received Date:** 2/11/2020 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	2/11/2020 1:01:54 PM	50383
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	2/11/2020 1:06:57 PM	R66465
Surr: BFB	95.4	70-130		%Rec	1	2/11/2020 1:06:57 PM	R66465
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/11/2020 1:58:02 PM	50375
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/11/2020 1:58:02 PM	50375
Surr: DNOP	85.2	55.1-146		%Rec	1	2/11/2020 1:58:02 PM	50375
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.021		mg/Kg	1	2/11/2020 1:06:57 PM	R66465
Toluene	ND	0.042		mg/Kg	1	2/11/2020 1:06:57 PM	R66465
Ethylbenzene	ND	0.042		mg/Kg	1	2/11/2020 1:06:57 PM	R66465
Xylenes, Total	ND	0.085		mg/Kg	1	2/11/2020 1:06:57 PM	R66465
Surr: 1,2-Dichloroethane-d4	95.9	70-130		%Rec	1	2/11/2020 1:06:57 PM	R66465
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	2/11/2020 1:06:57 PM	R66465
Surr: Dibromofluoromethane	98.2	70-130		%Rec	1	2/11/2020 1:06:57 PM	R66465
Surr: Toluene-d8	91.1	70-130		%Rec	1	2/11/2020 1:06:57 PM	R66465

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002406**
Date Reported: **2/12/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-7
Project: Oxnard 334S
Collection Date: 2/10/2020 10:05:00 AM
Lab ID: 2002406-005 **Matrix:** SOIL **Received Date:** 2/11/2020 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	2/11/2020 1:38:57 PM	50383
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	2/11/2020 1:35:23 PM	R66465
Surr: BFB	95.1	70-130		%Rec	1	2/11/2020 1:35:23 PM	R66465
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	2/11/2020 2:07:15 PM	50375
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/11/2020 2:07:15 PM	50375
Surr: DNOP	84.8	55.1-146		%Rec	1	2/11/2020 2:07:15 PM	50375
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.022		mg/Kg	1	2/11/2020 1:35:23 PM	R66465
Toluene	ND	0.044		mg/Kg	1	2/11/2020 1:35:23 PM	R66465
Ethylbenzene	ND	0.044		mg/Kg	1	2/11/2020 1:35:23 PM	R66465
Xylenes, Total	ND	0.087		mg/Kg	1	2/11/2020 1:35:23 PM	R66465
Surr: 1,2-Dichloroethane-d4	93.4	70-130		%Rec	1	2/11/2020 1:35:23 PM	R66465
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	2/11/2020 1:35:23 PM	R66465
Surr: Dibromofluoromethane	95.8	70-130		%Rec	1	2/11/2020 1:35:23 PM	R66465
Surr: Toluene-d8	92.2	70-130		%Rec	1	2/11/2020 1:35:23 PM	R66465

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002406**
Date Reported: **2/12/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-8
Project: Oxnard 334S
Collection Date: 2/10/2020 10:10:00 AM
Lab ID: 2002406-006 **Matrix:** SOIL **Received Date:** 2/11/2020 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	2/11/2020 1:51:18 PM	50383
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	2/11/2020 2:03:48 PM	R66465
Surr: BFB	93.2	70-130		%Rec	1	2/11/2020 2:03:48 PM	R66465
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/11/2020 2:16:26 PM	50375
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/11/2020 2:16:26 PM	50375
Surr: DNOP	86.2	55.1-146		%Rec	1	2/11/2020 2:16:26 PM	50375
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.019		mg/Kg	1	2/11/2020 2:03:48 PM	R66465
Toluene	ND	0.038		mg/Kg	1	2/11/2020 2:03:48 PM	R66465
Ethylbenzene	ND	0.038		mg/Kg	1	2/11/2020 2:03:48 PM	R66465
Xylenes, Total	ND	0.076		mg/Kg	1	2/11/2020 2:03:48 PM	R66465
Surr: 1,2-Dichloroethane-d4	97.2	70-130		%Rec	1	2/11/2020 2:03:48 PM	R66465
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	2/11/2020 2:03:48 PM	R66465
Surr: Dibromofluoromethane	101	70-130		%Rec	1	2/11/2020 2:03:48 PM	R66465
Surr: Toluene-d8	90.3	70-130		%Rec	1	2/11/2020 2:03:48 PM	R66465

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2002406**
12-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **MB-50383** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **50383** RunNo: **66464**
Prep Date: **2/11/2020** Analysis Date: **2/11/2020** SeqNo: **2284361** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-50383** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **50383** RunNo: **66464**
Prep Date: **2/11/2020** Analysis Date: **2/11/2020** SeqNo: **2284364** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2002406**
12-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **MB-50375** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **50375** RunNo: **66445**
Prep Date: **2/11/2020** Analysis Date: **2/11/2020** SeqNo: **2283399** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	55.1	146			

Sample ID: **LCS-50375** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **50375** RunNo: **66445**
Prep Date: **2/11/2020** Analysis Date: **2/11/2020** SeqNo: **2283414** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.2	70	130			
Surr: DNOP	4.2		5.000		83.5	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
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#: **2002406**

12-Feb-20

Client: ENSOLUM

Project: Oxnard 334S

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **LCSS** Batch ID: **R66465** RunNo: **66465**

Prep Date: Analysis Date: **2/11/2020** SeqNo: **2283860** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.5	70	130			
Toluene	0.91	0.050	1.000	0	91.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.6	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.5	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			
Surr: Toluene-d8	0.47		0.5000		95.0	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **PBS** Batch ID: **R66465** RunNo: **66465**

Prep Date: Analysis Date: **2/11/2020** SeqNo: **2283867** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.6	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.1	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.6	70	130			
Surr: Toluene-d8	0.46		0.5000		91.8	70	130			

Sample ID: **2002406-002a ms** SampType: **MS** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **S-4** Batch ID: **R66465** RunNo: **66465**

Prep Date: Analysis Date: **2/11/2020** SeqNo: **2285066** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.021	0.8382	0	102	70	130			
Toluene	0.83	0.042	0.8382	0	98.8	70	130			
Surr: 1,2-Dichloroethane-d4	0.38		0.4191		90.4	70	130			
Surr: 4-Bromofluorobenzene	0.40		0.4191		95.8	70	130			
Surr: Dibromofluoromethane	0.40		0.4191		96.3	70	130			
Surr: Toluene-d8	0.37		0.4191		89.4	70	130			

Sample ID: **2002406-002a msd** SampType: **MSD** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **S-4** Batch ID: **R66465** RunNo: **66465**

Prep Date: Analysis Date: **2/11/2020** SeqNo: **2285067** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.021	0.8382	0	97.9	70	130	4.37	20	
Toluene	0.79	0.042	0.8382	0	94.2	70	130	4.78	20	

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#: **2002406**
12-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **2002406-002a msd** SampType: **MSD** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **S-4** Batch ID: **R66465** RunNo: **66465**
Prep Date: Analysis Date: **2/11/2020** SeqNo: **2285067** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.38		0.4191		90.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.39		0.4191		93.9	70	130	0	0	
Surr: Dibromofluoromethane	0.40		0.4191		94.9	70	130	0	0	
Surr: Toluene-d8	0.38		0.4191		91.6	70	130	0	0	

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#: **2002406**

12-Feb-20

Client: ENSOLUM

Project: Oxnard 334S

Sample ID: **2.5ug lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R66465**	RunNo: **66465**
Prep Date:	Analysis Date: **2/11/2020**	SeqNo: **2283869** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	79.8	70	130			
Surr: BFB	460		500.0		91.6	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R66465**	RunNo: **66465**
Prep Date:	Analysis Date: **2/11/2020**	SeqNo: **2283876** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		94.3	70	130			

Sample ID: **2002406-001a ms**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **S-3**	Batch ID: **R66465**	RunNo: **66465**
Prep Date:	Analysis Date: **2/11/2020**	SeqNo: **2285072** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	91	23	112.9	0	80.8	70	130			
Surr: BFB	2100		2258		93.0	70	130			

Sample ID: **2002406-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **S-3**	Batch ID: **R66465**	RunNo: **66465**
Prep Date:	Analysis Date: **2/11/2020**	SeqNo: **2285073** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	88	23	112.9	0	77.6	70	130	4.09	20	
Surr: BFB	2100		2258		93.9	70	130	0	0	

Sample ID: **lcs-50355**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **50355**	RunNo: **66465**
Prep Date: **2/10/2020**	Analysis Date: **2/11/2020**	SeqNo: **2285074** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	480		500.0		96.5	70	130			

Sample ID: **MB-50355**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **50355**	RunNo: **66465**
Prep Date: **2/10/2020**	Analysis Date: **2/11/2020**	SeqNo: **2285075** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	470		500.0		94.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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: **ENSOLUM AZTEC** Work Order Number: **2002406** RcptNo: **1**

Received By: **Andy Freeman** **2/11/2020 8:05:00 AM**

Completed By: **Leah Baca** **2/11/2020 8:16:49 AM**

Reviewed By: IO 2/11/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: LB 2/11/2020

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			
2	1.6	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: Ksummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: SAME DAY
☐ Standard ☒ Rush 100%

Project Name: Oxnard 3345

Project #: See notes

Project Manager: Ksummers

Sampler: RDeechilly

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 1.6+0.2=1.8 C
1.4+0.2=1.6 C (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2002406	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
2/10/20	945	S	S-3	1x4oz Jar	cool	-001	X	X									X
2/10/20	950	S	S-4	1x4oz Jar	cool	-002	X	X									X
2/10/20	955	S	S-5	1x4oz Jar	cool	-003	X	X									X
2/10/20	1000	S	S-6	1x4oz Jar	cool	-004	X	X									X
2/10/20	1005	S	S-7	1x4oz Jar	cool	-005	X	X									X
2/10/20	1010	S	S-8	1x4oz Jar	cool	-006	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
9/10/20	1754				2/10/20	1954
2/10/20	1907				2/11/2020	0805

Remarks: SAME DAY
PM - Tom Long (EPROD)
Pax key - RB21200
Non AFE - N46099

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

February 14, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Oxnard 334S OrderNo.: 2002403

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/11/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2002403**
Date Reported: **2/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-1
Project: Oxnard 334S **Collection Date:** 2/10/2020 10:15:00 AM
Lab ID: 2002403-001 **Matrix:** MEOH (SOIL) **Received Date:** 2/11/2020 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	2/11/2020 12:49:38 PM	50382
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	2/11/2020 10:14:06 AM	GS6645
Surr: BFB	93.4	70-130		%Rec	1	2/11/2020 10:14:06 AM	GS6645
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/11/2020 11:39:28 AM	50375
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/11/2020 11:39:28 AM	50375
Surr: DNOP	86.3	55.1-146		%Rec	1	2/11/2020 11:39:28 AM	50375
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.022		mg/Kg	1	2/11/2020 10:14:06 AM	SS6645
Toluene	ND	0.044		mg/Kg	1	2/11/2020 10:14:06 AM	SS6645
Ethylbenzene	ND	0.044		mg/Kg	1	2/11/2020 10:14:06 AM	SS6645
Xylenes, Total	ND	0.087		mg/Kg	1	2/11/2020 10:14:06 AM	SS6645
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	2/11/2020 10:14:06 AM	SS6645
Surr: Toluene-d8	99.7	70-130		%Rec	1	2/11/2020 10:14:06 AM	SS6645

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

Analytical Report
Lab Order **2002403**
Date Reported: **2/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-2
Project: Oxnard 334S **Collection Date:** 2/10/2020 10:20:00 AM
Lab ID: 2002403-002 **Matrix:** MEOH (SOIL) **Received Date:** 2/11/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	59		mg/Kg	20	2/11/2020 1:02:02 PM	50382
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/11/2020 10:43:11 AM	GS6645
Surr: BFB	89.8	70-130		%Rec	1	2/11/2020 10:43:11 AM	GS6645
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/11/2020 11:48:32 AM	50375
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/11/2020 11:48:32 AM	50375
Surr: DNOP	90.6	55.1-146		%Rec	1	2/11/2020 11:48:32 AM	50375
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.024		mg/Kg	1	2/11/2020 10:43:11 AM	SS6645
Toluene	ND	0.048		mg/Kg	1	2/11/2020 10:43:11 AM	SS6645
Ethylbenzene	ND	0.048		mg/Kg	1	2/11/2020 10:43:11 AM	SS6645
Xylenes, Total	ND	0.097		mg/Kg	1	2/11/2020 10:43:11 AM	SS6645
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	2/11/2020 10:43:11 AM	SS6645
Surr: Toluene-d8	95.8	70-130		%Rec	1	2/11/2020 10:43:11 AM	SS6645

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002403**
Date Reported: **2/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-3
Project: Oxnard 334S **Collection Date:** 2/10/2020 10:25:00 AM
Lab ID: 2002403-003 **Matrix:** MEOH (SOIL) **Received Date:** 2/11/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	61		mg/Kg	20	2/11/2020 1:39:16 PM	50382
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/11/2020 11:12:16 AM	GS6645
Surr: BFB	90.8	70-130		%Rec	1	2/11/2020 11:12:16 AM	GS6645
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/11/2020 11:57:39 AM	50375
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/11/2020 11:57:39 AM	50375
Surr: DNOP	83.5	55.1-146		%Rec	1	2/11/2020 11:57:39 AM	50375
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.024		mg/Kg	1	2/11/2020 11:12:16 AM	SS6645
Toluene	ND	0.047		mg/Kg	1	2/11/2020 11:12:16 AM	SS6645
Ethylbenzene	ND	0.047		mg/Kg	1	2/11/2020 11:12:16 AM	SS6645
Xylenes, Total	ND	0.094		mg/Kg	1	2/11/2020 11:12:16 AM	SS6645
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	2/11/2020 11:12:16 AM	SS6645
Surr: Toluene-d8	96.6	70-130		%Rec	1	2/11/2020 11:12:16 AM	SS6645

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2002403**
14-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **MB-50382** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **50382** RunNo: **66467**
Prep Date: **2/11/2020** Analysis Date: **2/11/2020** SeqNo: **2284146** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-50382** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **50382** RunNo: **66467**
Prep Date: **2/11/2020** Analysis Date: **2/11/2020** SeqNo: **2284148** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2002403**
14-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **MB-50375** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **50375** RunNo: **66445**
Prep Date: **2/11/2020** Analysis Date: **2/11/2020** SeqNo: **2283399** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	55.1	146			

Sample ID: **LCS-50375** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **50375** RunNo: **66445**
Prep Date: **2/11/2020** Analysis Date: **2/11/2020** SeqNo: **2283414** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.2	70	130			
Surr: DNOP	4.2		5.000		83.5	55.1	146			

Sample ID: **2002403-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SP-1** Batch ID: **50375** RunNo: **66457**
Prep Date: **2/11/2020** Analysis Date: **2/11/2020** SeqNo: **2283935** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	8.9	44.68	4.730	94.3	47.4	136			
Surr: DNOP	2.3		4.468		52.1	55.1	146			S

Sample ID: **2002403-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SP-1** Batch ID: **50375** RunNo: **66457**
Prep Date: **2/11/2020** Analysis Date: **2/11/2020** SeqNo: **2284069** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.6	47.85	4.730	91.7	47.4	136	3.63	43.4	
Surr: DNOP	3.4		4.785		71.0	55.1	146	0	0	

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#: **2002403**
14-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **SS66459** RunNo: **66459**
Prep Date: Analysis Date: **2/11/2020** SeqNo: **2284118** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.3	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.8	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS** Batch ID: **SS66459** RunNo: **66459**
Prep Date: Analysis Date: **2/11/2020** SeqNo: **2284119** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.0	70	130			
Toluene	0.97	0.050	1.000	0	97.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.4	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.3	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.8	70	130			
Surr: Toluene-d8	0.50		0.5000		99.2	70	130			

Sample ID: **2002403-002ams** SampType: **MS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **SP-2** Batch ID: **SS66459** RunNo: **66459**
Prep Date: Analysis Date: **2/11/2020** SeqNo: **2284120** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9699	0	104	70	130			
Toluene	0.93	0.048	0.9699	0	96.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.4850		93.6	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4850		96.9	70	130			
Surr: Dibromofluoromethane	0.47		0.4850		97.0	70	130			
Surr: Toluene-d8	0.46		0.4850		95.0	70	130			

Sample ID: **2002403-002amsd** SampType: **MSD** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **SP-2** Batch ID: **SS66459** RunNo: **66459**
Prep Date: Analysis Date: **2/11/2020** SeqNo: **2284121** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9699	0	96.0	70	130	8.01	20	
Toluene	0.91	0.048	0.9699	0	94.3	70	130	2.14	20	

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#: **2002403**
14-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **2002403-002amsd** SampType: **MSD** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **SP-2** Batch ID: **SS66459** RunNo: **66459**
Prep Date: Analysis Date: **2/11/2020** SeqNo: **2284121** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.45		0.4850		93.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.46		0.4850		95.4	70	130	0	0	
Surr: Dibromofluoromethane	0.48		0.4850		98.8	70	130	0	0	
Surr: Toluene-d8	0.47		0.4850		96.4	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2002403**
14-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS66459**	RunNo: **66459**
Prep Date:	Analysis Date: **2/11/2020**	SeqNo: **2284342** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		95.8	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GS66459**	RunNo: **66459**
Prep Date:	Analysis Date: **2/11/2020**	SeqNo: **2284343** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.8	70	130			
Surr: BFB	460		500.0		92.9	70	130			

Sample ID: **2002403-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **SP-1**	Batch ID: **GS66459**	RunNo: **66459**
Prep Date:	Analysis Date: **2/11/2020**	SeqNo: **2284344** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.4	21.78	0	86.6	70	130			
Surr: BFB	410		435.6		93.1	70	130			

Sample ID: **2002403-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **SP-1**	Batch ID: **GS66459**	RunNo: **66459**
Prep Date:	Analysis Date: **2/11/2020**	SeqNo: **2284345** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.4	21.78	0	85.3	70	130	1.49	20	
Surr: BFB	410		435.6		94.1	70	130	0	0	

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

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: **ENSOLUM AZTEC** Work Order Number: **2002403** RcptNo: **1**

Received By: **Andy Freeman** **2/11/2020 8:05:00 AM** Andy F

Completed By: **Isaiah Ortiz** **2/11/2020 8:10:35 AM** I-Ox

Reviewed By: LB 2/11/2020

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑

    # of preserved bottles checked for pH: _____ (≤2 or >12 unless noted)
    Adjusted? _____
    Checked by: _____

    2/11/2020

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

    Person Notified: _____ Date: _____
    By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
    Regarding: _____
    Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			
2	1.6	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: SAME DAY
☐ Standard ☒ Rush 100%

Project Name: Oxnard 3345

Project #: see notes

Project Manager: KSummers

Sampler: RDeechilly
On Ice: ☒ Yes ☐ No
# of Coolers: 2
Cooler Temp(including CF): 1.6+0.2 = 1.8 1.4+0.2 (°C) 1.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2002403	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
2/10/20	1015	S	SP-1	1x4oz Jar	cool	-001	X	X									X
2/10/20	1020	S	SP-2	1x4oz Jar	cool	-002	X	X									X
2/10/20	1025	S	SP-3	1x4oz Jar	cool	-003	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
2/10/20	1754		Christen Waele		2/10/20	1754
2/10/20	1907	Christen Waele			2/11/2020	0805

Remarks: SAME DAY
PM - Tom Long (EPROD)
Pay Key - RB21200
Non AFE - N46099

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

February 18, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX:

RE: Oxnard 334S OrderNo.: 2002624

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/15/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2002624**
Date Reported: **2/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-9
Project: Oxnard 334S **Collection Date:** 2/14/2020 10:00:00 AM
Lab ID: 2002624-001 **Matrix:** MEOH (SOIL) **Received Date:** 2/15/2020 12:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	ND	60		mg/Kg	20	2/17/2020 12:28:40 PM	50475
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/17/2020 10:43:52 AM	50471
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/17/2020 10:43:52 AM	50471
Surr: DNOP	82.1	55.1-146		%Rec	1	2/17/2020 10:43:52 AM	50471
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	2/17/2020 11:36:31 AM	G66590
Surr: BFB	83.2	66.6-105		%Rec	5	2/17/2020 11:36:31 AM	G66590
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.086		mg/Kg	5	2/17/2020 11:36:31 AM	B66590
Toluene	ND	0.17		mg/Kg	5	2/17/2020 11:36:31 AM	B66590
Ethylbenzene	ND	0.17		mg/Kg	5	2/17/2020 11:36:31 AM	B66590
Xylenes, Total	ND	0.34		mg/Kg	5	2/17/2020 11:36:31 AM	B66590
Surr: 4-Bromofluorobenzene	90.2	80-120		%Rec	5	2/17/2020 11:36:31 AM	B66590

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2002624**
18-Feb-20

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: **MB-50475** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **50475** RunNo: **66591**
Prep Date: **2/17/2020** Analysis Date: **2/17/2020** SeqNo: **2288912** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-50475** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **50475** RunNo: **66591**
Prep Date: **2/17/2020** Analysis Date: **2/17/2020** SeqNo: **2288913** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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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#: **2002624**

18-Feb-20

Client: ENSOLUM

Project: Oxnard 334S

Sample ID: **MB-50471** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **50471** RunNo: **66580**

Prep Date: **2/17/2020** Analysis Date: **2/17/2020** SeqNo: **2288223** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		81.3	55.1	146			

Sample ID: **LCS-50471** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **50471** RunNo: **66580**

Prep Date: **2/17/2020** Analysis Date: **2/17/2020** SeqNo: **2288224** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.4	70	130			
Surr: DNOP	3.8		5.000		75.0	55.1	146			

Sample ID: **MB-50453** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **50453** RunNo: **66580**

Prep Date: **2/14/2020** Analysis Date: **2/17/2020** SeqNo: **2288580** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.6		10.00		85.7	55.1	146			

Sample ID: **LCS-50453** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **50453** RunNo: **66580**

Prep Date: **2/14/2020** Analysis Date: **2/17/2020** SeqNo: **2288581** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		82.4	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
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#: **2002624**

18-Feb-20

Client: ENSOLUM

Project: Oxnard 334S

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **G66590** RunNo: **66590**

Prep Date: Analysis Date: **2/17/2020** SeqNo: **2288638** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		82.7	66.6	105			

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **G66590** RunNo: **66590**

Prep Date: Analysis Date: **2/17/2020** SeqNo: **2288639** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.1	80	120			
Surr: BFB	960		1000		96.1	66.6	105			

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#: **2002624**

18-Feb-20

Client: ENSOLUM

Project: Oxnard 334S

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B66590**	RunNo: **66590**
Prep Date:	Analysis Date: **2/17/2020**	SeqNo: **2288656** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.1	80	120			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B66590**	RunNo: **66590**
Prep Date:	Analysis Date: **2/17/2020**	SeqNo: **2288657** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	80	120			
Toluene	0.98	0.050	1.000	0	98.0	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.6	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	80	120			

Sample ID: **mb-50435**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **50435**	RunNo: **66590**
Prep Date: **2/13/2020**	Analysis Date: **2/17/2020**	SeqNo: **2288662** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	80	120			

Sample ID: **lcs-50435**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **50435**	RunNo: **66590**
Prep Date: **2/13/2020**	Analysis Date: **2/17/2020**	SeqNo: **2288663** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		89.9	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

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: **ENSOLUM AZTEC** Work Order Number: **2002624** RcptNo: **1**

Received By: **Erin Melendrez** **2/15/2020 12:35:00 PM**

Completed By: **Erin Melendrez** **2/15/2020 2:09:12 PM**

Reviewed By: LB 2/17/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: ENM 2/15/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good				

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: 10 Da
☐ Standard ☒ Rush 2-17-20

Project Name: Oxnard 334 S

Project #:

Project Manager: K Summers

Sampler: C D Apodaca

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.5+0.2(CF)=4.7°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2002624	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4, SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
2/14/20	1000	S	S-9	1 4oz Jar	Cool	-001	X		X					X								

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
2/14/20	1402		Chris Walt Courier	2/14/20	1401
2/14/20	1744	Christian Waeles		2/15/20	1235

Remarks: PM Tom Long
Pay Key RB21200
AFE # N46094

Sam Pay

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

ENSOLUM

APPENDIX G

Regulatory Correspondence

From: Long, Thomas
To: "Smith, Cory, EMNRD (Cory.Smith@state.nm.us)"; kwchristesen@blm.gov
Cc: Stone, Brian
Subject: FW: Oxnard #334S - UL C Section 8 T31N R8W; 36.91648, -107.69875
Date: Thursday, February 13, 2020 12:09:00 PM
Attachments: Oxnard 334S Site Map.PDF
Oxnard 3345.pdf
Oxnard 3345 data.pdf
Rpt_2002406_Oxnard_334S_Final_v1.pdf

Cory/Kenneth,

Please find the attached site sketch and lab reports for the Oxnard #334s excavation. One sample (S-3) exceeds NMOCD Tier I remediation standards. Enterprise will excavate additional soil in this area and resample. Enterprise anticipates collecting the soil sample on tomorrow, February 14, 2020 at 10:00 a.m. If you have any question, please call or email.

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

Enterprise Products

From: Long, Thomas
Sent: Friday, February 7, 2020 1:28 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: Oxnard #334S - UL C Section 8 T31N R8W; 36.91648, -107.69875

Cory/Kenneth,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis at the Oxnard 334S excavation on Monday, February 10, 2020 at 10:00 a.m. If you have any questions, please call or email.

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

tjlong@eprod.com

From: Long, Thomas
Sent: Friday, January 17, 2020 3:29 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; kwchristesen@blm.gov; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Oxnard #334S - UL C Section 8 T31N R8W; 36.91648, -107.69875

Cory/Kenneth,

This email is notification that Enterprise had a release of natural gas on the Oxnard #334S. No liquids were observed on the ground surface. The release is located in a wash (blue line on a USGS Topo). The pipeline is being isolated, depressurized, locked out and tagged out. The release is located at UL C Section 8 T31N R8W; 36.91648, -107.69875. If you have any questions, please call or email.

I accidently hit the send button before finishing the last email. Please disregard.

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

From: Long, Thomas
Sent: Friday, January 17, 2020 3:26 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; kwchristesen@blm.gov; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Oxnard #334S - UL C Section 8 T31N R8W; 36.91648, -107.69875

Cory/Kenneth,

This email is notification that Enterprise has a release of natural gas on the Oxnard #334S. No liquids were observed on the gorund surface. The release is located in a

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

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 PO Box 4324 Houston, TX 77210	241602
	Action Number: 10209
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/16/2022