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

report is included with this "Final." C-141.

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	NCS1916854049
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party: Ente	rprise Field Ser	vices, LLC	OGRID: 151618				
Contact Nam	e: Thomas	Long		Contact Telephone: 505-599-2286				
Contact emai	l:tjlong@ep	orod.com		Incident #	(assigned by OCD): NCS1916854049			
Contact mail	ing address:	614 Reilly Ave,	Farmington, NM					
			Location o	f Release S	ource			
Latitude 36.9	1645		Longitude <u>-10′</u>	7.69799	(NAD 83 in decimal degrees to 5 decimal plac			
Site Name Oxnard #334S Pipeline				Site Type	Natural Gas Gathering Pipeline			
Date Release Discovered: 5/3/2019				Serial Nun	nber (if applicable): NM 108646			
Unit Letter	Section	Township	Range	Cour	nty			
В	8	31N	8W	San J	uan			
	Materia	l(s) Released (Select al	Nature and		Release justification for the volumes provided below)			
Crude Oil		Volume Release	d (bbls)	•	Volume Recovered (bbls)			
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)			
		Is the concentrat	ion of dissolved chlo>10,000 mg/l?	oride in the	☐ Yes ☐ No			
Condensa		Volume Release	d (bbls): 5-7 BBLS		Volume Recovered (bbls): None			
Matural Gas Volume Released (Mcf): 7.73 MCF			d (Mcf): 7.73 MCF		Volume Recovered (Mcf): None			
Other (describe) Volume/Weight Released (provide u				nits):	Volume/Weight Recovered (provide units)			
pipeline was determined th BTEX, 100 pp measured ap	isolated, denis release worder om TPH and proximately	epressurized, locke was required to be 600 ppm Chloride) 53 feet long by 2	ed out and tagged of remediated to the r repairs and reme feet wide by appro	out. There were most stringent N diation were com oximately 11 fee	ease of natural gas on the Oxnard #334S pipeline. The no fluids observed on the ground surface. Enterprise MOCD remediation standard (10 ppm Benzene, 50 ppm pleted on June 12, 2019. The final excavation dimensions t deep. Approximately 190 cubic yards of hydrocarbor Division approved land farm facility. A third party closure			

Form C-141 Page 2

State of New Mexico Oil Conservation Division

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

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.

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
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
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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. Eields Title: Director, Environmental Date: 10/28/19 email: jefields@eprod.com Telephone: (713) 381-6684
OCD Only Received by: OCD Date: 10/31/19
Received by. GOD
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:
Printed Name: Cory Title: Environmental Specalist



CLOSURE REPORT

Property:

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

September 30, 2019 Ensolum Project No. 05A1226057

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

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CLOSURE REPORT

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

Ensolum Project No. 05A1226057

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:	36.91649° North, 107.69862° 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 May 3, 2019, a release of natural gas was identified on the Oxnard #334S pipeline. Enterprise verified the release and subsequently isolated and locked the pipeline out of service. On May 4, 2019, Enterprise initiated activities to facilitate the repair of the pipeline and remediate petroleum hydrocarbon impact resulting from the release.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites 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.

- No water wells were identified within a one-half mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database.
- Four (4) cathodic-protection wells were identified within one-half mile of the Site. The shallowest
 water recorded for a cathodic well was 60 feet below grade surface (bgs) at the Blanco #8 MV (Unit



N, Sec 5 T31N R8W), which is approximately 0.4 miles from the Site. The closest cathodic well (Oxnard #1A (Unit C, Sec 8 T31N R8W)) records indicate a depth to water of 300 feet bgs, at approximately 0.1 miles from the Site. Records for the remaining cathodic wells (Blanco #330 (Unit N, Sec 5 T31N R8W)) and Oxnard #333 and Oxnard #3 (Unit H, Sec 8 T31N R8W)) within 0.5 miles of the Site indicate water depths of 80 feet bgs or greater.

- The Site is located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution or church.
- No springs, or private domestic fresh-water wells used by less than five (5) households for domestic or stock watering purposes were identified within 500 feet of the Site.
- No fresh-water wells or springs were identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- The Site is not located within an unstable area.
- The Site is not located within a 100-year floodplain.

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 CI B	600 mg/kg						
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg						
BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg						
Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg						

3.0 SOIL REMEDIATION ACTIVITIES

On May 4, 2019, Enterprise initiated activities to facilitate the repair of the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities OFT Construction, Inc. (OFT), provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

Enterprise Field Services, LLC Closure Report Oxnard #334S Pipeline Release September 30, 2019



The final excavation measured approximately 53 feet long and 25 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 11 feet bgs.

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

A total of approximately 190 cubic yards of petroleum hydrocarbon affected soils and weathered sandstone 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 B**. The excavation was backfilled with a combination of imported fill and the segregated, laboratory-confirmed, unaffected stockpiled soils associated with stockpiled soil sample SP-2 and was then contoured to surrounding grade.

Figure 3 is a map that identifies 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 C**.

4.0 SOIL SAMPLING PROGRAM

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

Ensolum's soil sampling program included the collection of 18 composite soil samples (S-1 through S-18), comprised of five (5) aliquots each, from the excavation for laboratory analysis. In addition, two (2) stockpiled soil samples (SP-1 and SP-2), consisting of five (5) aliquots each, 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 accessible area of the excavation. An excavator, operated by OFT, was utilized to obtain fresh aliquots from areas of the excavation that exceeded depths greater than six (6) feet bgs. The New Mexico EMNRD OCD provided verbal approval to proceed with the sampling event, although a New Mexico EMNRD OCD representative was not on-Site during the sampling activities.

First Sampling Event

The initial pipeline repair excavation was sampled during the first sampling event to evaluate petroleum hydrocarbon impact. Composite soil samples S-1 (0'-7.5'), S-2 (0'-7.5'), S-3 (0'-7.5'), S-4 (0'-6'), S-5 (0'-6'), and S-6 (0'-6') were collected from the sidewalls of the initial repair excavation. Composite soil samples S-7 (6.5'), S-8 (6.5'), and S-9 (6.5') were collected from the floor of the excavation. Analytical results from composite soil samples S-5 (sidewall) and S-8 (floor) from the initial repair excavation indicated New Mexico EMNRD OCD closure standard exceedances. In response to the data exceedances, the excavation was extended to remove petroleum hydrocarbon impact. Soils associated with composite soil samples S-5 and S-8 were removed by excavation and transported to the landfarm for disposal/remediation. Additionally, stockpiled soils associated with sample SP-2 were also transported to the landfarm for disposal/remediation.

Second Sampling Event

After the excavation was deepened and extended, a second sampling event was performed. Composite soil samples S-10 (0'-6'), S-11 (0'-9'), S-13 (6'-9') and S-14 (7.5' to 10.5') were collected from the sidewall and floor of the extended excavation to replace composite soil samples S-5 and S-8 which had exhibited closure standard exceedances and were removed by excavation. Composite soil samples S-12 (0'-9'), S-15 (0'-10.5'), and S-16 (0'-10.5') were collected from unaffected sidewalls in areas that had been extended to accommodate access to the deeper excavation. Subsequent analytical results from composite soil



sample S-13 indicated a combined TPH GRO/DRO/MRO New Mexico EMNRD OCD closure standard exceedance.

Third Sampling Event

The floor and short sidewalls beneath the pipeline were excavated and composite soil samples S-17 (9'-11') and S-18 (9'-11') were collected from the floor and sidewall of the extended excavation to replace previous floor and sidewall composite soil sample S-13 which had exhibited a closure standard exceedance and was removed by excavation and transported to landfarm for disposal/remediation.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) associated with the composite soil samples (S-1 through S-4, S-6, S-7, S-9 through S-12, S-14 through S-18 and SP-2) to the applicable New Mexico EMNRD OCD closure criteria. Soils associated with composite soil samples S-5, S-8, S-13 and SP-1 were transported to Envirotech landfarm for disposal/remediation and are not included in the following discussion.

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

Laboratory analytical results are summarized in Table 1 (Appendix D).



7.0 RECLAMATION AND RE-VEGETATION

The excavation was backfilled with a combination of imported fill and the segregated, laboratory-confirmed, unaffected stockpiled soils associated with stockpiled soil sample SP-2 and was then contoured to the surrounding grade. Enterprise will re-seed the Site with a BLM Farmington Field Office approved seeding mixture.

8.0 FINDINGS AND RECOMMENDATION

On May 3, 2019, a release of natural gas was identified on the Oxnard #334S pipeline. Enterprise verified the release and subsequently isolated and locked the pipeline out of service. On May 4, 2019, Enterprise initiated activities to facilitate the repair of the pipeline and remediate petroleum hydrocarbon impact resulting from the release.

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 Releases as guidance.
- A total of 20 composite soil samples were collected from the walls and floor of the final excavation and stockpiled soils for laboratory analysis. Based on soil laboratory analytical results, soils remaining in place do not exhibit COC concentrations above the New Mexico EMNRD OCD closure criteria.
- A total of approximately 190 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with a combination of imported fill and the segregated, laboratory-confirmed, unaffected stockpiled soils, 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 recommendations are based solely upon data available to Ensolum at the time of these services.

Enterprise Field Services, LLC Closure Report Oxnard #334S Pipeline Release September 30, 2019

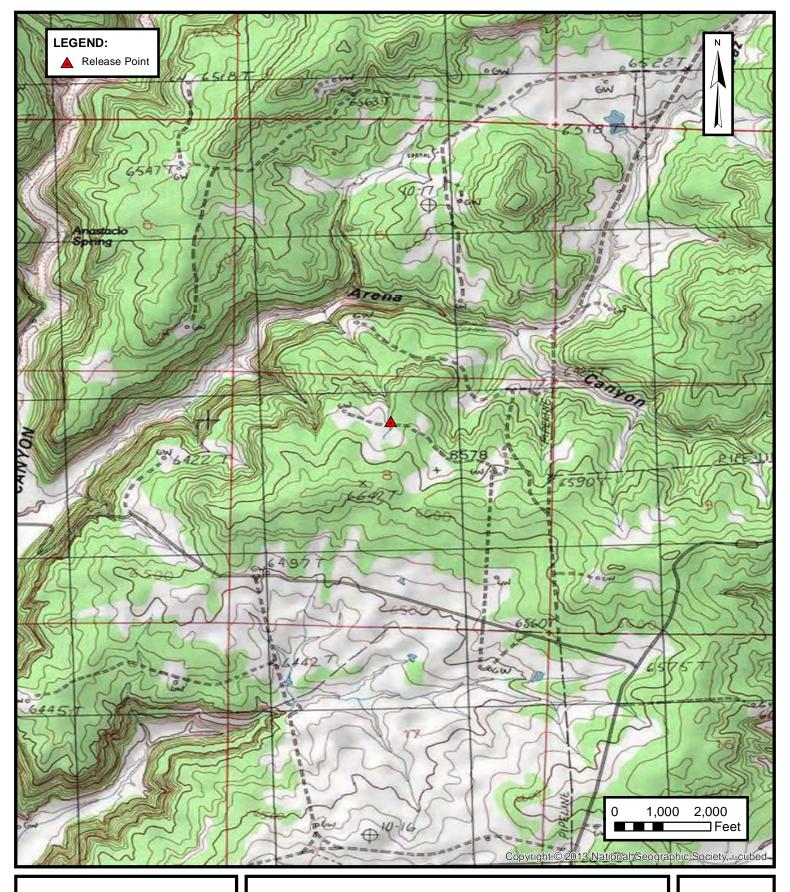


9.3 Reliance

This report has been prepared for the exclusive use of Enterprise Products Operating LLC, 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 Enterprise Products Operating LLC 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 Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

APPENDIX A

Figures



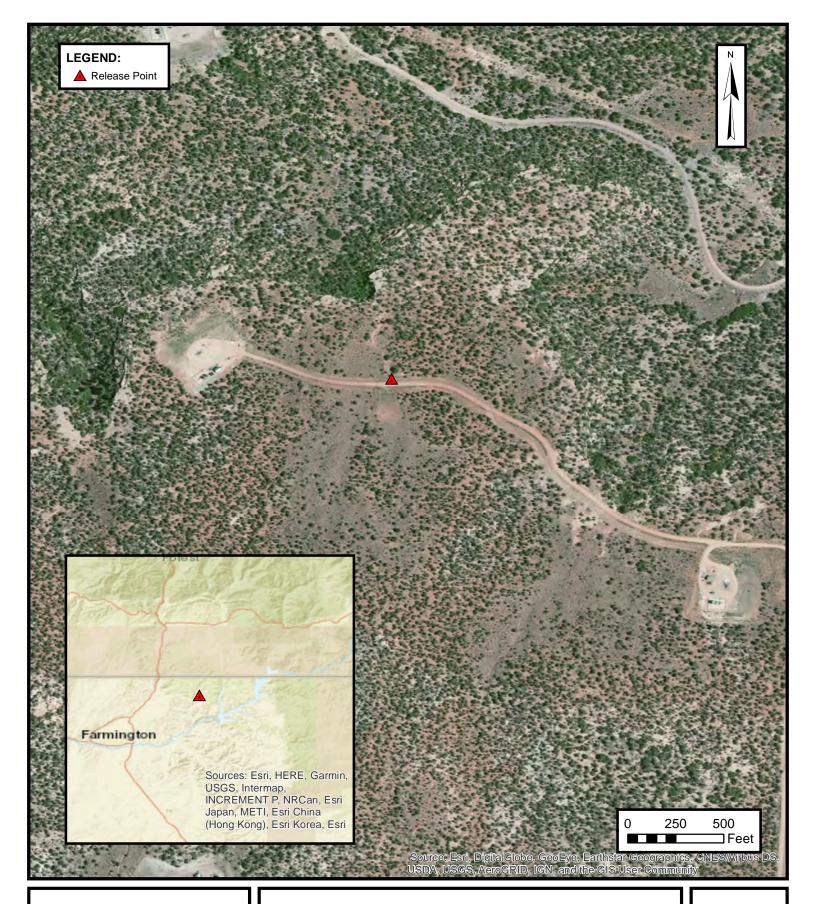


TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC OXNARD #334S PIPELINE RELEASE NW ¼, S8 T31N R8W, San Juan County, New Mexico 36.91649° N, 107.69862° W

PROJECT NUMBER: 05A1226057

FIGURE



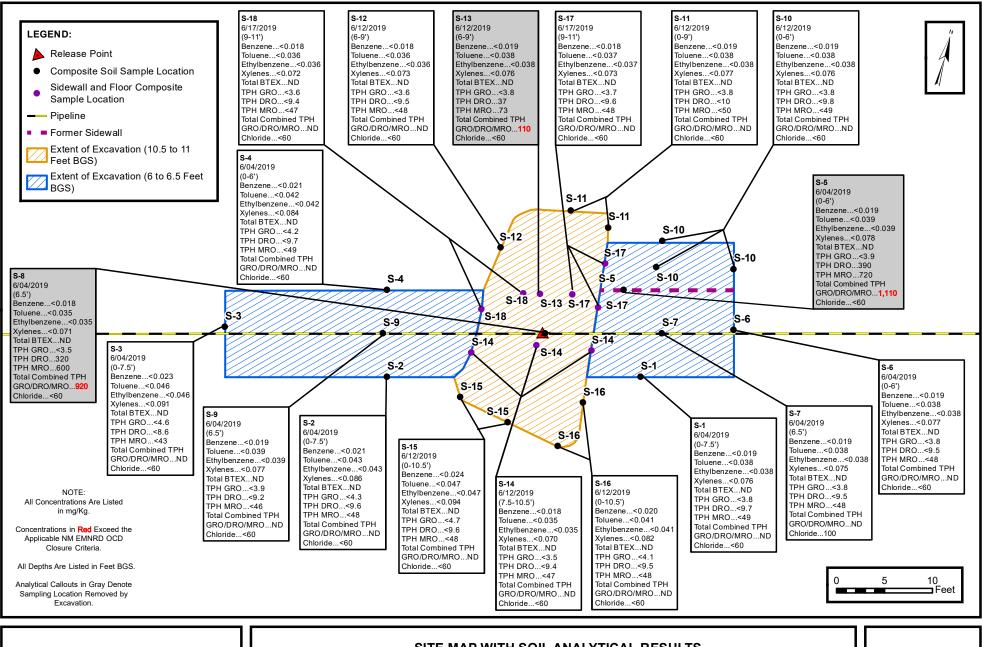


SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC OXNARD #334S PIPELINE RELEASE NW ¼, S8 T31N R8W, San Juan County, New Mexico 36.91649° N, 107.69862° W

PROJECT NUMBER: 05A1226057

FIGURE





SITE MAP WITH SOIL ANALYTICAL RESULTS

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

NW ¼, S8 131N R8W, San Juan County, New Mexi 36.91649° N, 107.69862° W

PROJECT NUMBER: 05A1226057

FIGURE

APPENDIX B

Executed C-138 Solid Waste Acceptance Form

<u>District 1</u>
1625 N. French Dr., Hobbs, NM 88240
<u>District II</u>
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 97057-1013 Oil Conservation Division 1220 South St. Francis Dr.

Form C-138 Revised 08/01/11

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

Santa Fe, NM 87505 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; 36.91645, -107.69799 June 2019
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)
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I, Thomas Long 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 6-10-19, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete Generator Signature the required testing/sign the Generator Waste Testing Certification. I,
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, OFT, Stan Horn, Raileys 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: Grass Crass Free TITLE: Enviro Management Facility Authorized Agent TELEPHONE NO.: 505-632-0615

APPENDIX C

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Oxnard #334S Pipeline Release Ensolum Project No. 05A1226057



Photograph 1

Photograph Description: View of initial excavation.



Photograph 2

Photograph Description: View of in-process excavation activities.



Photograph 3

Photograph Description: View of in-process excavation activities.



SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Oxnard #334S Pipeline Release Ensolum Project No. 05A1226057



Photograph 4

Photograph Description: View of in-process excavation activities.



Photograph 5

Photograph Description: View of the final excavation (middle section of the excavation).



Photograph 6

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



APPENDIX D

Table 1 – Soil Analytical Summary



TABLE 1 Oxnard #334S Pipeline Release SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	TPH	TPH	ТРН	Total Combined	Chloride
		C- Composite G - Grab	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO	DRO	MRO	TPH (GRO/DRO/MRO)	(mg/kg)
		0 0.00							(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Closure Criteria				10	NE	NE	NE	50				100	600
					Preliminar	y Composite Soil Sa	amples Removed I	by Excavation					
SP-1	06.04.19	С	Stockpile	<0.10	<0.20	<0.20	0.54	0.54	<20	110	180	290	<60
S-5	06.04.19	С	0 to 6	<0.019	<0.039	< 0.039	<0.078	ND	<3.9	390	720	1,110	<60
S-8	06.04.19	С	6.5	<0.018	<0.035	<0.035	<0.071	ND	<3.5	320	600	920	<60
S-13	06.12.19	С	6 to 9	<0.019	<0.038	<0.038	<0.076	ND	<3.8	37	73	110	<60
						Stockpile Comp	osite Soil Samples	3					
SP-2	06.04.19	С	Stockpile	<0.022	<0.044	<0.044	<0.088	ND	<4.4	<9.2	<46	ND	<60
					F	inal Confirmation C	omposite Soil San	nples					
S-1	06.04.19	С	0 to 7.5	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.7	<49	ND	<60
S-2	06.04.19	С	0 to 7.5	<0.021	<0.043	<0.043	<0.086	ND	<4.3	<9.6	<48	ND	<60
S-3	06.04.19	С	0 to 7.5	<0.023	<0.046	<0.046	<0.091	ND	<4.6	<8.6	<43	ND	<60
S-4	06.04.19	С	0 to 6	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<9.7	<49	ND	<60
S-6	06.04.19	С	0 to 6	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<9.5	<48	ND	<60
S-7	06.04.19	С	6.5	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<9.5	<48	ND	100
S-9	06.04.19	С	6.5	<0.019	<0.039	<0.039	<0.077	ND	<3.9	<9.2	<46	ND	<60
S-10	06.12.19	С	0 to 6	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.8	<49	ND	<60
S-11	06.12.19	С	0 to 9	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<10	<50	ND	<60
S-12	06.12.19	С	0 to 9	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<9.5	<48	ND	<60
S-14	06.12.19	С	7.5 to 10.5	<0.018	<0.035	<0.035	<0.070	ND	<3.5	<9.4	<47	ND	<60
S-15	06.12.19	С	0 to 10.5	<0.024	<0.047	<0.047	<0.094	ND	<4.7	<9.6	<48	ND	<60
S-16	06.12.19	С	0 to 10.5	<0.020	<0.041	<0.041	<0.082	ND	<4.1	<9.5	<48	ND	<60
S-17	06.17.19	С	9 to 11	<0.018	<0.037	<0.037	<0.073	ND	<3.7	<9.6	<48	ND	<60
S-18	06.17.19	С	9 to 11	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.4	<47	ND	<60

Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD OCD Closure Criteria

ND = Not Detected above the Practical Quantitation 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

APPENDIX E

Laboratory Data Sheets & Chain of Custody Documentation



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

June 07, 2019

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

FAX

RE: Oxnard 334S OrderNo.: 1906148

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/5/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1906148**

Date Reported: 6/7/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-1

Project: Oxnard 334S **Collection Date:** 6/4/2019 1:40:00 PM

Lab ID: 1906148-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/5/2019 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/5/2019 11:20:48 AM	45384
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	110	9.8	mg/Kg	1	6/5/2019 10:37:48 AM	45382
Motor Oil Range Organics (MRO)	180	49	mg/Kg	1	6/5/2019 10:37:48 AM	45382
Surr: DNOP	120	70-130	%Rec	1	6/5/2019 10:37:48 AM	45382
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	20	mg/Kg	5	6/5/2019 10:01:15 AM	GS60413
Surr: BFB	98.2	73.8-119	%Rec	5	6/5/2019 10:01:15 AM	GS60413
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.10	mg/Kg	5	6/5/2019 10:01:15 AM	BS60413
Toluene	ND	0.20	mg/Kg	5	6/5/2019 10:01:15 AM	BS60413
Ethylbenzene	ND	0.20	mg/Kg	5	6/5/2019 10:01:15 AM	BS60413
Xylenes, Total	0.54	0.40	mg/Kg	5	6/5/2019 10:01:15 AM	BS60413
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	5	6/5/2019 10:01:15 AM	BS60413

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

Qualifiers:

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

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

Page 1 of 6

Lab Order **1906148**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2019

CLIENT: ENSOLUM Client Sample ID: SP-2

Project: Oxnard 334S **Collection Date:** 6/4/2019 1:45:00 PM

Lab ID: 1906148-002 **Matrix:** MEOH (SOIL) **Received Date:** 6/5/2019 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/5/2019 11:33:12 AM	45384
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	6/5/2019 10:59:48 AM	45382
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/5/2019 10:59:48 AM	45382
Surr: DNOP	114	70-130	%Rec	1	6/5/2019 10:59:48 AM	45382
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	6/5/2019 10:24:40 AM	GS60410
Surr: BFB	89.2	73.8-119	%Rec	1	6/5/2019 10:24:40 AM	GS60413
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.022	mg/Kg	1	6/5/2019 10:24:40 AM	BS60413
Toluene	ND	0.044	mg/Kg	1	6/5/2019 10:24:40 AM	BS60413
Ethylbenzene	ND	0.044	mg/Kg	1	6/5/2019 10:24:40 AM	BS60413
Xylenes, Total	ND	0.088	mg/Kg	1	6/5/2019 10:24:40 AM	BS60413
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	6/5/2019 10:24:40 AM	BS60413

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

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

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906148**

07-Jun-19

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: MB-45384 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 45384 RunNo: 60433

Prep Date: 6/5/2019 Analysis Date: 6/5/2019 SeqNo: 2043901 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-45384 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 45384 RunNo: 60433

Prep Date: 6/5/2019 Analysis Date: 6/5/2019 SeqNo: 2043902 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.0 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

Hall Environmental Analysis Laboratory, Inc.

1000

1000

WO#: **1906148**

07-Jun-19

Client: ENSOL	UM								
Project: Oxnard:	334S								
Sample ID: RB	SampType: N	IBLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	Batch ID: G	F	RunNo: 6	0413					
Prep Date:	Analysis Date:	6/5/2019	5	SeqNo: 2	043525	Units: mg/h	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0)							
Surr: BFB	910	1000		91.2	73.8	119			
Sample ID: 2.5UG GRO LCS	G GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: GS60413 RunNo: 60413								
Prep Date:	Analysis Date:	6/5/2019	5	SeqNo: 2	043526	Units: mg/Kg			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25 5.0	25.00	0	102	80.1	123			
Surr: BFB	1200	1000		115	73.8	119			
Sample ID: MB-45359	SampType: N	IBLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS	Batch ID: 4	5359	F	RunNo: 6	0413				
Prep Date: 6/4/2019	Analysis Date:	6/5/2019	S	SeqNo: 2	043546	Units: %Re	С		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930	1000		92.8	73.8	119			
Sample ID: LCS-45359	SampType: L	cs	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCSS	Batch ID: 4	5359	F	RunNo: 6	0413				
Prep Date: 6/4/2019	Analysis Date:	6/5/2019	8	SeqNo: 2	043547	Units: %Re	С		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Surr: BFB

- 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

103

73.8

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906148**

07-Jun-19

Client:	ENSOLUM
Project:	Oxnard 334S

Sample ID: RB	SampType: MBLK		Tes							
Client ID: PBS	Batch ID: BS60413			F	RunNo: 6	0413				
Prep Date:	Analysis D	ate: 6/	5/2019	SeqNo: 2043568			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: 100NG BTEX LCS	SampT	ype: LC	S	Tes	8021B: Volat	iles					
Client ID: LCSS	Batch	Batch ID: BS60413 RunNo: 60413									
Prep Date:	Date: Analysis Date: 6/5/2019					043569	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	91.7	80	120				
Toluene	0.96	0.050	1.000	0	96.4	80	120				
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120				
Xylenes, Total	3.0	0.10	3.000	0	101	80	120				
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120				

Sample ID: 1906148-001AMS	SampT	уре: М	3	Tes	tCode: El	PA Method	8021B: Vola	tiles				
Client ID: SP-1	Batch	Batch ID: BS60413 RunNo: 60413										
Prep Date:	Analysis D	oate: 6/	5/2019	9	SeqNo: 2	043570	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	3.5	0.10	4.036	0	87.3	63.9	127					
Toluene	3.8	0.20	4.036	0.08515	91.2	69.9	131					
Ethylbenzene	3.9	0.20	4.036	0.07385	94.2	71	132					
Xylenes, Total	12	0.40	12.11	0.5400	96.5	71.8	131					
Surr: 4-Bromofluorobenzene	4.3		4.036		107	80	120					

Sample ID: 1906148-001AMSI	D SampTy	/pe: MS	iles									
Client ID: SP-1	Batch	Batch ID: BS60413				RunNo: 60413						
Prep Date:	Analysis Date: 6/5/2019 SeqNo: 2043571 Un							ts: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	3.6	0.10	4.036	0	88.7	63.9	127	1.51	20			
Toluene	3.8	0.20	4.036	0.08515	93.2	69.9	131	2.08	20			
Ethylbenzene	3.9	0.20	4.036	0.07385	95.8	71	132	1.65	20			
Xylenes, Total	12	0.40	12.11	0.5400	98.1	71.8	131	1.61	20			
Surr: 4-Bromofluorobenzene	4.5		4.036		111	80	120	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, Inc.

WO#: **1906148**

07-Jun-19

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: MB-45359 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: **45359** RunNo: **60413**

Prep Date: 6/4/2019 Analysis Date: 6/5/2019 SeqNo: 2043588 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.1 1.000 108 80 120

Sample ID: LCS-45359 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 45359 RunNo: 60413

Prep Date: 6/4/2019 Analysis Date: 6/5/2019 SeqNo: 2043589 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.2 1.000 121 80 120 S

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



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

CI	ient Name:	ENSOLUM	AZTEC	Work	Order Numl	ber: 1906	6148			RcptN	lo: 1
Re	ceived By:	Jevon Ca	mpisi	6/5/201	9 8:00:00 A	М		Juan Cany	bisi		
Со	mpleted By:	Leah Bac	a		9 8:56:49 A	М		Juan Cany Load Si	Baen		
Re	viewed By:	MB		6(5)	119			0.000.000.000.000			
Ch	ain of Cus	tody									
	Is Chain of Cu		lete?			Yes	V	No [Not Present	
2.	How was the	sample deliv	ered?								
	og In										
25	o g In Was an attem	pt made to o	cool the samp	les?		Yes	V	No [NA 🗌	
						, 55		2.20			
4. ١	Were all samp	les received	at a tempera	ture of >0° C	to 6.0°C	Yes	V	No [NA 🗆	
5	Sample(s) in p	oroner conta	iner(e)?			Yes		No [\neg		
· .	oampic(3) iii į	oroper conta	iner(s):			ies		NO L			
6. 8	Sufficient sam	ple volume f	or indicated te	est(s)?		Yes	V	No [
7. /	Are samples (except VOA	and ONG) pro	perly preserve	ed?	Yes	~	No [
8. ١	Nas preservat	tive added to	bottles?			Yes		No N		NA 🗌	
9. \	/OA vials hav	e zero heads	space?			Yes	П	No [No VOA Vials	
	Were any san			roken?		Yes		No 5	/		
							5:			# of preserved bottles checked	
	Does paperwo					Yes	V	No [for pH:	
	Note discrepa					V		No [7	(<2 Adjusted?	or>12 unless noted)
	s it clear what			n of Custody?		Yes Yes	V	No [_	, lajanaj.	
	Nere all holdir	ACT OF THE PARTY O					V	No [Checked by:	DAD 4/5/19
	If no, notify cu					,,					51.6 57.17
Spe	cial Handl	ing (if app	olicable)								
				with this order?)	Yes		No [NA 🗸	
	Person	Notified:			Date	T	************		month.		
	By Who	m:			Via:	eMa	ail 🔲	Phone	Fax	n Person	
	Regardi	ng:									
	Client Ir	structions:									
16.	Additional rer	marks:									
17.	Cooler Infor	mation									
	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ate	Signed By	y		
	1	3.1	Good	Yes			CACONIA COCONIA				
	2	2.4	Good	Yes						7	

#334S Www.hall	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	### TARP's. (8021) ### TARP's. (## Total Coll ## Tot	100/ XX	x x x 200- 1000 x x				Via: Lout 4/19 1651 Via: Courier Date Time SAINE DATY Via: Courier 6.5-19 8:00 SAINE DATY
Turn-Around Time: Standard Project Name:	Project #:	Project Manager Sampler: On Ice: # of Coolers: Cooler Templings	Container Pr	Hoe Jar	402.50r				Received by: Received by:
Client: Enselum, ULC Promiting Address: 1.00 c. 00.0 6.00 A.		email or Fax#: KSUmmers @ensetum_com Project Manager: KSummers QA/QC Package: □ Standard □ Level 4 (Full Validation) Sampler: PDecchil\ Accreditation: □ Az Compliance On Ice: Erres □ No Ice:	Cc Date Time Matrix Sample Name Ty	6/4/19 1340 5 50-1	6419 1345 S SP-2 1		***		Date: Time: Relinquished by: Out 19 1651 Date: Time: Relinquished by: Uut 19 1340



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

June 10, 2019

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Oxnard 334S OrderNo.: 1906146

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 6/5/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1906146

Date Reported: 6/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: Oxnard 334S **Collection Date:** 6/4/2019 12:50:00 PM

Lab ID: 1906146-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/5/2019 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/5/2019 11:45:36 AM	45384
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/5/2019 11:21:47 AM	45382
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/5/2019 11:21:47 AM	45382
Surr: DNOP	108	70-130	%Rec	1	6/5/2019 11:21:47 AM	45382
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	6/5/2019 9:33:16 AM	G60414
Surr: BFB	94.0	73.8-119	%Rec	1	6/5/2019 9:33:16 AM	G60414
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.019	mg/Kg	1	6/5/2019 9:33:16 AM	B60414
Toluene	ND	0.038	mg/Kg	1	6/5/2019 9:33:16 AM	B60414
Ethylbenzene	ND	0.038	mg/Kg	1	6/5/2019 9:33:16 AM	B60414
Xylenes, Total	ND	0.076	mg/Kg	1	6/5/2019 9:33:16 AM	B60414
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	6/5/2019 9:33:16 AM	B60414

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

- 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

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Lab Order **1906146**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/10/2019

CLIENT: ENSOLUM Client Sample ID: S-2

 Project:
 Oxnard 334S
 Collection Date: 6/4/2019 12:55:00 PM

 Lab ID:
 1906146-002
 Matrix: MEOH (SOIL)
 Received Date: 6/5/2019 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/5/2019 11:58:01 AM	45384
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/5/2019 11:43:53 AM	45382
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/5/2019 11:43:53 AM	45382
Surr: DNOP	119	70-130	%Rec	1	6/5/2019 11:43:53 AM	45382
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	6/5/2019 9:55:58 AM	G60414
Surr: BFB	92.0	73.8-119	%Rec	1	6/5/2019 9:55:58 AM	G60414
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.021	mg/Kg	1	6/5/2019 9:55:58 AM	B60414
Toluene	ND	0.043	mg/Kg	1	6/5/2019 9:55:58 AM	B60414
Ethylbenzene	ND	0.043	mg/Kg	1	6/5/2019 9:55:58 AM	B60414
Xylenes, Total	ND	0.086	mg/Kg	1	6/5/2019 9:55:58 AM	B60414
Surr: 4-Bromofluorobenzene	99.9	80-120	%Rec	1	6/5/2019 9:55:58 AM	B60414

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

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Received Date: 6/5/2019 8:00:00 AM

Lab Order **1906146**

Date Reported: 6/10/2019

6/5/2019 10:18:35 AM

G60414

B60414

B60414

B60414

B60414

B60414

Analyst: NSB

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

Matrix: MEOH (SOIL)

Project: Oxnard 334S **Collection Date:** 6/4/2019 1:00:00 PM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 60 mg/Kg 20 6/5/2019 12:10:26 PM 45384 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 8.6 mg/Kg 6/5/2019 12:06:05 PM Motor Oil Range Organics (MRO) ND 6/5/2019 12:06:05 PM 43 mg/Kg 1 45382 Surr: DNOP 110 6/5/2019 12:06:05 PM 45382 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 6/5/2019 10:18:35 AM G60414 4.6 mg/Kg 1

73.8-119

0.023

0.046

0.046

0.091

80-120

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

92.6

ND

ND

ND

ND

100

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

Qualifiers:

Lab ID:

Surr: BFB

Ethylbenzene

Xylenes, Total

Benzene Toluene 1906146-003

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

- 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

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Lab Order **1906146**

Date Reported: 6/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-4

 Project:
 Oxnard 334S
 Collection Date: 6/4/2019 1:05:00 PM

 Lab ID:
 1906146-004
 Matrix: MEOH (SOIL)
 Received Date: 6/5/2019 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/5/2019 12:22:50 PM	45384
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/5/2019 12:42:50 PM	45382
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/5/2019 12:42:50 PM	45382
Surr: DNOP	112	70-130	%Rec	1	6/5/2019 12:42:50 PM	45382
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	6/5/2019 10:41:15 AM	G60414
Surr: BFB	94.3	73.8-119	%Rec	1	6/5/2019 10:41:15 AM	G60414
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.021	mg/Kg	1	6/5/2019 10:41:15 AM	B60414
Toluene	ND	0.042	mg/Kg	1	6/5/2019 10:41:15 AM	B60414
Ethylbenzene	ND	0.042	mg/Kg	1	6/5/2019 10:41:15 AM	B60414
Xylenes, Total	ND	0.084	mg/Kg	1	6/5/2019 10:41:15 AM	B60414
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	6/5/2019 10:41:15 AM	B60414

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

- 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

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Lab Order **1906146**Date Reported: **6/10/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-5

 Project:
 Oxnard 334S
 Collection Date: 6/4/2019 1:10:00 PM

 Lab ID:
 1906146-005
 Matrix: MEOH (SOIL)
 Received Date: 6/5/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	smb
Chloride	ND	60		mg/Kg	20	6/5/2019 12:35:15 PM	45384
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	390	9.2		mg/Kg	1	6/5/2019 1:04:45 PM	45382
Motor Oil Range Organics (MRO)	720	46		mg/Kg	1	6/5/2019 1:04:45 PM	45382
Surr: DNOP	138	70-130	S	%Rec	1	6/5/2019 1:04:45 PM	45382
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	6/5/2019 11:04:02 AM	G60414
Surr: BFB	93.9	73.8-119		%Rec	1	6/5/2019 11:04:02 AM	G60414
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.019		mg/Kg	1	6/5/2019 11:04:02 AM	B60414
Toluene	ND	0.039		mg/Kg	1	6/5/2019 11:04:02 AM	B60414
Ethylbenzene	ND	0.039		mg/Kg	1	6/5/2019 11:04:02 AM	B60414
Xylenes, Total	ND	0.078		mg/Kg	1	6/5/2019 11:04:02 AM	B60414
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/5/2019 11:04:02 AM	B60414

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

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Lab Order 1906146

Date Reported: 6/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-6

 Project:
 Oxnard 334S
 Collection Date: 6/4/2019 1:15:00 PM

 Lab ID:
 1906146-006
 Matrix: MEOH (SOIL)
 Received Date: 6/5/2019 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 60 mg/Kg 20 6/5/2019 1:12:28 PM 45384 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.5 mg/Kg 6/5/2019 12:47:46 PM Motor Oil Range Organics (MRO) ND 6/5/2019 12:47:46 PM 48 mg/Kg 1 45382 Surr: DNOP 119 %Rec 6/5/2019 12:47:46 PM 45382 70-130 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 6/5/2019 11:26:42 AM G60414 3.8 mg/Kg 1 Surr: BFB 92.9 73.8-119 %Rec 6/5/2019 11:26:42 AM G60414 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.019 6/5/2019 11:26:42 AM B60414 Benzene mg/Kg Toluene ND 0.038 mg/Kg 6/5/2019 11:26:42 AM B60414 Ethylbenzene ND 0.038 mg/Kg 1 6/5/2019 11:26:42 AM B60414 Xylenes, Total ND 0.077 mg/Kg 6/5/2019 11:26:42 AM B60414 6/5/2019 11:26:42 AM Surr: 4-Bromofluorobenzene B60414 99.6 80-120 %Rec

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

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Lab Order 1906146

Date Reported: 6/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-7

Collection Date: 6/4/2019 1:20:00 PM **Project:** Oxnard 334S 1906146-007 Matrix: MEOH (SOIL) **Received Date:** 6/5/2019 8:00:00 AM Lab ID:

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	100	60	mg/Kg	20	6/5/2019 1:24:52 PM	45384
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/5/2019 12:23:33 PM	45382
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/5/2019 12:23:33 PM	45382
Surr: DNOP	108	70-130	%Rec	1	6/5/2019 12:23:33 PM	45382
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	6/5/2019 11:49:19 AM	G60414
Surr: BFB	93.0	73.8-119	%Rec	1	6/5/2019 11:49:19 AM	G60414
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	6/5/2019 11:49:19 AM	B60414
Toluene	ND	0.038	mg/Kg	1	6/5/2019 11:49:19 AM	B60414
Ethylbenzene	ND	0.038	mg/Kg	1	6/5/2019 11:49:19 AM	B60414
Xylenes, Total	ND	0.075	mg/Kg	1	6/5/2019 11:49:19 AM	B60414
Surr: 4-Bromofluorobenzene	98.9	80-120	%Rec	1	6/5/2019 11:49:19 AM	B60414

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

Qualifiers:

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

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

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Lab Order **1906146**Date Reported: **6/10/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-8

 Project:
 Oxnard 334S
 Collection Date: 6/4/2019 1:25:00 PM

 Lab ID:
 1906146-008
 Matrix: MEOH (SOIL)
 Received Date: 6/5/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	ND	60		mg/Kg	20	6/5/2019 1:37:17 PM	45384
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	TOM
Diesel Range Organics (DRO)	320	10		mg/Kg	1	6/5/2019 11:59:15 AM	45382
Motor Oil Range Organics (MRO)	600	50		mg/Kg	1	6/5/2019 11:59:15 AM	45382
Surr: DNOP	137	70-130	S	%Rec	1	6/5/2019 11:59:15 AM	45382
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/5/2019 12:12:06 PM	G60414
Surr: BFB	96.1	73.8-119		%Rec	1	6/5/2019 12:12:06 PM	G60414
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.018		mg/Kg	1	6/5/2019 12:12:06 PM	B60414
Toluene	ND	0.035		mg/Kg	1	6/5/2019 12:12:06 PM	B60414
Ethylbenzene	ND	0.035		mg/Kg	1	6/5/2019 12:12:06 PM	B60414
Xylenes, Total	ND	0.071		mg/Kg	1	6/5/2019 12:12:06 PM	B60414
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	6/5/2019 12:12:06 PM	B60414

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

- 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

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Lab Order **1906146**

Date Reported: 6/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-9

Project: Oxnard 334S **Collection Date:** 6/4/2019 1:30:00 PM

Lab ID: 1906146-009 **Matrix:** MEOH (SOIL) **Received Date:** 6/5/2019 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/5/2019 1:49:41 PM	45384
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	ТОМ
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	6/5/2019 11:35:02 AM	45382
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/5/2019 11:35:02 AM	45382
Surr: DNOP	122	70-130	%Rec	1	6/5/2019 11:35:02 AM	45382
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	6/5/2019 12:34:45 PM	G60414
Surr: BFB	90.7	73.8-119	%Rec	1	6/5/2019 12:34:45 PM	G60414
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.019	mg/Kg	1	6/5/2019 12:34:45 PM	B60414
Toluene	ND	0.039	mg/Kg	1	6/5/2019 12:34:45 PM	B60414
Ethylbenzene	ND	0.039	mg/Kg	1	6/5/2019 12:34:45 PM	B60414
Xylenes, Total	ND	0.077	mg/Kg	1	6/5/2019 12:34:45 PM	B60414
Surr: 4-Bromofluorobenzene	95.8	80-120	%Rec	1	6/5/2019 12:34:45 PM	B60414

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1906146**

10-Jun-19

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: MB-45384 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 45384 RunNo: 60433

Prep Date: 6/5/2019 Analysis Date: 6/5/2019 SeqNo: 2043901 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-45384 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 45384 RunNo: 60433

Prep Date: 6/5/2019 Analysis Date: 6/5/2019 SeqNo: 2043902 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.0 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

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ENSOLUM

Client:

Hall Environmental Analysis Laboratory, Inc.

Batch ID: 45382

Analysis Date: 6/5/2019

10

49.90

4.990

Result

50

4.9

WO#: **1906146**

10-Jun-19

Project: Oxnard 3	34S									
Sample ID: LCS-45382	SampTy	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rango	e Organics	
Client ID: LCSS	Batch	ID: 45	382	F	RunNo: 6	0400				
Prep Date: 6/5/2019	Analysis Da	ate: 6/	5/2019	5	SeqNo: 2	042688	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	63.9	124			
Surr: DNOP	5.1		5.000		103	70	130			
Sample ID: MB-45382	SampTy	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rango	e Organics	
Client ID: PBS	Batch	ID: 45	382	F	RunNo: 6	0400				
Prep Date: 6/5/2019	Analysis Da	ate: 6/	5/2019	S	SeqNo: 2	042693	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		114	70	130			
Sample ID: 1906146-001AMS	SampTy	ype: M \$	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: S-1	Batch	ID: 45	382	F	RunNo: 6	0403				
Prep Date: 6/5/2019	Analysis Da	ate: 6/	5/2019	5	SeqNo: 2	043267	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.5	47.30	0	98.8	57	142			
Surr: DNOP	4.6		4.730		97.4	70	130			
Sample ID: 1906146-001AMSI	SampTy	ype: M \$	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	

Qualifiers:

Client ID: S-1

Analyte

Surr: DNOP

Prep Date: 6/5/2019

Diesel Range Organics (DRO)

- 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

RunNo: 60403

99.9

97.6

SPK value SPK Ref Val %REC LowLimit

SeqNo: 2043268

Units: mg/Kg

142

130

%RPD

6.37

0

RPDLimit

20

0

Qual

HighLimit

57

70

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ENSOLUM

Client:

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906146**

10-Jun-19

Project:	Oxnard 3	34S									
Sample ID:	RB	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: G 6	60414	R	RunNo: 60	0414				
Prep Date:		Analysis Da	ate: 6/	5/2019	S	SeqNo: 20	043607	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 950	5.0	1000		95.1	73.8	119			
Sample ID:	2.5UG GRO LCS	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: G6	60414	R	RunNo: 60	0414				
Prep Date:		Analysis Da	ate: 6/	5/2019	S	SeqNo: 20	043608	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	23	5.0	25.00	0	90.4	80.1	123			
Surr: BFB		980		1000		97.6	73.8	119			
Sample ID:	1906146-001AMS	SampTy	/pe: M \$	5	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	S-1	Batch	ID: G6	60414	R	RunNo: 60	0414				
Prep Date:		Analysis Da	ate: 6/	5/2019	S	SeqNo: 20	043610	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	18	3.8	19.10	0	92.8	69.1	142			
Surr: BFB		800		763.9		104	73.8	119			
Sample ID:	1906146-001AMSE	SampTy	/pe: M \$	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID:	S-1	Batch	ID: G 6	60414	R	RunNo: 60	0414				
Prep Date:		Analysis Da	ate: 6/	5/2019	S	SeqNo: 20	043612	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	17	3.8	19.10	0	91.0	69.1	142	2.05	20	
Surr: BFB		790		763.9		104	73.8	119	0	0	
Sample ID:	MB-45365	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID:	PBS	Batch	ID: 45	365	R	RunNo: 60	0414				
Prep Date:	6/4/2019	Analysis Da	ate: 6/	5/2019	S	SeqNo: 20	043621	Units: %Red			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		940		1000		93.7	73.8	119			
Sample ID:	LCS-45365	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 45	365	R	RunNo: 60	0414				
Prep Date:	6/4/2019	Analysis Da	ate: 6/	5/2019	S	SeqNo: 20	043623	Units: %Re	3		
i Top Date.		•									
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- 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, Inc.

WO#: **1906146**

10-Jun-19

Client:	ENSOLUM	
Project:	Oxnard 334S	

Sample ID: RB	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: B6	0414	F	RunNo: 6	0414				
Prep Date:	Analysis D	ate: 6/	5/2019	8	SeqNo: 2	043656	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: 100NG BTEX LCS	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: B6	0414	F	RunNo: 60	0414				
Prep Date:	Analysis D	ate: 6/	5/2019	5	SeqNo: 20	043657	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.7	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.4	80	120			
Xylenes, Total	2.5	0.10	3.000	0	81.8	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	80	120			

Sample ID: 1906146-002AMS	SampT	уре: М\$	5	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: S-2	Batcl	n ID: B6	0414	F	RunNo: 6	0414				
Prep Date:	Analysis D	oate: 6/	5/2019	S	SeqNo: 2	043658	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.021	0.8584	0	104	63.9	127			
Toluene	0.89	0.043	0.8584	0	103	69.9	131			
Ethylbenzene	0.87	0.043	0.8584	0	102	71	132			
Xylenes, Total	2.6	0.086	2.575	0	99.6	71.8	131			
Surr: 4-Bromofluorobenzene	0.92		0.8584		107	80	120			

Sample ID: 1906146-002AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: S-2	Batch	1D: B6	0414	F	RunNo: 6	0414				
Prep Date:	Analysis D	ate: 6/	5/2019	S	SeqNo: 2	043659	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.021	0.8584	0	102	63.9	127	2.47	20	
Toluene	0.88	0.043	0.8584	0	102	69.9	131	1.05	20	
Ethylbenzene	0.87	0.043	0.8584	0	101	71	132	0.873	20	
Xylenes, Total	2.5	0.086	2.575	0	98.1	71.8	131	1.48	20	
Surr: 4-Bromofluorobenzene	0.91		0.8584		106	80	120	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, Inc.

WO#: **1906146**

10-Jun-19

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: MB-45365 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: **45365** RunNo: **60414**

Prep Date: 6/4/2019 Analysis Date: 6/5/2019 SeqNo: 2043665 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.99 1.000 98.7 80 120

Sample ID: LCS-45365 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 45365 RunNo: 60414

Prep Date: 6/4/2019 Analysis Date: 6/5/2019 SeqNo: 2043666 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 105 80 120

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 14



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: 1906146 RcptNo: 1 Jun Campisi Last Baca Received By: Jevon Campisi 6/5/2019 8:00:00 AM Completed By: Leah Baca 6/5/2019 8:49:49 AM 6/5/19 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Log In 3. Was an attempt made to cool the samples? No 🗌 NA 🗌 Yes 🗸 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 Yes 🗸 Sample(s) in proper container(s)? Yes 🗸 No 🗌 No Sufficient sample volume for indicated test(s)? Yes 🗸 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗌 Yes No V 8. Was preservative added to bottles? NA 🗍 9. VOA vials have zero headspace? Yes No 🗌 No VOA Vials Yes 🗆 10. Were any sample containers received broken? No 🗸 # of preserved bottles checked No 🗌 11. Does paperwork match bottle labels? Yes 🗸 for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: DAD 4/5/19 Yes 🗸 No 🗌 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 No NA V 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 3.1 Good Yes 2 2.4 Good Yes

Chain	-of-Ci	Chain-of-Custody Record	Turn-Around Time:	Time:												
Client:	Strainer Will	Control Silver Tries tolers and the second			els]id		Ц		HALL	Z	VIR	O	ENVIRONMENTAL	E	AL	
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			Project Name:	OXUARE	#3343			\$	ww.hal	www.hallenvironmental.com	nment	al.con	_			
Mailing Addres	S: (000)	Mailing Address: (001052106 Carelo Suìto♠			A CONTRACTOR OF THE PERSON		901 H	4901 Hawkins NE -	NE -		nerque	e, NM	Albuquerque, NM 87109			
Aztec, NM	M 87	87410	Project #:		March 1970 and Towards and		Tel. 50	505-345-3975	3975	Fax	502	505-345-4107	107			
Phone #:	88				Control of the control		_		A	Analysis	s Request	uest				AND SH
email or Fax#:	KSUM	Ksummer densolum, com	Project Manag	ger: Ksummers	mes		(0	N. H. W.	A 11 14	†O		(Ju				
QA/QC Package:									CIA	S '*		ıəsq				
□ Standard		☐ Level 4 (Full Validation)							1100	ЬО		A\Jr				
Accreditation:	□ Az Cc	□ Az Compliance	Sampler:	Risechilly	My				170	10 ⁵			•		7	
□ NELAC	□ Other	A Section of Resemble 1 to 12	On Ice:	₽ Yes	_ +No					۱ '۱	(AC		53			
□ EDD (Type)			# of Coolers:	7									Pi			
			Cooler Temp(including CF):	including CF): 284	12.14+0								101			
			Container	Dracanyativa	= 3.1°c/2.4°c HEAL NO		94-1		d ah 3 A <i>F</i>			DO IE	W.			
Date Time	Matrix	Sample Name	#	Type	1906/46	3T8	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EDE		85e Cl' I	728)			
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6/4/19 1255	$\langle \rangle$	53	1 402 Jar	(00)	700-	×							~			
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6/4/19/1310	S	5-5	1 Yoz Jar	Cool	200-	\times		1 8		- 6-7		×	~			
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4/4/19 1320	9	5-7	1 Yoz Sar	100)	-00s	×						_				
JESU 19/19	\(\sigma\)	5-8	1 Yoz Jar	C00	-00k	×						^	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		- 0	
4/19 1330		59	1 Yez Jar	(000)	-000	$\times \times$		A		2 B		×				
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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 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 17, 2019

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Oxnard 334S OrderNo.: 1906658

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 6/13/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1906658**

Date Reported: 6/17/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-10

 Project:
 Oxnard 334S
 Collection Date: 6/12/2019 11:40:00 AM

 Lab ID:
 1906658-001
 Matrix: SOIL
 Received Date: 6/13/2019 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	6/13/2019 11:49:38 AM	45561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/13/2019 10:02:23 AM	45560
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/13/2019 10:02:23 AM	45560
Surr: DNOP	99.6	70-130	%Rec	1	6/13/2019 10:02:23 AM	45560
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	6/14/2019 9:38:49 AM	45546
Surr: BFB	96.6	73.8-119	%Rec	1	6/14/2019 9:38:49 AM	45546
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.019	mg/Kg	1	6/14/2019 9:38:49 AM	45546
Toluene	ND	0.038	mg/Kg	1	6/14/2019 9:38:49 AM	45546
Ethylbenzene	ND	0.038	mg/Kg	1	6/14/2019 9:38:49 AM	45546
Xylenes, Total	ND	0.076	mg/Kg	1	6/14/2019 9:38:49 AM	45546
Surr: 4-Bromofluorobenzene	99.2	80-120	%Rec	1	6/14/2019 9:38:49 AM	45546

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

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

Page 1 of 12

Lab Order 1906658

Date Reported: 6/17/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-11

 Project:
 Oxnard 334S
 Collection Date: 6/12/2019 11:45:00 AM

 Lab ID:
 1906658-002
 Matrix: SOIL
 Received Date: 6/13/2019 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	6/13/2019 12:02:03 PM	45561
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/13/2019 10:24:18 AM	45560
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/13/2019 10:24:18 AM	45560
Surr: DNOP	100	70-130	%Rec	1	6/13/2019 10:24:18 AM	45560
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	6/14/2019 10:02:24 AM	45546
Surr: BFB	95.9	73.8-119	%Rec	1	6/14/2019 10:02:24 AM	45546
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.019	mg/Kg	1	6/14/2019 10:02:24 AM	45546
Toluene	ND	0.038	mg/Kg	1	6/14/2019 10:02:24 AM	45546
Ethylbenzene	ND	0.038	mg/Kg	1	6/14/2019 10:02:24 AM	45546
Xylenes, Total	ND	0.077	mg/Kg	1	6/14/2019 10:02:24 AM	45546
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	6/14/2019 10:02:24 AM	45546

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

Qualifiers:

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

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

Page 2 of 12

Lab Order **1906658**

Date Reported: 6/17/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-12

 Project:
 Oxnard 334S
 Collection Date: 6/12/2019 11:50:00 AM

 Lab ID:
 1906658-003
 Matrix: SOIL
 Received Date: 6/13/2019 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	6/13/2019 12:14:28 PM	45561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/13/2019 10:46:24 AM	45560
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/13/2019 10:46:24 AM	45560
Surr: DNOP	103	70-130	%Rec	1	6/13/2019 10:46:24 AM	45560
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	6/14/2019 10:26:00 AM	45546
Surr: BFB	93.2	73.8-119	%Rec	1	6/14/2019 10:26:00 AM	45546
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.018	mg/Kg	1	6/14/2019 10:26:00 AM	45546
Toluene	ND	0.036	mg/Kg	1	6/14/2019 10:26:00 AM	45546
Ethylbenzene	ND	0.036	mg/Kg	1	6/14/2019 10:26:00 AM	45546
Xylenes, Total	ND	0.073	mg/Kg	1	6/14/2019 10:26:00 AM	45546
Surr: 4-Bromofluorobenzene	95.6	80-120	%Rec	1	6/14/2019 10:26:00 AM	45546

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

- 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

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Lab Order 1906658

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/17/2019

CLIENT: ENSOLUM Client Sample ID: S-13

 Project:
 Oxnard 334S
 Collection Date: 6/12/2019 11:55:00 AM

 Lab ID:
 1906658-004
 Matrix: SOIL
 Received Date: 6/13/2019 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	6/13/2019 12:26:53 PM	45561
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	37	10	mg/Kg	1	6/13/2019 11:08:25 AM	45560
Motor Oil Range Organics (MRO)	73	50	mg/Kg	1	6/13/2019 11:08:25 AM	45560
Surr: DNOP	107	70-130	%Rec	1	6/13/2019 11:08:25 AM	45560
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	6/14/2019 10:49:35 AM	45546
Surr: BFB	94.7	73.8-119	%Rec	1	6/14/2019 10:49:35 AM	45546
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.019	mg/Kg	1	6/14/2019 10:49:35 AM	45546
Toluene	ND	0.038	mg/Kg	1	6/14/2019 10:49:35 AM	45546
Ethylbenzene	ND	0.038	mg/Kg	1	6/14/2019 10:49:35 AM	45546
Xylenes, Total	ND	0.076	mg/Kg	1	6/14/2019 10:49:35 AM	45546
Surr: 4-Bromofluorobenzene	97.1	80-120	%Rec	1	6/14/2019 10:49:35 AM	45546

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

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

Page 4 of 12

Lab Order 1906658

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/17/2019

CLIENT: ENSOLUM Client Sample ID: S-14

 Project:
 Oxnard 334S
 Collection Date: 6/12/2019 12:00:00 PM

 Lab ID:
 1906658-005
 Matrix: SOIL
 Received Date: 6/13/2019 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	6/13/2019 12:39:18 PM	45561
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/13/2019 11:30:59 AM	45560
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/13/2019 11:30:59 AM	45560
Surr: DNOP	101	70-130	%Rec	1	6/13/2019 11:30:59 AM	45560
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	6/14/2019 11:13:18 AM	45546
Surr: BFB	96.3	73.8-119	%Rec	1	6/14/2019 11:13:18 AM	45546
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.018	mg/Kg	1	6/14/2019 11:13:18 AM	45546
Toluene	ND	0.035	mg/Kg	1	6/14/2019 11:13:18 AM	45546
Ethylbenzene	ND	0.035	mg/Kg	1	6/14/2019 11:13:18 AM	45546
Xylenes, Total	ND	0.070	mg/Kg	1	6/14/2019 11:13:18 AM	45546
Surr: 4-Bromofluorobenzene	98.1	80-120	%Rec	1	6/14/2019 11:13:18 AM	45546

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

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

Page 5 of 12

Lab Order 1906658

Date Reported: 6/17/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-15

 Project:
 Oxnard 334S
 Collection Date: 6/12/2019 12:05:00 PM

 Lab ID:
 1906658-006
 Matrix: SOIL
 Received Date: 6/13/2019 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	6/13/2019 12:51:42 PM	45561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/13/2019 11:53:04 AM	45560
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/13/2019 11:53:04 AM	45560
Surr: DNOP	99.6	70-130	%Rec	1	6/13/2019 11:53:04 AM	45560
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/14/2019 11:37:01 AM	45546
Surr: BFB	98.0	73.8-119	%Rec	1	6/14/2019 11:37:01 AM	45546
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	6/14/2019 11:37:01 AM	45546
Toluene	ND	0.047	mg/Kg	1	6/14/2019 11:37:01 AM	45546
Ethylbenzene	ND	0.047	mg/Kg	1	6/14/2019 11:37:01 AM	45546
Xylenes, Total	ND	0.094	mg/Kg	1	6/14/2019 11:37:01 AM	45546
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	6/14/2019 11:37:01 AM	45546

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

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

Page 6 of 12

Lab Order 1906658

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/17/2019

CLIENT: ENSOLUM Client Sample ID: S-16

 Project:
 Oxnard 334S
 Collection Date: 6/12/2019 12:10:00 PM

 Lab ID:
 1906658-007
 Matrix: SOIL
 Received Date: 6/13/2019 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	6/13/2019 1:04:07 PM	45561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/13/2019 12:15:16 PM	45560
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/13/2019 12:15:16 PM	45560
Surr: DNOP	107	70-130	%Rec	1	6/13/2019 12:15:16 PM	45560
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	6/14/2019 12:00:46 PM	45546
Surr: BFB	102	73.8-119	%Rec	1	6/14/2019 12:00:46 PM	45546
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.020	mg/Kg	1	6/14/2019 12:00:46 PM	45546
Toluene	ND	0.041	mg/Kg	1	6/14/2019 12:00:46 PM	45546
Ethylbenzene	ND	0.041	mg/Kg	1	6/14/2019 12:00:46 PM	45546
Xylenes, Total	ND	0.082	mg/Kg	1	6/14/2019 12:00:46 PM	45546
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/14/2019 12:00:46 PM	45546

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

Qualifiers:

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

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

Page 7 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906658**

17-Jun-19

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: MB-45561 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 45561 RunNo: 60629

Prep Date: 6/13/2019 Analysis Date: 6/13/2019 SeqNo: 2052139 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-45561 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 45561 RunNo: 60629

Prep Date: 6/13/2019 Analysis Date: 6/13/2019 SeqNo: 2052140 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.7 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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ENSOLUM

Client:

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906658**

17-Jun-19

Project:	Oxnard 3.	34S									
Sample ID:	LCS-45560	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	ID: 45	560	F	lunNo: 6	0622				
Prep Date:	6/13/2019	Analysis Da	ate: 6/	13/2019	S	SeqNo: 2	051172	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	50	10	50.00	0	99.1	63.9	124			
Surr: DNOP		4.7		5.000		93.8	70	130			
Sample ID:	MB-45560	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 45	560	F	lunNo: 6	0622				
Prep Date:	6/13/2019	Analysis Da	ate: 6/	13/2019	S	SeqNo: 2	051173	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O		ND	10								
Motor Oil Range Surr: DNOP	Organics (MRO)	ND 10	50	10.00		101	70	130			
Oun. Bivoi		10		10.00		101	70	100			
·	1906658-001AMS	SampTy	•					8015M/D: Die	esel Range	e Organics	
Client ID:			ID: 45			lunNo: 6					
Prep Date:	6/13/2019	Analysis Da	ate: 6/	13/2019	S	SeqNo: 2	052479	Units: mg/K	(g		
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O Surr: DNOP	rganics (DRO)	47 4.4	9.6	48.08 4.808	0	98.5 91.3	57 70	142 130			
Juli. DNOI		4.4		4.000		91.5	70	130			
· ·	1906658-001AMSE							8015M/D: Die	esel Range	e Organics	
Client ID:			ID: 45			lunNo: 6					
Prep Date:	6/13/2019	Analysis Da	ate: 6/	13/2019	S	SeqNo: 2	052480	Units: mg/K	(g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O Surr: DNOP	rganics (DRO)	50 4.8	9.7	48.50 4.850	0	103 98.0	57 70	142 130	5.46 0	20 0	
Juli. DNOF		4.0		4.050		90.0	70	130	0	0	
Sample ID:	LCS-45543	SampTy	/pe: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:		Batch	ID: 45	543		lunNo: 6					
Prep Date:	6/12/2019	Analysis Da	ate: 6/	13/2019	S	SeqNo: 2	052482	Units: %Red	C		
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.8		5.000		95.4	70	130			
Sample ID:	MB-45543	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	ID: 45	543	F	lunNo: 6	0622				
Prep Date:	6/12/2019	Analysis Da	ate: 6/	13/2019	S	SeqNo: 2	052483	Units: %Red	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
										<u> </u>	

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

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Hall Environmental Analysis Laboratory, Inc.

11

WO#: **1906658**

17-Jun-19

Client: ENSOLUM
Project: Oxnard 334S

Surr: DNOP

Sample ID: MB-45543 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 45543 RunNo: 60622

Prep Date: 6/12/2019 Analysis Date: 6/13/2019 SeqNo: 2052483 Units: %Rec

10.00

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

70

113

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1906658**

17-Jun-19

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: MB-45546 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 45546 RunNo: 60653

Prep Date: 6/12/2019 Analysis Date: 6/14/2019 SeqNo: 2052830 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 950 1000 95.4 73.8 119

Sample ID: LCS-45546 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 45546 RunNo: 60653

1100

Prep Date: 6/12/2019 Analysis Date: 6/14/2019 SeqNo: 2052831 Units: mg/Kg

1000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 98.6 80.1 123

109

73.8

119

Qualifiers:

Surr: BFB

- 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, Inc.

WO#: 1906658

17-Jun-19

Client: ENSOLUM Project: Oxnard 334S

Sample ID: MB-45546 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 45546 RunNo: 60653

Prep Date: 6/12/2019 Analysis Date: 6/14/2019 SeqNo: 2052877 Units: mg/Kg

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

Benzene ND 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene ND Xylenes, Total 0.10

1.000 Surr: 4-Bromofluorobenzene 0.98 98.2 80 120

Sample ID: LCS-45546 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 45546 RunNo: 60653

Prep Date: 6/12/2019	Analysis D	Date: 6/	14/2019	S	SeqNo: 2	052878	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	1.1	0.050	1.000	0	114	80	120			
Ethylbenzene	1.2	0.050	1.000	0	115	80	120			
Xylenes, Total	3.5	0.10	3.000	0	117	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: **ENSOLUM AZTEC** Work Order Number: 1906658 RcptNo: 1 anne Stran Received By: **Anne Thorne** 6/13/2019 7:25:00 AM ame Am Completed By: **Anne Thorne** 6/13/2019 7:35:48 AM 6/13/19 Reviewed By: ENH Chain of Custody No \square 1. Is Chain of Custody complete? Yes 🗸 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 NA 🗍 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 Yes 🗹 No 🗀 Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? No 🗆 Yes 🔽 Νo 7. Are samples (except VOA and ONG) properly preserved? No 🗹 Yes 🗌 8. Was preservative added to bottles? Yes 🗌 9. VOA vials have zero headspace? No 🗌 No VOA Vials 🗹 Yes □ No 🔽 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗆 for pH: (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No ~ Nο 13. Is it clear what analyses were requested? Yes Yes 🗹 Shecked by: 14. Were all holding times able to be met? Nο (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 15. Was client notified of all discrepancies with this order? No 🗌 NA 🗸 Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: Custody Seals intent on Sal Jans/A Additional remarks: 17. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date 1.0

Good

Yes

Chain-of-Custody Record	Turn-Around	Time:		Š										
Client:	T		613/19			Ī	HALL		Z	202	ENVIRONMENTA		AL.	
Ensolumite	☐ Standard	Rush	100%			⋖	Z	YS	IS	3	ANALYSIS LABORATORY	ATC	JRY	
	rroject Name	Chroject Name:	777	2	**************************************	>	ww.he	www.hallenvironmental.com	onme	ntal.c	E C			
Mailing Address: 600S. P.O Grande SATP A) ; ;	n [901 H	4901 Hawkins NE		- Albu	duera	lle.	- Albuquerane, NM 87109	•		
Aztecinim stall	Project #: O	SALABAGOSA	4.	·	Tel. 5(Tel. 505-345-3975		Ľ	20 X	5-345	Fax 505-345-4107			
,	;							Analysis Request	is Re	senb	ı,			
email or Fax#: XSXXMMers@enselum.com		Project Manager: KSwmmers	mes		-(0			₹O		- <u></u> (‡L				
QA/QC Package:)				CI/	S ' [†]		ıəsc		**,		
☐ Standard ☐ Level 4 (Full Validation)	n)					1130	wer.	ОЧ		HA\Ju				
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	Cooler Temp	Including GE)												
	Motter La	Preservative	HEAL NO	/-/ ·X∃	Sag N	B (Met	-үd sH 	E, Br,	OV) 0:	iloO le	ن ماره			
Date Time Matrix Sample Name	#	Туре	1906 bs8											
6/a/19 S S-10	1402 Jan	(00)	102	×							×			
11-8 S Sul Malala	1 402 JMC	1001	202	×							×			
4/12/14 1150 S S-12	1402 Jar	(99)	202	× ×							>			
4/12/19 1155 S S-13	1 402 Jar	100)	Hr	×						<u> </u>	メ			
4/12/19/19/19/2001 S-14	1462 Jar	100/	205	×				<u> </u>			×			
4/12/11 1205 S S-15	1 40= jar	(00)	902	$\frac{\lambda}{\lambda}$							×	-,		
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yamb Samb	subcontracted to other ac	credited laboratories	s. This serves as notice of this	possibility	Any su	o-contrac	ted data	will be of	early not	ated on	the analytic	al report.		



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

June 19, 2019

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Oxnard 334S OrderNo.: 1906915

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/18/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1906915

Date Reported: 6/19/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-17

Collection Date: 6/17/2019 2:50:00 PM **Project:** Oxnard 334S 1906915-001 Matrix: SOIL **Received Date:** 6/18/2019 8:40:00 AM Lab ID:

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	6/18/2019 11:59:41 AM	45650
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/18/2019 11:05:33 AM	45649
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/18/2019 11:05:33 AM	45649
Surr: DNOP	152	70-130	S	%Rec	1	6/18/2019 11:05:33 AM	45649
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	6/18/2019 11:58:08 AM	G60728
Surr: BFB	93.2	73.8-119		%Rec	1	6/18/2019 11:58:08 AM	G60728
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.018		mg/Kg	1	6/18/2019 11:58:08 AM	B60728
Toluene	ND	0.037		mg/Kg	1	6/18/2019 11:58:08 AM	B60728
Ethylbenzene	ND	0.037		mg/Kg	1	6/18/2019 11:58:08 AM	B60728
Xylenes, Total	ND	0.073		mg/Kg	1	6/18/2019 11:58:08 AM	B60728
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/18/2019 11:58:08 AM	B60728

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

Qualifiers:

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

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

Lab Order **1906915**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/19/2019

CLIENT: ENSOLUM Client Sample ID: S-18

 Project:
 Oxnard 334S
 Collection Date: 6/17/2019 2:55:00 PM

 Lab ID:
 1906915-002
 Matrix: SOIL
 Received Date: 6/18/2019 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	6/18/2019 12:12:06 PM	45650
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/18/2019 11:29:59 AM	45649
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/18/2019 11:29:59 AM	45649
Surr: DNOP	160	70-130	S	%Rec	1	6/18/2019 11:29:59 AM	45649
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	6/18/2019 12:21:27 PM	G60728
Surr: BFB	93.1	73.8-119		%Rec	1	6/18/2019 12:21:27 PM	G60728
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.018		mg/Kg	1	6/18/2019 12:21:27 PM	B60728
Toluene	ND	0.036		mg/Kg	1	6/18/2019 12:21:27 PM	B60728
Ethylbenzene	ND	0.036		mg/Kg	1	6/18/2019 12:21:27 PM	B60728
Xylenes, Total	ND	0.072		mg/Kg	1	6/18/2019 12:21:27 PM	B60728
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/18/2019 12:21:27 PM	B60728

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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906915**

19-Jun-19

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: MB-45650 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **45650** RunNo: **60725**

Prep Date: 6/18/2019 Analysis Date: 6/18/2019 SeqNo: 2056354 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-45650 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 45650 RunNo: 60725

Prep Date: 6/18/2019 Analysis Date: 6/18/2019 SeqNo: 2056355 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.1 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

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906915**

19-Jun-19

Client: ENSOLUM
Project: Oxnard 334S

 Sample ID:
 LCS-45649
 SampType:
 LCS
 TestCode:
 EPA Method 8015M/D:
 Diesel Range Organics

 Client ID:
 LCSS
 Batch ID:
 45649
 RunNo:
 60712

 Prep Date:
 6/18/2019
 Analysis Date:
 6/18/2019
 SeqNo:
 2054899
 Units:
 mg/Kg

7 Top Bate. 9/19/2010 Pate. 9/19/2010 Bate. 11/19/2010 Bate. 11/19/2010 Bate. 11/19/2010 Bate. 11/19/2010 Bate.

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Diesel Range Organics (DRO) 10 0 44 50.00 88.7 63.9 124 Surr: DNOP 4.5 5.000 89.7 130

Sample ID: MB-45649 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 45649 RunNo: 60712
Prep Date: 6/18/2019 Analysis Date: 6/18/2019 SeqNo: 2054900 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 17 10.00 171 70 130 S

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, Inc.

WO#: **1906915**

19-Jun-19

Client: ENSOLUM
Project: Oxnard 334S

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

Client ID: PBS Batch ID: G60728 RunNo: 60728

Prep Date: Analysis Date: 6/18/2019 SeqNo: 2055379 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 940 1000 93.7 73.8 119

Sample ID: 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G60728 RunNo: 60728

1100

Prep Date: Analysis Date: 6/18/2019 SeqNo: 2055380 Units: mg/Kg

1000

LowLimit Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 5.0 25.00 0 91.6 80.1 123

108

73.8

119

Qualifiers:

Surr: BFB

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, Inc.

WO#: **1906915**

19-Jun-19

Client: ENSOLUM
Project: Oxnard 334S

Sample ID: RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: B60728 RunNo: 60728

Prep Date: Analysis Date: 6/18/2019 SeqNo: 2055390 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
 1.0
 1.000
 101
 80
 120

Sample ID: 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: B60728 RunNo: 60728

Prep Date:	Analysis [Date: 6/	18/2019	5	SeqNo: 2	055391	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.6	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	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 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: 1906915		RcptNo: 1
Received By: Jevon Campisi	6/18/2019 8:40:00 AM	Jum Compisi Anne St-	
Completed By: Anne Thorne	6/18/2019 9:33:46 AM	ane A.	-
Reviewed By: DAD 4/18/19			
Chain of Custody			
1. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present 🗌
2. How was the sample delivered?	<u>Courier</u>		
<u>Log In</u>	_		_
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 \square
9. VOA vials have zero headspace?	Yes	No 🗌	No VOA Vials ☑
10. Were any sample containers received broken?	Yes	No 🗹	# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	No 🗆	for pH: (<2) pr > 12 unless noted)
12. Are matrices correctly identified on Chain of Cu	ıstody? Yes ✓	No 🗆	Adjusted?
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 🗆	Checked by:
Special Handling (if applicable)			
15. Was client notified of all discrepancies with thi	s order? Yes	No 🗆	NA 🗹
Person Notified:	Date	CHAINE LEAD CONTRACT AND ACCORDANCE	
By Whom:	Via: eMail	Phone 🗌 Fax	☐ In Person
Regarding:			
Client Instructions:		·	
16. Additional remarks: Custudy	Seals intection s	oil Jaus	A 06/13/17
17. Cooler Information Cooler No Temp ℃ Condition Seal 1 2.0 Good Yes	Intact Seal No Seal Date	Signed By	

	HALL ENVIRONMENTAL ANALYSTS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Anal	†O	S'*C	Dd \ 03	S808\ (1.4()7.83 n ,20N	GR(GR(O))	oD(tho tho B3· Mei (A(Mi-	H:8019 81 Pes NB (Me NHs by F, Br F, Br Tol(VC	TTP 80.8 S CI, CI, CI, S S 20.8 S 20.	×	I X						IC	Sind Sande Day Visit Parland Open	f necessary, samples submitted to Hall Environmental may be subcortracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time:	© Standard (VRush 1000)	Project Name: OXnard 井33Uら		Project #: OSA12960S7					Sampler: ROCCAVIIM		duding CFD 3 70 3 10 10 10 10 10 10 10 10 10 10 10 10 10	Container Preservative HEAL No.	(90,915	1402 Sar (cos) /							Received by: Via: Date Time Re	Time	tracted to other accredited laboratories. This serves as notice of this por
Chain-of-Custody Record	Client:		Mailing Address: 1000 S 20 Count Sitt		Phone #:	email or Fax#: KSummers @ ensolum.com Project Manager: Ksummers	QA/QC Package:	☐ Standard ☐ Level 4 (Full Validation)	☐ Az Compliance				Date Time Matrix Sample Name	6/4/14 1450 S S-17	WITH 1455 3 3-18						Relinquished by:	Value: Reinquished by WWE IN	If necessary, samples submitted to Hall Environmental may be subcor