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

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

responsion.	Party: Ente	erprise Field Serv	OGRID:	RID: 151618			
Contact Nam	ontact Name: Thomas Long Contact Telephone: 505-599-2286						
Contact emai	l:tjlong@ej	prod.com		Incident	# (assigned by OCD): NVF1906555554		
Contact mail 87401	ing address:	614 Reilly Ave, I	Farmington, NN	1			
			Location 6	of Release S	Source		
atitude 36.4	31197		Longitude <u>-1</u>	107.442322	(NAD 83 in decimal degrees to 5 decimal places		
Site Name Ca	nyon Lar	go #147 Drip Tan	k	Site Type	Natural Gas Liquids Collection Tank		
Date Release	Release Discovered: 2/8/2019			Serial Nu	imber (if applicable): N/A		
Unit Letter	Section	Township	Range	Coı	unty		
D	2	25N	6W	Rio A	Arriba		
urface Owner	r: 🛛 State	Federal Tri	bal Private (N	ame: Nick Jaram	nillo)		
	_		Nature and		,		
	Materia	Volume Released		alculations or specif	ic justification for the volumes provided below)		
Crude Oil		V Olullic Ixcleased	(bbis)		Volume Recovered (bbls)		
Crude Oil					Volume Recovered (bbls) Volume Recovered (bbls)		
		Volume Released Is the concentration	(bbls) on of dissolved ch	loride in the	Volume Recovered (bbls) Volume Recovered (bbls) Yes No		
	Water	Volume Released Is the concentration produced water >	(bbls) on of dissolved ch		Volume Recovered (bbls)		
☐ Produced ☐ Condensa	Water	Volume Released Is the concentration produced water >	on of dissolved ch 10,000 mg/l? (bbls): 5-7 Barre		Volume Recovered (bbls)		

Cause of Release: On February 8, 2019, an Enterprise technician discovered a release of condensate on the Canyon Largo #147 Drip tank. An area of approximately 10 feet long by 10 feet wide was impacted by the released fluids. The release was a result of a cracked valve on the drip tank. The valve was repaired. Enterprise began remediation activities on February 13, 2019 and on February 14, 2019, Enterprise determined the release reportable per NMOCD regulation due to the volume of impacted subsurface soil. Remediation activities were completed on April 5, 2019. The final excavation dimensions measured approximately 34 feet long by 38 feet wide by ranging from approximately 0.5 to 8 feet deep. Approximately 302 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party closure report is included with this "Final." C-141.

Form C-141 Page 2

State of New Mexico Oil Conservation Division

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.

A scaled site and sampling diagram as described in 19.15	.29.11 NMAC
Photographs of the remediated site prior to backfill or ph must be notified 2 days prior to liner inspection)	notos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate	ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file of may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or refrestore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the Printed Name: Jon E. Fields Signature:	mplete to the best of my knowledge and understand that pursuant to OCD rules ertain release notifications and perform corrective actions for releases which se of a C-141 report by the OCD does not relieve the operator of liability difference contamination that pose a threat to groundwater, surface water, so of a C-141 report does not relieve the operator of responsibility for egulations. The responsible party acknowledges they must substantially be conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete. Title: Director, Environmental Date: 9/3/19
email: jefields@eprod.com	Telephone: (713) 381-6684
OCD Only	
Received by: OCD	Date: 9/6/19
remediate contamination that poses a threat to groundwater, surfar party of compliance with any other federal, state, or local laws a	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by:	Date: 9/10/19
Printed Name: Cory	Title: Environmental Specalist



CLOSURE REPORT

Property:

Canyon Largo 147 Drip Line Release NW ¼, S2 T25N R6W Rio Arriba County, New Mexico

August 8, 2019 Ensolum Project No. 05A1226044

Prepared for:

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

Prepared by:

Chad D'Aponti

Field Environmental Scientist

Ranee Deechilly

Environmental Scientist

Kyle Summers, CPG Sr. Project Manager

ummy

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CLOSURE REPORT

Canyon Largo 147 Drip Line Release NW ¼, S2 T25N R6W Rio Arriba County, New Mexico

Ensolum Project No. 05A1226044

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Canyon Largo 147 Drip Line Release (Site)
Location:	36.431197° North, 107.442322° West Northwest (NW) ¼ of Section 2, Township 25 North, Range 6 West Rio Arriba County, New Mexico
Property:	New Mexico State Land Office
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On February 8, 2019, a release of natural gas was identified at the Site. Enterprise verified the release and subsequently isolated and locked the drip line out of service. On February 13, 2019, Enterprise performed initial response activities by removing visibly impacted material from the ground surface. Further remediation activities were temporarily postponed due to adverse weather and ground conditions. On April 3, 2019, Enterprise resumed activities to remediate petroleum hydrocarbon impact resulting from the release.

The **Topographic Map** depicting the location of the Site is included as **Figure 1**, and the **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 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. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**.



- No water wells were identified within a one-half mile radius of the Site on the OSE Water Rights
 Reporting System (WRRS) database. Three (3) points-of-diversion (POD) (SJ 00885_7, SJ
 00885_3, and SJ 00201) were identified 0.6 to 0.8 miles from the Site, however SJ 00201 was the
 only POD with a recorded depth to water (500 feet below grade surface (bgs)).
- Three (3) cathodic-protection wells were identified within a mile of the Site. The shallowest water recorded within that distance was a 78 feet bgs "water seep" (located at a lower elevation) at the Canyon Largo Units #166 and #34 which is approximately 0.5 miles from the site. The closest cathodic-protection well (Canyon Largo Units #252 and #65 indicates a "water seep" at 85 feet bgs (approximately 0.46 miles from the site and at a higher elevation). The remaining nearby cathodic well (Canyon Largo Units #294 and #183) identifies depth to water at 100 feet bgs.
- The Site is not 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 f	or Soils Impacted by a Rel	ease
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
	Chloride	EPA 300.0 or SM4500 CI B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
51 to 100 feet	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 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 February 13, 2019, Enterprise initiated activities to remediate potential petroleum hydrocarbon impact resulting from the release. Due to adverse weather and ground conditions remediation activities were temporarily postponed, resuming on April 3, 2019. During the remediation and corrective action activities OFT Construction, Inc. provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 34 feet long and 38 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 8 feet bgs, with some areas as shallow as 0.5 feet bgs.

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

A total of approximately 302 cubic yards (cy) of petroleum hydrocarbon affected soils and 15 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance forms are provided in **Appendix C**. The excavation was backfilled with imported fill and 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 drip tank (**Appendix A**). Photographic documentation of the field activities is included in **Appendix D**.

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 10 composite soil samples (S-1 through S-9, and D-1), consisting of five (5) aliquots each, from the remediation area for laboratory analyses. A clean shovel was utilized to obtain fresh aliquots from each area of the excavation. The New Mexico EMNRD OCD provided verbal approval to proceed with the sampling event and were present for the second (final) sampling event on April 5, 2019.

First Sampling Event

Composite soil sample D-1 was collected at a pot-holed location beneath the drip line, prior to further excavation in that area, to evaluate the level of petroleum hydrocarbon impact. Composite soil sample S-3 was collected from a former excavation sidewall (0'-2') and was found to exceed the applicable New Mexico EMNRD OCD closure standards. Soils associated with composite soil samples D-1 and S-3 were removed during subsequent excavation activities and transported to the Envirotech landfarm for disposal/remediation. Composite samples S-1 (0'-2') and S-2 (0'-2') were collected from the west and north sidewalls, respectively, of the excavation. Composite sample S-4 (0'-0.5'), was collected from the south sidewall and a portion of the south floor of the excavation. Composite sample S-5 (2') was collected from the western floor of the excavation (portions of this floor area were later sloped to provide better access to the eastern portion of the excavation which had to be excavated deeper than the western portion).

Second Sampling Event

As a result of the closure standard exceedances identified by composite soil samples D-1 and S-3, the excavation was extended to the east and resampled. Composite soil samples S-6 (0'-8'), S-7 (0'-8'), and S-8 (0'-8') were collected from the sidewalls of the extended excavation, and composite soil sample S-9 (8') was collected from the floor of the extended excavation.

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 E**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix F**.

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) associated with the composite soil samples (S-1, S-2, and S-4 through S-9) to the applicable New Mexico EMNRD OCD closure criteria. Soil associated with composite soil samples S-3 and D-1 were removed by excavation and 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 at concentrations greater than the laboratory PQLs, which are less than the New Mexico EMNRD OCD closure criteria of 10 mg/kg.



- The laboratory analytical results for the composite soil samples collected from soils remaining in place indicate total BTEX concentrations ranging from less than the PQLs to 17 mg/kg (S-9), which do not exceed the New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil samples collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from less than the laboratory PQLs to 430 mg/kg (S-9), which do not exceed the applicable New Mexico EMNRD OCD closure criteria of 1,000 mg/kg.
- The laboratory analytical results for composite soil samples collected from soils remaining in place indicate combined TPH GRO/DRO/MRO concentrations ranging from less than the PQLs to 430 mg/kg (S-9), which do not exceed the applicable New Mexico EMNRD OCD closure criteria of 2,500 mg/kg.
- The laboratory analytical results for composite soil samples S-2 and S-5, collected from soils remaining in place, indicate chloride concentrations of 92 mg/kg and 90 mg/kg, respectively, which do not exceed the applicable New Mexico EMNRD OCD closure criteria of 10,000 mg/kg. The laboratory analytical results for the remaining composite soil samples collected from soils remaining in place indicate chloride is not present at concentrations greater than the laboratory PQLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10,000 mg/kg for chlorides.

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

7.0 RECLAMATION AND RE-VEGETATION

The excavation was backfilled with imported fill and then contoured to the surrounding grade. The area will continue to be utilized as a driving surface.

8.0 FINDINGS AND RECOMMENDATION

On February 8, 2019, a release of natural gas was identified at the Site. Enterprise verified the release and subsequently isolated and locked the drip line out of service. On February 13, 2019, Enterprise performed initial response activities by removing visibly impacted material from the ground surface. Further remediation activities were temporarily postponed due to adverse weather and ground conditions. On April 3, 2019, Enterprise resumed activities to 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 ten (10) composite soil samples were collected from the walls and floor of the excavation for laboratory analyses. Based on soil laboratory analytical results, soils remaining in place do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.
- A total of approximately 302 cy of petroleum hydrocarbon affected soils and 15 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with imported fill and 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). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

9.2 Additional Limitations

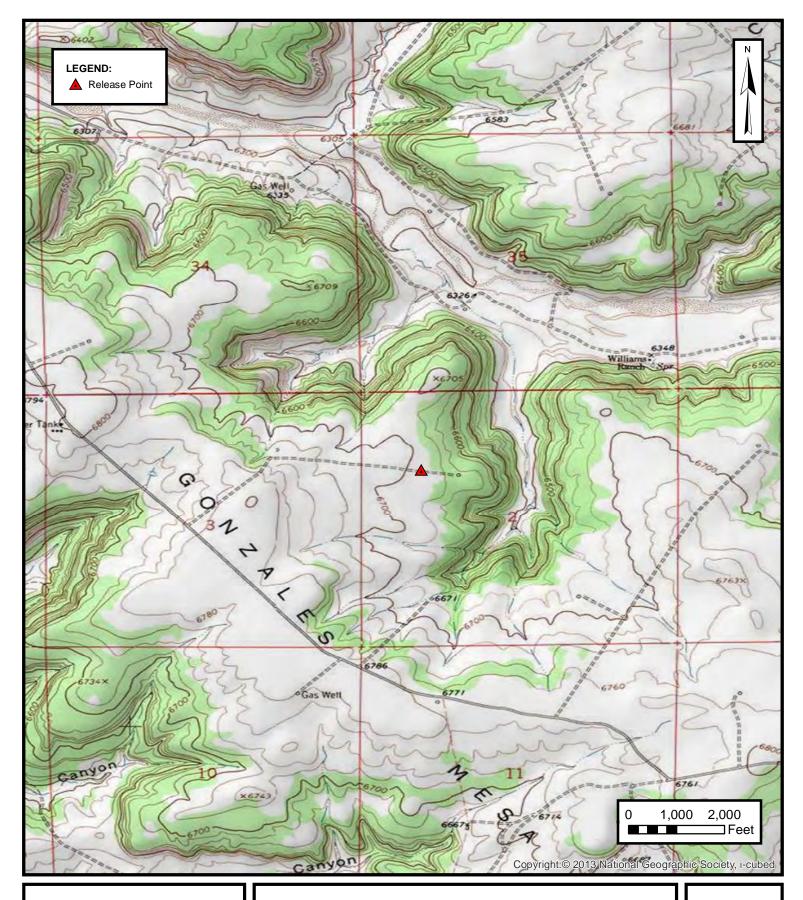
Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence 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.

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





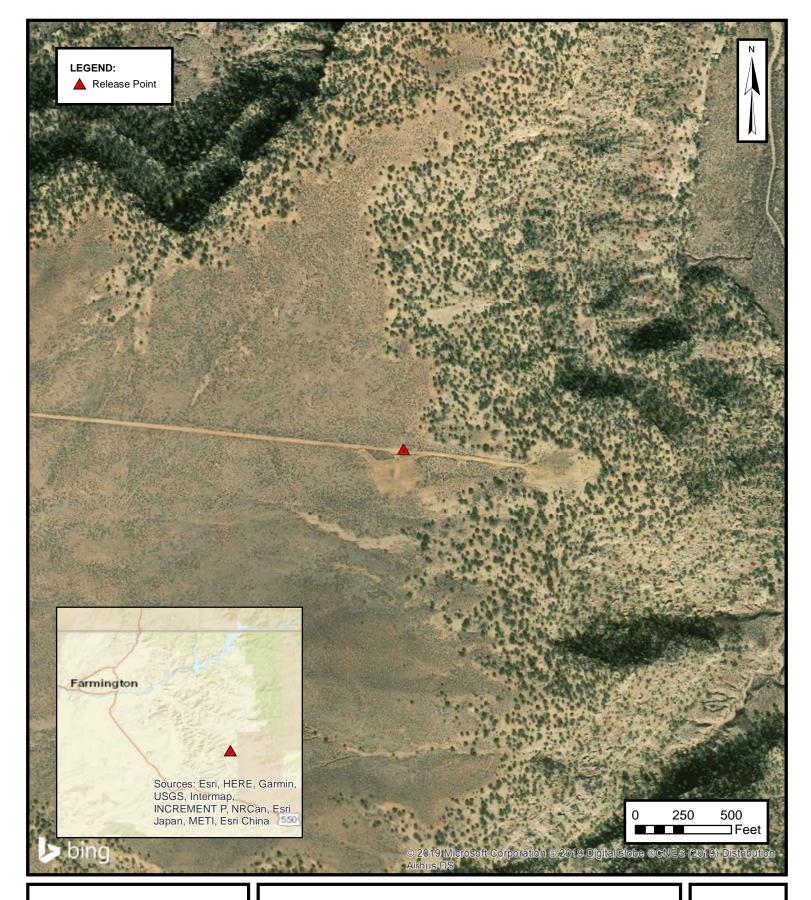
TOPOGRAPHIC MAP

ENTERPIRSE FIELD SERVICES, LLC CANYON LARGO 147 DRIP LINE RELEASE NW ¼, S2 T25N R6W, NMPM. Rio Arriba County, New Mexico 36.43116° N, 107.44232° W

PROJECT NUMBER: 05A1226042

FIGURE

1





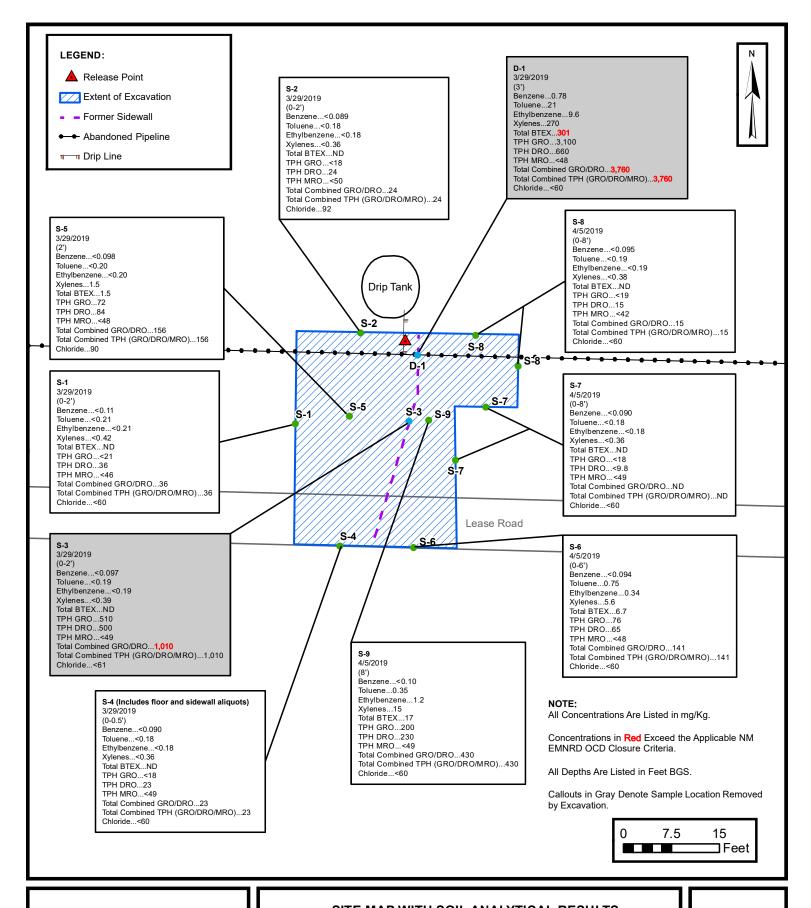
SITE VICINITY MAP

ENTERPIRSE FIELD SERVICES, LLC CANYON LARGO 147 DRIP LINE RELEASE NW ¼, S2 T25N R6W, NMPM. Rio Arriba County, New Mexico 36.43116° N, 107.44232° W

PROJECT NUMBER: 05A1226042

FIGURE

2





SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPIRSE FIELD SERVICES, LLC CANYON LARGO 147 DRIP LINE RELEASE NW ¼, S2 T25N R6W, NMPM. Rio Arriba County, New Mexico 36.43116° N, 107.44232° W

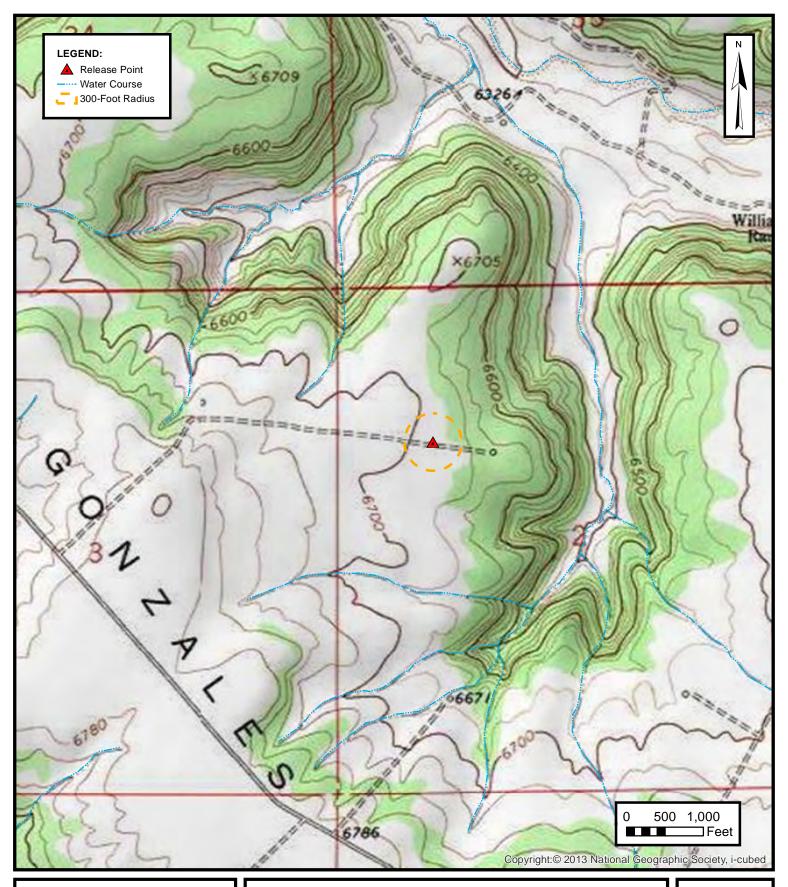
PROJECT NUMBER: 05A1226042

FIGURE

3

APPENDIX B

Siting Figures and Documentation





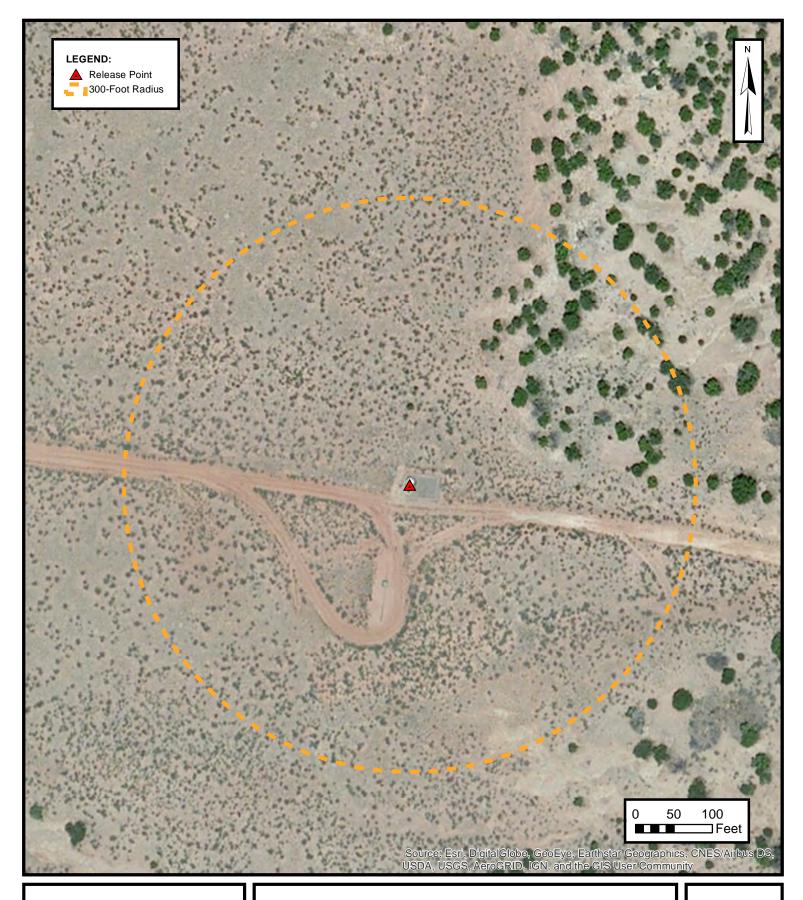
300-FOOT RADIUS WATERCOURSE AND DRAINAGE IDENTIFICATION

ENTERPIRSE FIELD SERVICES, LLC CANYON LARGO 147 DRIP LINE RELEASE NW ¼, S2 T25N R6W, NMPM. San Juan County, New Mexico 36.43116° N, 107.44232° W

PROJECT NUMBER: 05A1226042

FIGURE

Α





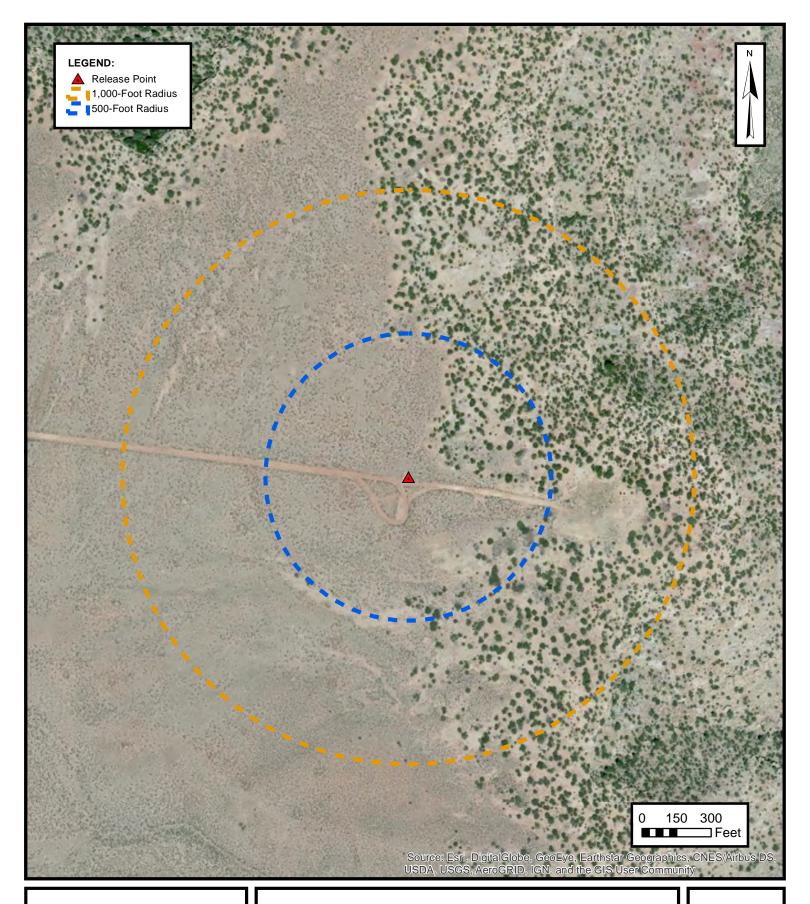
300-FOOT RADIUS OCCUPIED STRUCTURE IDENTIFICATION

ENTERPIRSE FIELD SERVICES, LLC CANYON LARGO 147 DRIP LINE RELEASE NW ¼, S2 T25N R6W, NMPM. San Juan County, New Mexico 36.43116° N, 107.44232° W

PROJECT NUMBER: 05A1226042

FIGURE

B





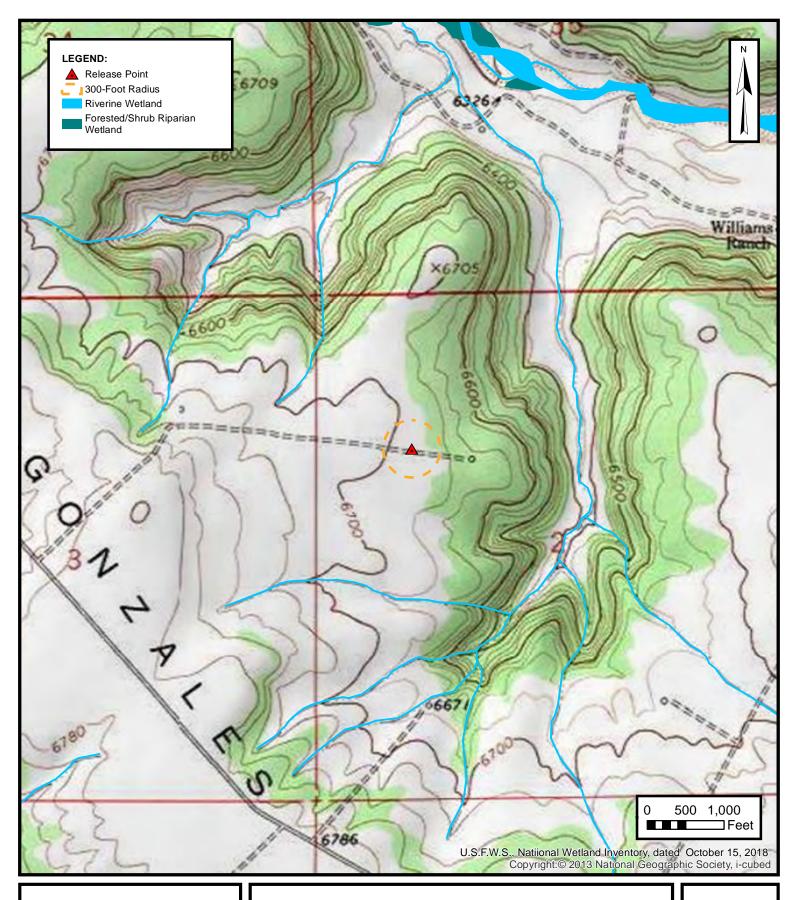
WATER WELL AND NATURAL SPRING LOCATION

ENTERPIRSE FIELD SERVICES, LLC CANYON LARGO 147 DRIP LINE RELEASE NW ¼, S2 T25N R6W, NMPM. San Juan County, New Mexico 36.43116° N, 107.44232° W

PROJECT NUMBER: 05A1226042

FIGURE

C





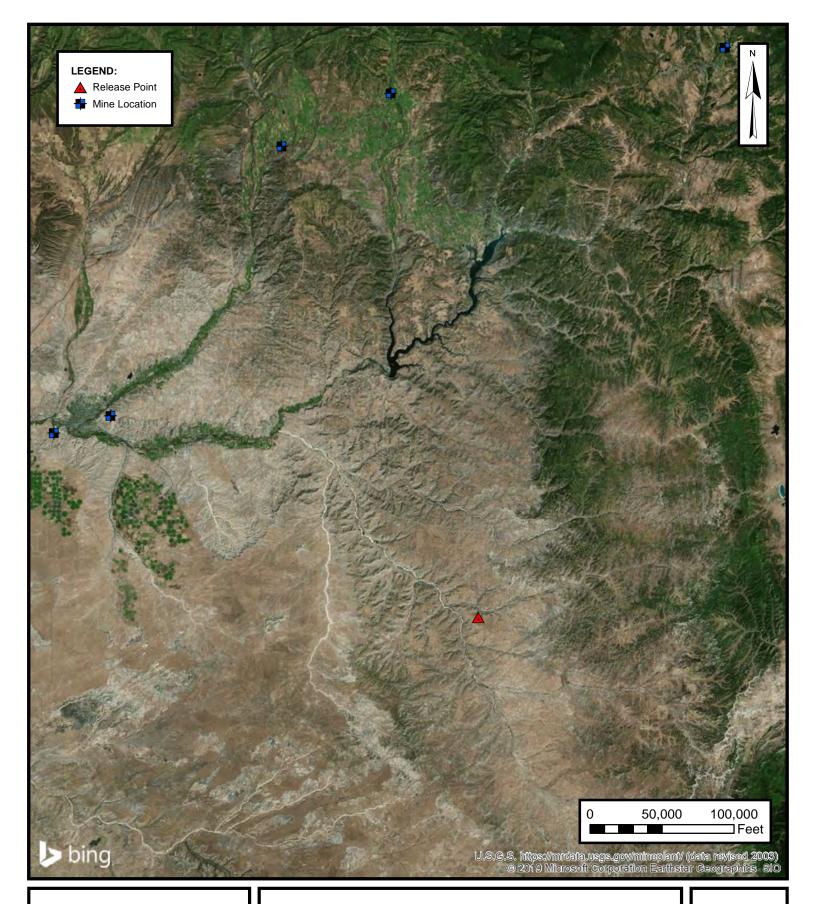
WETLANDS

ENTERPIRSE FIELD SERVICES, LLC CANYON LARGO 147 DRIP LINE RELEASE NW ¼, S2 T25N R6W, NMPM. San Juan County, New Mexico 36.43116° N, 107.44232° W

PROJECT NUMBER: 05A1226042

FIGURE

D





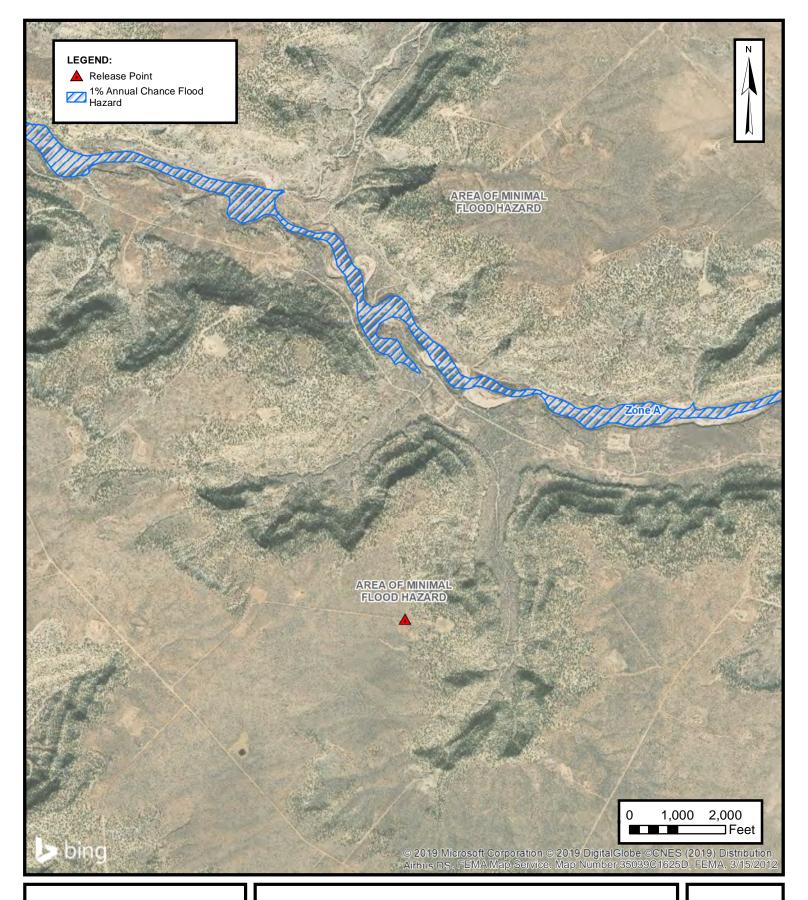
MINES, MILLS AND QUARRIES

ENTERPIRSE FIELD SERVICES, LLC CANYON LARGO 147 DRIP LINE RELEASE NW ¼, S2 T25N R6W, NMPM. San Juan County, New Mexico 36.43116° N, 107.44232° W

PROJECT NUMBER: 05A1226042

FIGURE

E





100-YEAR FLOOD PLAN MAP

ENTERPIRSE FIELD SERVICES, LLC CANYON LARGO 147 DRIP LINE RELEASE NW ¼, S2 T25N R6W, NMPM. San Juan County, New Mexico 36.43116° N, 107.44232° W

PROJECT NUMBER: 05A1226042

FIGURE

F



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

			•	
NΩ	reco	rds.	tou	nd.

UTMNAD83 Radius Search (in meters):

Easting (X): 281072.85 **Northing (Y):** 4034538.52 **Radius:** 804.67



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

UTMNAD83 Radius Search (in meters):

Easting (X): 281072.85 Northing (Y): 4034538.52 Radius: 804.67

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

2/13/19 1:55 PM Page 1 of 1 ACTIVE & INACTIVE POINTS OF DIVERSION



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

280124

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

1 4 03 25N 06W

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD

Sub-QQQ Code basin County 64 16 4 Sec Tws Rng

Depth Depth Water **Distance**

Well Water Column 500

500 feet

4034064*

1346 Average Depth to Water:

1060

Minimum Depth:

500 feet

500 feet Maximum Depth:

Record Count: 1

POD Number

SJ 00201

UTMNAD83 Radius Search (in meters):

Radius: 1609.3 Easting (X): 281072.85 Northing (Y): 4034538.52



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

		(acre ft per a	innum)				C=the file is closed)	(qua	rters ar	e sma	llest to largest)	(NAD83	UTM in meters)	
	Sub					Well			qqq	l				
WR File Nbr	basir	Use Diversio	n Owner	County	POD Number	Tag	Code Grant	Source	6416 4	Sec	Tws Rng	Х	Υ	Distance
SJ 00885	SJ	DOM 2	24 BARBARA TRUBY	RA	SJ 00885 7				4 1 4	03	25N 06W	280223	4033963*	1026
SJ 00201	SJ	OFM	4 BURLINGTON RESOURCES OIL & GAS	RA	SJ 00201			Artesian	1 4	03	25N 06W	280124	4034064*	1060
SJ 00885	SJ	DOM 2	24 BARBARA TRUBY	RA	SJ 00885 3				1 4 1	03	25N 06W	279636	4034564*	1437

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 281072.85 Northing (Y): 4034538.52 **Radius: 1609.3**

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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

Canyon Largo 147 Drip Line Release								
Well Name	Location	Depth to Water	Approximate Distance to Site*					
Canyon Largo Units #252 and #64	Unit A, Sec 3 T25N R6W	85 feet	0.46 Miles					
Canyon Largo Units #166 and #34	Unit N, Sec 2 T25N R6W	78 feet	0.5 Miles					
Canyon Largo Units #294 and #183	Unit A, Sec 2 T25N R6W	100 feet	0.5 Miles					

^{*}Based on assumed well pad identification on aerial imagery

- 294=30-039-27308 183=30-039-20521

364/

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

Operator Meridian Oil Inc. Location: Unit A Sec. 02 Twp 25 Rng 66
Name of Well/Wells.or Pipeline Serviced
CANYON LATGO UNITS * 294 AND # 183
Elevation 669/ Completion Date 8-8-93 Total Depth 392 Land Type #5
Casing Strings, Sizes, Types & Depths 6/15 Set 59 of 8 PVc CASING,
NO GAS, WATER OF Boulders Were ENCOUNTERED DUTING CASING.
If Casing Strings are cemented, show amounts & types used Comented
WITH 11 SACKS.
If Cement or Bentonite Plugs have been placed, show depths 4 amounts used $\mathcal{N}_{\theta \cap P}$
Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 100'-Fresh
Depths gas encountered: Nine
Ground bed depth with type & amount of coke breeze used: 39z' Asbury-5250/bs
Depths anodes placed: 1-357 344 285 279 272 266, 259 252, 245 238 23/224, 217 140 130
Depths vent pipes placed: Surface to 392
Vent pipe perforations: From 92' to 392'
Remarks: No Gas encountered during DEIling JAN31 1994
OIL CON. DIV.

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

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

252=30-039-20805 65=30-039-06187

3632

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

Operator Meridian Oil Inc. Location: Unit A Sec. 03. Twp 25 Rng 06
Name of Well/Wells.or Pipeline Serviced
CANYON LAFGO UNITS #252 AND #65
Elevation 6720 Completion Date 7/19/93 Total Depth 4/3 Land Type F
Casing Strings, Sizes, Types & Depths 6/21 Set 59 of 8 PVc Casing,
NO GAS, WATER, OF Boulders Were ENCOUNTERED DUTING CASING.
If Casing Strings are cemented, show amounts & types used CemenTed
WITH 12 SACKS.
If Cement or Bentonite Plugs have been placed, show depths & amounts used
None
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. Drillet Reported A WATER Seep AT 85.
NOT Enough For A SAMPle.
Depths gas encountered: None
Ground bed depth with type & amount of coke breeze used: 413 DepTH
Used 20 SACK of Lotesco SW, AND 74 BAGS of Asbury (5700#)
Depths anodes placed: 346, 346, 334, 274, 268, 262, 247, 241, 235, 229, 190, 184, 178, 136, 1124'
Depths vent pipes placed: Surface To 413 per LIVEM
Depths vent pipes placed: <u>SULFACE TO 413'</u> Vent pipe perforations: <u>BOTTOM 300'</u> Vent pipe perforations: <u>BOTTOM 300'</u>
JVM 3.T 1924
OIL CON. DIV.

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

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

#24 30-039-68041 #166 30-039-21505

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

Operator Metidian Oil Inc. Location: Unit N Sec. 02 Twp 25 Rng 06
Name of Well/Wells or Pipeline Serviced
CANYON LAYGO UNITS #166 AND #24
Elevation 6674 Completion Date 7/22/93 Total DepthLand Type #5
Casing Strings, Sizes, Types & Depths 6/20 Set 59 Of8" Puc Casing.
NO GAS, WATER, OF Boulders Were ENCOUNTERED During CASING
If Casing Strings are cemented, show amounts & types used <u>CemenTed</u>
WITH 12 SACKS.
If Cement or Bentonite Plugs have been placed, show depths & amounts used
None
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. Hit A WATER Seep AT 78, And A MAJOR WATER
Vein AT 371. WATER SAMPLE WAS TAKEN.
Depths gas encountered: NONe
Ground bed depth with type & amount of coke breeze used: 430 DepTH.
Used 30 SACKS OF LOYESCO SW AND GO SACKS OF ASbury 2185 (6000")
Depths anodes placed: 386, 291, 285, 279, 273, 245, 240, 234, 210, 204, 198, 192, 186, 180, +158
Depths vent pipes placed: Surface To 430 DECEIVED
Vent pipe perforations: Bottom 320. JAN31 1994
Remarks: OIL CON. DIV
DIST. ?

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

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

APPENDIX C

Executed C-138 Solid Waste Acceptance Forms

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

State of New Mexico Energy Minerals and Natural Resources 9 7057-0992 Form C-138

Oil Conservation Division 1220 South St. Francis Dr. *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
 Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401
3. Originating Site: Canyon Largo #147
4. Location of Material (Street Address, City, State or ULSTR): Section 2 T25N R6W; 36.431197 -107.442322. Fel. 2019
4. Source and Description of Waste: Hydrocarbon/Methanol impacted soil from remediation activities associated with a natural gas -meter tube release. 5. Estimated Volume 10 (yd) bbls Known Volume (to be entered by the operator at the end of the haul) 28 (yd) bbls
i, Thomas Long representative or authorized agent for Enterprise Field Services, LLC do hereby
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
1, 2-13-19 representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to Generator Signature complete the required testing/sign the Generator Waste Testing Certification.
1. Crea Crabber. representative for Envirotech. Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC. Transporter: TBD OFT
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 Injection Landfill Other
Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)
PRINT NAME: True Coubtree TITLE: Enviro Manager Date: 2/13/19
SIGNATURE: TELEPHONE NO.: 505-632-0615 Surface Waste Management Facility Authorized Agent

District I 1625 N. French Dr., Hobbs, NM 88240 District II 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 9 70-57-0090 Form C-138 Revised August 1, 2011

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

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
 Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401
3. Originating Site: Canyon Largo #147
4. Location of Material (Street Address, City, State or ULSTR): Section 2 T25N R6W; 36.431197 -107.442322. March April 2019 4. Source and Description of Waste: Hydrocarbon/Methanol impacted soil from remediation activities associated with a natural gas
4. Source and Description of Waste: Hydrocarbon/Methanol impacted soil from remediation activities associated with a natural gas
meter tube release. 5. Estimated Volume 50 (yd³) bbls Known Volume (to be entered by the operator at the end of the haul) 374/15 yd³ / bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I, Thomas Long representative or authorized agent for Enterprise Field Services, LLC do hereby PRINT & SIGN NAME COMPANY NAME
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,, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.
I, <u>Gree Grabbese</u> , representative for <u>Envirotech, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
6. Transporter: TBD Stan Horx, Sierra, B+BVac, OFT, Riley
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011 Address of Facility: Hilltop, NM
Method of Treatment and/or Disposal: ☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other
Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)
PRINT NAME: Greg Crabbrele TITLE: Enviro Manger DATE: 3/27/19
SIGNATURE: TELEPHONE NO.: 505-632-0615

APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Canyon Largo 147 Drip Line Release Ensolum Project No. 05A1226044



Photograph 1

Photograph Description: View of the release area.



Photograph 2

Photograph Description: View of the in process excavation activities.



Photograph 3

Photograph Description: View of the in process excavation activities.



SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Canyon Largo 147 Drip Line Release Ensolum Project No. 05A1226044



Photograph 4

Photograph Description: View of the in process excavation activities.



Photograph 5

Photograph Description: View of the in process excavation activities.



Photograph 6

Photograph Description: View of the in process excavation activities.



SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Canyon Largo 147 Drip Line Release Ensolum Project No. 05A1226044



Photograph 7

Photograph Description: View of the final excavation.



Photograph 8

Photograph Description: View of the final excavation.



Photograph 9

Photograph Description: View of the final excavation after restoration.



APPENDIX E

Table 1 – Soil Analytical Summary



TABLE 1 Canyon Largo 147 Drip Line Release SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined GRO/DRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) (mg/kg)	Chloride (mg/kg)
		Natural Resources sion, Closure Crit		10	NE	NE	NE	50				1,000	2,500	10,000
						Preliminary Con	nposite Soil Sai	mples Removed	by Excavation					
S-3	3.29.19	С	0 to 2	<0.097	<0.19	<0.19	<0.39	ND	510	500	<49	1,010	1,010	<61
D-1	3.29.19	С	3	0.78	21	9.6	270	301	3,100	660	<48	3,760	3,760	<60
						Final C	onfirmation Co	mposite Soil Sa	mples					
S-1	3.29.19	С	0 to 2	<0.11	<0.21	<0.21	<0.42	ND	<21	36	<46	36	36	<60
S-2	3.29.19	С	0 to 2	<0.089	<0.18	<0.18	<0.36	ND	<18	24	<50	24	24	92
S-4	3.29.19	С	0 to 0.5	<0.090	<0.18	<0.18	<0.36	ND	<18	23	<49	23	23	<60
S-5	3.29.19	С	2	<0.098	<0.20	<0.20	1.5	1.5	72	84	<48	156	156	90
S-6	4.05.19	С	0 to 6	<0.094	0.75	0.34	5.6	6.7	76	65	<48	141	141	<60
S-7	4.05.19	С	0 to 8	<0.090	<0.18	<0.18	<0.36	ND	<18	<9.8	<49	ND	ND	<60
S-8	4.05.19	С	0 to 8	<0.095	<0.19	<0.19	<0.38	ND	<19	15	<42	15	15	<60
S-9	4.05.19	С	8	<0.10	0.35	1.2	15	17	200	230	<49	430	430	<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

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

TPH = Total Petroleum Hydrocarbon

APPENDIX F

Laboratory Data Sheets & Chain of Custody Documentation



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

April 02, 2019

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

TEL: (903) 821-5603

FAX:

RE: Canyon Largo 147 Drip OrderNo.: 1903E74

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/30/2019 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 **1903E74**

Date Reported: 4/2/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1

 Project:
 Canyon Largo 147 Drip
 Collection Date: 3/29/2019 11:00:00 AM

 Lab ID:
 1903E74-001
 Matrix: SOIL
 Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	4/1/2019 9:20:19 AM	43997
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: Irm
Diesel Range Organics (DRO)	36	9.2	mg/Kg	1	4/1/2019 9:08:22 AM	43986
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/1/2019 9:08:22 AM	43986
Surr: DNOP	116	70-130	%Rec	1	4/1/2019 9:08:22 AM	43986
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	21	mg/Kg	5	3/31/2019 11:50:10 AM	G58767
Surr: BFB	108	73.8-119	%Rec	5	3/31/2019 11:50:10 AM	G58767
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.11	mg/Kg	5	3/31/2019 11:50:10 AM	R58767
Toluene	ND	0.21	mg/Kg	5	3/31/2019 11:50:10 AM	R58767
Ethylbenzene	ND	0.21	mg/Kg	5	3/31/2019 11:50:10 AM	R58767
Xylenes, Total	ND	0.42	mg/Kg	5	3/31/2019 11:50:10 AM	R58767
Surr: 4-Bromofluorobenzene	93.3	80-120	%Rec	5	3/31/2019 11:50:10 AM	R58767

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

- Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit

Н

S % Recovery outside of range due to dilution or matrix

- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode

Lab Order **1903E74**

Date Reported: 4/2/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-2

 Project:
 Canyon Largo 147 Drip
 Collection Date: 3/29/2019 11:05:00 AM

 Lab ID:
 1903E74-002
 Matrix: SOIL
 Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	92	60	mg/Kg	20	4/1/2019 9:32:43 AM	43997
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: Irm
Diesel Range Organics (DRO)	24	9.9	mg/Kg	1	4/1/2019 10:21:43 AM	43986
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/1/2019 10:21:43 AM	43986
Surr: DNOP	121	70-130	%Rec	1	4/1/2019 10:21:43 AM	43986
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	18	mg/Kg	5	3/31/2019 1:00:28 PM	G58767
Surr: BFB	89.6	73.8-119	%Rec	5	3/31/2019 1:00:28 PM	G58767
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.089	mg/Kg	5	3/31/2019 1:00:28 PM	R58767
Toluene	ND	0.18	mg/Kg	5	3/31/2019 1:00:28 PM	R58767
Ethylbenzene	ND	0.18	mg/Kg	5	3/31/2019 1:00:28 PM	R58767
Xylenes, Total	ND	0.36	mg/Kg	5	3/31/2019 1:00:28 PM	R58767
Surr: 4-Bromofluorobenzene	89.9	80-120	%Rec	5	3/31/2019 1:00:28 PM	R58767

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

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- D Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode

Lab Order **1903E74**

Date Reported: 4/2/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

 Project:
 Canyon Largo 147 Drip
 Collection Date: 3/29/2019 11:10:00 AM

 Lab ID:
 1903E74-003
 Matrix: SOIL
 Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	ND	61		mg/Kg	20	4/1/2019 10:09:56 AM	43997
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: Irm
Diesel Range Organics (DRO)	500	9.8		mg/Kg	1	4/1/2019 10:43:33 AM	43986
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/1/2019 10:43:33 AM	43986
Surr: DNOP	102	70-130		%Rec	1	4/1/2019 10:43:33 AM	43986
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	510	19		mg/Kg	5	3/31/2019 2:10:57 PM	G58767
Surr: BFB	1140	73.8-119	S	%Rec	5	3/31/2019 2:10:57 PM	G58767
EPA METHOD 8021B: VOLATILES						Analyst	: RAA
Benzene	ND	0.097		mg/Kg	5	3/31/2019 2:10:57 PM	R58767
Toluene	ND	0.19		mg/Kg	5	3/31/2019 2:10:57 PM	R58767
Ethylbenzene	ND	0.19		mg/Kg	5	3/31/2019 2:10:57 PM	R58767
Xylenes, Total	ND	0.39		mg/Kg	5	3/31/2019 2:10:57 PM	R58767
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	5	3/31/2019 2:10:57 PM	R58767

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

- Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit

Н

S % Recovery outside of range due to dilution or matrix

- D Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode

Lab Order **1903E74**

Date Reported: 4/2/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-4

 Project:
 Canyon Largo 147 Drip
 Collection Date: 3/29/2019 11:15:00 AM

 Lab ID:
 1903E74-004
 Matrix: SOIL
 Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	ND	60		mg/Kg	20	4/1/2019 10:22:21 AM	43997
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: Irm
Diesel Range Organics (DRO)	23	9.9		mg/Kg	1	4/1/2019 11:05:36 AM	43986
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/1/2019 11:05:36 AM	43986
Surr: DNOP	129	70-130		%Rec	1	4/1/2019 11:05:36 AM	43986
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	3/31/2019 2:34:23 PM	G58767
Surr: BFB	121	73.8-119	S	%Rec	5	3/31/2019 2:34:23 PM	G58767
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.090		mg/Kg	5	3/31/2019 2:34:23 PM	R58767
Toluene	ND	0.18		mg/Kg	5	3/31/2019 2:34:23 PM	R58767
Ethylbenzene	ND	0.18		mg/Kg	5	3/31/2019 2:34:23 PM	R58767
Xylenes, Total	ND	0.36		mg/Kg	5	3/31/2019 2:34:23 PM	R58767
Surr: 4-Bromofluorobenzene	92.1	80-120		%Rec	5	3/31/2019 2:34:23 PM	R58767

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

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ID Not Detected at the Reporting Limit

RL Reporting Detection Limit

Lab Order **1903E74**

Date Reported: 4/2/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-5

Project: Canyon Largo 147 Drip Collection Date: 3/29/2019 11:20:00 AM

Lab ID: 1903E74-005 **Matrix:** SOIL **Received Date:** 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	90	60		mg/Kg	20	4/1/2019 10:34:46 AM	43997
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	Irm
Diesel Range Organics (DRO)	84	9.6		mg/Kg	1	4/1/2019 11:27:27 AM	43986
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/1/2019 11:27:27 AM	43986
Surr: DNOP	112	70-130		%Rec	1	4/1/2019 11:27:27 AM	43986
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	72	20		mg/Kg	5	3/31/2019 2:57:54 PM	G58767
Surr: BFB	220	73.8-119	S	%Rec	5	3/31/2019 2:57:54 PM	G58767
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.098		mg/Kg	5	3/31/2019 2:57:54 PM	R58767
Toluene	ND	0.20		mg/Kg	5	3/31/2019 2:57:54 PM	R58767
Ethylbenzene	ND	0.20		mg/Kg	5	3/31/2019 2:57:54 PM	R58767
Xylenes, Total	1.5	0.39		mg/Kg	5	3/31/2019 2:57:54 PM	R58767
Surr: 4-Bromofluorobenzene	95.9	80-120		%Rec	5	3/31/2019 2:57:54 PM	R58767

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

Qualifiers:

Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

Н

S % Recovery outside of range due to dilution or matrix

D Not Detected at the Reporting Limit

RL Reporting Detection Limit

Lab Order **1903E74**

Date Reported: 4/2/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: D-1

 Project:
 Canyon Largo 147 Drip
 Collection Date: 3/29/2019 11:25:00 AM

 Lab ID:
 1903E74-006
 Matrix: SOIL
 Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	ND	60		mg/Kg	20	4/1/2019 10:47:10 AM	43997
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: Irm
Diesel Range Organics (DRO)	660	9.6		mg/Kg	1	4/1/2019 11:49:23 AM	43986
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/1/2019 11:49:23 AM	43986
Surr: DNOP	110	70-130		%Rec	1	4/1/2019 11:49:23 AM	43986
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	3100	160		mg/Kg	50	4/1/2019 10:03:04 AM	G58767
Surr: BFB	342	73.8-119	S	%Rec	50	4/1/2019 10:03:04 AM	G58767
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	0.78	0.63		mg/Kg	50	4/1/2019 10:03:04 AM	R58767
Toluene	21	1.6		mg/Kg	50	4/1/2019 10:03:04 AM	R58767
Ethylbenzene	9.6	1.6		mg/Kg	50	4/1/2019 10:03:04 AM	R58767
Xylenes, Total	270	3.1		mg/Kg	50	4/1/2019 10:03:04 AM	R58767
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	50	4/1/2019 10:03:04 AM	R58767

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

- Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit

Н

S % Recovery outside of range due to dilution or matrix

- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

WO#: **1903E74**

02-Apr-19

Client: ENSOLUM

Project: Canyon Largo 147 Drip

Sample ID: MB-43997 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 43997 RunNo: 58782

Prep Date: 4/1/2019 Analysis Date: 4/1/2019 SeqNo: 1976552 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-43997 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 43997 RunNo: 58782

Prep Date: 4/1/2019 Analysis Date: 4/1/2019 SeqNo: 1976553 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.5 90 110

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1903E74**

02-Apr-19

Client: ENSOLUM

Project: Canyon Largo 147 Drip

Sample ID: LCS-43986 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 43986 RunNo: 58785

Prep Date: 3/30/2019 Analysis Date: 4/1/2019 SeqNo: 1975449 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 0 54 10 50.00 108 63.9 124 Surr: DNOP 5.7 5.000 115 130

Sample ID: MB-43986 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 43986 RunNo: 58785

Prep Date: 3/30/2019 Analysis Date: 4/1/2019 SeqNo: 1975450 Units: mg/Kg

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

Diesel Range Organics (DRO)ND10Motor Oil Range Organics (MRO)ND50

Surr: DNOP 12 10.00 115 70 130

Sample ID: 1903E74-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: S-1 Batch ID: 43986 RunNo: 58785

Prep Date: 3/30/2019 Analysis Date: 4/1/2019 SeqNo: 1975452 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 84 36.07 53.5 9.8 48.92 98.2 126

Surr: DNOP 5.6 4.892 56.07 98.2 53.5 126

Sample ID: 1903E74-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **S-1** Batch ID: **43986** RunNo: **58785**

Prep Date: 3/30/2019 Analysis Date: 4/1/2019 SeqNo: 1975453 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Result PQL %REC LowLimit HighLimit Qual Analyte Diesel Range Organics (DRO) 86 9.9 49.55 36.07 100 53.5 126 2.02 21.7 Surr: DNOP 98.1 4.9 4.955 70 130 0 0

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903E74

02-Apr-19

Project: Canyon Largo 147 Drip

Sample ID: 1903E74-001AMS	SampT	уре: МS	3	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S-1	Batch ID: G58767			RunNo: 58767						
Prep Date:	Analysis Date: 3/31/2019		SeqNo: 1974485			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	110	21	105.8	7.239	99.0	69.1	142			
Surr: BFB	5200		4234		124	73.8	119			S

Sample ID: 1903E74-001AMS	D Sampi	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е		
Client ID: S-1	ient ID: S-1 Batch ID: G58767 ep Date: Analysis Date: 3/31/2019 nalyte Result PQL SPK value soline Range Organics (GRO) 110 21 105.8	RunNo: 58767									
Prep Date: Analysis Date: 3/31/2019				SeqNo: 1974486 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	110	21	105.8	7.239	96.0	69.1	142	2.80	20		
Surr: BFB	5100		4234		120	73.8	119	0	0	S	

Sample ID: 2.5UG GRO LCS				TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch	ID: G5	8767	R	RunNo: 58767						
Prep Date: Analysis Date: 3/31/2019		SeqNo: 1974487			4487 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	98.1	80.1	123				

Sample ID: RB				TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	n ID: G5	8767	F	RunNo: 5	8767				
Prep Date:	Analysis Date: 3/31/2019		9	SeqNo: 1974490			ίg			
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		91.3	73.8	119			

Sample ID: LCS-43962	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 43962	RunNo: 58796	
Prep Date: 3/29/2019	Analysis Date: 4/1/2019	SeqNo: 1975696	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB	1000 1000	101 73.8	119

Sample ID: LCS-43991	SampType: LCS	TestCode: EPA	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 43991	RunNo: 58796								
Prep Date: 3/30/2019	Analysis Date: 4/1/2019	SeqNo: 1975	SeqNo: 1975697 Units: %Rec							
Analyte	Result PQL SPK v	lue SPK Ref Val %REC Lo	owLimit HighLimit %RPD	RPDLimit Qual						
Surr: BFB	1000 1	000 104	73.8 119	_						

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903E74

02-Apr-19

Client: ENSOLUM

Project: Canyon Largo 147 Drip

Sample ID: MB-43962 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 43962 RunNo: 58796

Prep Date: 3/29/2019 Analysis Date: 4/1/2019 SeqNo: 1975698 Units: %Rec

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

Surr: BFB 890 1000 89.3 73.8 119

Sample ID: MB-43991 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 43991 RunNo: 58796

Prep Date: 3/30/2019 Analysis Date: 4/1/2019 SeqNo: 1975699 Units: %Rec

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

Surr: BFB 940 1000 94.0 73.8 119

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1903E74**

02-Apr-19

Client: ENSOLUM

Project: Canyon Largo 147 Drip

Sample ID: 100NG BTEX LCS	S	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Batcl	h ID: R5	8767	F	RunNo: 5							
Prep Date:	Analysis D	Date: 3/3	31/2019	S	SeqNo: 1	974493	Units: mg/K	: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.91	0.025	1.000	0	91.4	80	120					
Toluene	0.96	0.050	1.000	0	95.6	80	120					
Ethylbenzene	0.95	0.050	1.000	0	94.9	80	120					
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120					
Surr: 4-Bromofluorobenzene	0.92		1.000		91.6	80	120					

Sample ID: 1903E74-002AMS	SampT	ype: MS	3	Tes	tCode: El					
Client ID: S-2	Batch	n ID: R5	8767	F	RunNo: 5 8					
Prep Date:	Analysis D	ate: 3/	31/2019	8	SeqNo: 1	974495	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.2	0.089	3.569	0	89.5	63.9	127			
Toluene	3.4	0.18	3.569	0.05782	92.5	69.9	131			
Ethylbenzene	3.3	0.18	3.569	0	93.6	71	132			
Xylenes, Total	10	0.36	10.71	0.06103	94.2	71.8	131			
Surr: 4-Bromofluorobenzene	3.4		3.569		94.1	80	120			

Sample ID: 1903E74-002AMS	SD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-2	R58767 RunNo: 58767									
Prep Date:	31/2019	8	SeqNo: 19							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.1	0.089	3.569	0	88.0	63.9	127	1.77	20	
Toluene	3.3	0.18	3.569	0.05782	90.4	69.9	131	2.32	20	
Ethylbenzene	3.2	0.18	3.569	0	90.9	71	132	2.86	20	
Xylenes, Total	10	0.36	10.71	0.06103	92.9	71.8	131	1.40	20	
Surr: 4-Bromofluorobenzene	3.3		3.569		91.5	80	120	0	0	

Sample ID: RB	SampT	уре: МЕ	BLK	Tes						
Client ID: PBS	Batch ID: R58767			RunNo: 58767						
Prep Date:	Analysis Date: 3/31/2019			S	SeqNo: 19	974515	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	80	120			

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1903E74**

02-Apr-19

Client: ENSOLUM

Project: Canyon Largo 147 Drip

Sample ID: LCS-43962 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 43962 RunNo: 58796

Prep Date: 3/29/2019 Analysis Date: 4/1/2019 SegNo: 1975714 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.96 1.000 96.1 80 120

Sample ID: LCS-43991 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 43991 RunNo: 58796

Prep Date: 3/30/2019 Analysis Date: 4/1/2019 SeqNo: 1975715 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.96 1.000 95.6 80 120

Sample ID: MB-43962 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 43962 RunNo: 58796

Prep Date: 3/29/2019 Analysis Date: 4/1/2019 SeqNo: 1975716 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.93 1.000 92.8 80 120

Sample ID: MB-43991 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: **43991** RunNo: **58796**

Prep Date: 3/30/2019 Analysis Date: 4/1/2019 SeqNo: 1975717 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.96 1.000 96.1 80 120

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection 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 Num	ber: 1903E74		RcptNo:	1
Received By:	Anne Thorne	3/30/2019 9:20:00	АМ	anne Ma	· · · · · · · · · · · · · · · · · · ·	
Completed By:	Anne Thorne	3/30/2019 9:45:30	АМ	Anne Sh		
Reviewed By:				ame An	-	
1 / 1	L					
Chain of Cus	by: KU3/30/	(9				
<u> </u>	custody complete?		Yes 🔽	No 🗆	Not Present	
	sample delivered?		Courier			
<u>Z.</u>	our pro donvoica.		Counter			
<u>Log In</u>			_	_	_	
3. Was an atter	npt made to cool the sample	es?	Yes 🔽	No 🗀	NA 📙	
4 147 11			C-3	Na 🗆		
4. Were all sam	ples received at a temperati	ure of >0° C to 6.0°C	Yes 🗹	No 🗀	NA 🗔	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗌		
Sufficient san	nple volume for indicated tes	st(s)?	Yes 🗹	No 🗌		
7. Are samples	(except VOA and ONG) prop	perly preserved?	Yes 🗹	No 🗌	_	,
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. VOA vials hav	/e zero headspace?		Yes 🗌	No 🗆	No VOA Vials ⊻	
	mple containers received br	sken?	Yes	No ☑	THO VOA VIAIS	
10, ***** 4, ****	inplo contamolo (cool) cd pil	, , , , , , , , , , , , , , , , , , ,	103		# of preserved bottles checked	
	ork match bottle labels?		Yes 🗹	No 🗆	for pH:	<u>. </u>
	ancies on chain of custody)					>12 unless noted)
	correctly identified on Chain		Yes ⊻	No 📙	Adjusted?	
	t analyses were requested? ng times able to be met?		Yes ✓	No 🗔	Checked by:	
	ustomer for authorization.)		Yes 🗹	No ∐ [Official Dy.	
Special Hand	ing (if applicable)					
-			,			
15. Was Client no	otified of all discrepancies w	tn this order?	Yes 🗆	No ∐	NA 🗹	
	Notified:	Date	T			
By Who	###	Via:	eMail F	hone Fax	In Person	
Regard						
	nstructions:					
16. Additional re						
	DDY SEALS ON SOIL JARS	/at 3/30/19				
17. <u>Cooler Infor</u> Cooler No	to keep managed and another state to be an experience.	Seal Intact Seal No	Seal Date	Signed By		
3		Yes	Jear Date	Signed By		
3	==		······································			

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	HALL ENVIKONMENIAL ANALYSIS LABORATORY		C)																			2	
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11/2 4/11	3-30-19 "		470 CH		48			ON.	Section	HEAL NO. WSETH	92	702	203	-20-t	100	50						29/19 140b	Date Time 50/19
4	KRush (ıme:	Largo)	054 1226048	anager:	Sommers	C.D. Apont,	Sample Temperature. $/\mathcal{G}$	Preservative Type						ř						t labert	Line 7
Turn-Around Time:	☐ Standard	Project Name:	Canyon	Project #:	0	Project Manage	K. Sum	Sampler: On Ice:	Sample Te	Container Type and #	1 40 c	_										Received by:	Received by:
Chain-of-Custody Record			S. R.10	A Astec Non		ness & Garsolum.com	☐ Level 4 (Full Validation)			Sample Request ID	1-5	5-3	5-3	5-4	5-5)-Q						shed by:	Time: Relinquished by: Received by:
-of-Cu	Ensolun		S: 606	50,4		K Sunners		□ Other		Matrix	S					~					i		Relinquished by:
Shain	Ens		Mailing Address:	de	#:	email or Fax#:	QA/QC Package:	Accreditation	□ EDD (Type)	Time	27,603	1105	1110	1115	02/1	1125						Time:	Date: Time:
J	Client:		Mailing	Grand	Phone #:	email (QA/QC Packa □ Standard	Accreditati □ NELAP		Date	3-34-19											Date: 3-34.19	Date: 3/29/10



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

April 09, 2019

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

TEL: (903) 821-5603

FAX:

RE: Canyon Largo 147 Drip OrderNo.: 1904416

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/6/2019 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

Received Date: 4/6/2019 10:45:00 AM

Lab Order 1904416

Date Reported: 4/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-6

Project: Canyon Largo 147 Drip Collection Date: 4/5/2019 12:00:00 PM Matrix: MEOH (SOIL)

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 60 mg/Kg 20 4/8/2019 10:32:49 AM 44191 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm Diesel Range Organics (DRO) 65 9.7 mg/Kg 4/8/2019 9:15:30 AM 44189 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/8/2019 9:15:30 AM 44189 Surr: DNOP 100 %Rec 4/8/2019 9:15:30 AM 44189 70-130 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) 76 5 4/8/2019 8:37:43 AM G58972 19 mg/Kg Surr: BFB 181 73.8-119 S %Rec 5 4/8/2019 8:37:43 AM G58972 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.094 4/8/2019 8:37:43 AM B58972 mg/Kg 5 Toluene 0.75 0.19 mg/Kg 4/8/2019 8:37:43 AM B58972 Ethylbenzene 0.34 0.19 mg/Kg 5 4/8/2019 8:37:43 AM B58972 Xylenes, Total 5.6 0.38 mg/Kg 5 4/8/2019 8:37:43 AM B58972 Surr: 4-Bromofluorobenzene 80-120 B58972 91.1 %Rec 4/8/2019 8:37:43 AM

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

Lab ID:

1904416-001

- Holding times for preparation or analysis exceeded
- POL Practical Quanitative Limit

Н

% Recovery outside of range due to dilution or matrix

- Not Detected at the Reporting Limit
- RL. Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode

Lab Order 1904416

Received Date: 4/6/2019 10:45:00 AM

Date Reported: 4/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-7

Project: Canyon Largo 147 Drip Collection Date: 4/5/2019 12:05:00 PM Matrix: MEOH (SOIL)

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 60 mg/Kg 20 4/8/2019 10:45:14 AM 44191 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm Diesel Range Organics (DRO) ND 9.8 mg/Kg 4/8/2019 9:37:34 AM 44189 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 4/8/2019 9:37:34 AM 44189 Surr: DNOP 99.0 %Rec 4/8/2019 9:37:34 AM 44189 70-130 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB ND Gasoline Range Organics (GRO) 5 4/8/2019 9:01:26 AM G58972 18 mg/Kg Surr: BFB 89.5 73.8-119 %Rec 5 4/8/2019 9:01:26 AM G58972 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.090 4/8/2019 9:01:26 AM B58972 mg/Kg 5 Toluene ND 0.18 mg/Kg 4/8/2019 9:01:26 AM B58972 Ethylbenzene ND 0.18 mg/Kg 5 4/8/2019 9:01:26 AM B58972 Xylenes, Total ND 0.36 mg/Kg 5 4/8/2019 9:01:26 AM B58972 Surr: 4-Bromofluorobenzene 80-120 4/8/2019 9:01:26 AM B58972 90.6 %Rec

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

Lab ID:

1904416-002

Н

[%] Recovery outside of range due to dilution or matrix

RL. Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Lab Order **1904416**

Date Reported: 4/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-8

 Project:
 Canyon Largo 147 Drip
 Collection Date: 4/5/2019 12:10:00 PM

 Lab ID:
 1904416-003
 Matrix: MEOH (SOIL)
 Received Date: 4/6/2019 10:45:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 60 mg/Kg 20 4/8/2019 10:57:38 AM 44191 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm Diesel Range Organics (DRO) 15 8.5 mg/Kg 4/8/2019 9:59:32 AM 44189 Motor Oil Range Organics (MRO) ND 42 mg/Kg 1 4/8/2019 9:59:32 AM 44189 Surr: DNOP 98.6 %Rec 4/8/2019 9:59:32 AM 44189 70-130 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB ND Gasoline Range Organics (GRO) 5 4/8/2019 9:25:01 AM G58972 19 mg/Kg Surr: BFB 95.3 73.8-119 %Rec 5 4/8/2019 9:25:01 AM G58972 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.095 4/8/2019 9:25:01 AM B58972 mg/Kg 5 Toluene ND 0.19 mg/Kg 4/8/2019 9:25:01 AM B58972 Ethylbenzene ND 0.19 mg/Kg 5 4/8/2019 9:25:01 AM B58972 Xylenes, Total ND 0.38 mg/Kg 5 4/8/2019 9:25:01 AM B58972 Surr: 4-Bromofluorobenzene 80-120 4/8/2019 9:25:01 AM B58972 92.9 %Rec

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

Н

S % Recovery outside of range due to dilution or matrix

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Lab Order **1904416**

Date Reported: 4/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-9

Project: Canyon Largo 147 Drip Collection Date: 4/5/2019 12:15:00 PM

Lab ID: 1904416-004 **Matrix:** MEOH (SOIL) **Received Date:** 4/6/2019 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	ND	60		mg/Kg	20	4/8/2019 11:10:04 AM	44191
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	Irm
Diesel Range Organics (DRO)	230	9.9		mg/Kg	1	4/8/2019 10:21:35 AM	44189
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/8/2019 10:21:35 AM	44189
Surr: DNOP	101	70-130		%Rec	1	4/8/2019 10:21:35 AM	44189
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	200	21		mg/Kg	5	4/8/2019 9:48:32 AM	G58972
Surr: BFB	332	73.8-119	S	%Rec	5	4/8/2019 9:48:32 AM	G58972
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.10		mg/Kg	5	4/8/2019 9:48:32 AM	B58972
Toluene	0.35	0.21		mg/Kg	5	4/8/2019 9:48:32 AM	B58972
Ethylbenzene	1.2	0.21		mg/Kg	5	4/8/2019 9:48:32 AM	B58972
Xylenes, Total	15	0.41		mg/Kg	5	4/8/2019 9:48:32 AM	B58972
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	5	4/8/2019 9:48:32 AM	B58972

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

Н

S % Recovery outside of range due to dilution or matrix

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

WO#: **1904416**

09-Apr-19

Client: ENSOLUM

Project: Canyon Largo 147 Drip

Sample ID: MB-44191 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 44191 RunNo: 58977

Prep Date: 4/8/2019 Analysis Date: 4/8/2019 SeqNo: 1984926 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-44191 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 44191 RunNo: 58977

Prep Date: 4/8/2019 Analysis Date: 4/8/2019 SeqNo: 1984927 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.7 90 110

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

4.3

WO#: **1904416**

09-Apr-19

Client: ENSOLUM

Surr: DNOP

Project: Canyon Largo 147 Drip

Sample ID: LCS-44189 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 44189 RunNo: 58966 Prep Date: 4/8/2019 Analysis Date: 4/8/2019 SeqNo: 1983691 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) 10 0 50 50.00 99.1 63.9 124

86.0

130

Sample ID: MB-44189 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MBLK Client ID: PBS Batch ID: 44189 RunNo: 58966 Prep Date: 4/8/2019 Analysis Date: 4/8/2019 SeqNo: 1983692 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	9.6	1	0.00	95.6	70	130

5.000

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1904416

09-Apr-19

Client: ENSOLUM

Project: Canyon Largo 147 Drip

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

Client ID: PBS Batch ID: G58972 RunNo: 58972

Prep Date: Analysis Date: 4/8/2019 SeqNo: 1984132 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 870 1000 87.1 73.8 119

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

Client ID: LCSS Batch ID: G58972 RunNo: 58972

Prep Date: Analysis Date: 4/8/2019 SeqNo: 1984133 Units: mg/Kg

Result Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 O 105 80.1 123 Surr: BFB 1000 1000 102 73.8 119

Sample ID: 1904416-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **S-6** Batch ID: **G58972** RunNo: **58972**

Prep Date: Analysis Date: 4/8/2019 SeqNo: 1984134 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Gasoline Range Organics (GRO) 180 19 93.91 75.85 107 69.1 142 Surr: BFB 3757 7700 205 S 73.8 119

Sample ID: 1904416-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-6 Batch ID: G58972 RunNo: 58972

Prep Date: Analysis Date: 4/8/2019 SeqNo: 1984135 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Gasoline Range Organics (GRO) 170 19 93.91 75.85 99.7 4.00 20 69.1 142 Surr: BFB 7300 3757 196 73.8 119 0 0 S

Sample ID: MB-44115 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PRS Batch ID: 44115 RunNo: 58972 Prep Date: 4/4/2019 Analysis Date: 4/8/2019 SeqNo: 1984136 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: BFB 890 1000 89.4 73.8 119

Sample ID: LCS-44115 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 44115 RunNo: 58972

Prep Date: 4/4/2019 Analysis Date: 4/8/2019 SeqNo: 1984137 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: BFB 1000 1000 101 73.8

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904416

09-Apr-19

Client:	ENSOLUM
CHCIIt.	LINDOLOM

Project: Canyon Largo 147 Drip

Sample ID: RB SampType: MBLK				Tes								
Client ID: PBS	Batch	n ID: B5	8972	F	RunNo: 5	8972						
Prep Date:	Analysis Date: 4/8/2019			8	SeqNo: 1	984171	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										

Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.87 1.000 87.4 80 120

Sample ID: 100NG BTEX LC:	S Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Bato	h ID: B5	8972	F	RunNo: 5	8972				
Prep Date:	Analysis I	Date: 4/	8/2019	5	SeqNo: 1	984172	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	80	120			
Toluene	0.95	0.050	1.000	0	94.7	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.9	80	120			

Sample ID: 1904416-002AMS	SampT	Гуре: М S	}	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: S-7	Batch	h ID: B5	8972	R	RunNo: 58	8972				
Prep Date:	Analysis D)ate: 4/ 6	8/2019	S	SeqNo: 19	984173	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.3	0.090	3.592	0	92.5	63.9	127			
Toluene	3.5	0.18	3.592	0.05639	95.5	69.9	131			
Ethylbenzene	3.4	0.18	3.592	0	95.9	71	132			
Xylenes, Total	10	0.36	10.78	0.05388	96.3	71.8	131			
Surr: 4-Bromofluorobenzene	3.3		3.592		93.1	80	120			

Sample ID: 1904416-002AMSI	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: S-7	Batch	1D: B5	8972	F	RunNo: 58	8972				
Prep Date:	Analysis D	ate: 4/	8/2019	8	SeqNo: 1	984174	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.2	0.090	3.592	0	90.0	63.9	127	2.81	20	•
Toluene	3.4	0.18	3.592	0.05639	93.0	69.9	131	2.64	20	
Ethylbenzene	3.4	0.18	3.592	0	93.8	71	132	2.25	20	
Xylenes, Total	10	0.36	10.78	0.05388	95.1	71.8	131	1.31	20	
Surr: 4-Bromofluorobenzene	3.2		3.592		88.8	80	120	0	0	

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1904416**

09-Apr-19

Client: ENSOLUM

Project: Canyon Largo 147 Drip

Sample ID: MB-44115 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: **44115** RunNo: **58972**

Prep Date: 4/4/2019 Analysis Date: 4/8/2019 SeqNo: 1984175 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.91 1.000 90.6 80 120

Sample ID: LCS-44115 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 44115 RunNo: 58972

Prep Date: 4/4/2019 Analysis Date: 4/8/2019 SeqNo: 1984176 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.91 1.000 91.0 80 120

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection 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: 1904416 RcptNo: 1 エー、〇人 Received By: Isaiah Ortiz 4/6/2019 10:45:00 AM I-04 Completed By: Isaiah Ortiz 4/6/2019 11:24:19 AM Reviewed By: 20 4.8-14 LB: Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 No 🗌 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 5. Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No Yes 🗸 No 7. Are samples (except VOA and ONG) properly preserved? No 🗸 NA 🗌 Yes 8. Was preservative added to bottles? 9. VOA vials have zero headspace? No _ No VOA Vials 🗸 Yes Yes 🗌 No V 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No No 🗌 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: 14. Were all holding times able to be met? Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 5.9 Good Yes 2 3.2 Good Yes 3 2.8 Good Yes

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