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

Responsible Party Hilcorp Energy

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	NCS1916928446
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

OGRID 372171

	loza hilcorp.com 882 CR 3100, Azto	ec NM 87410			elephone 505.564.0733 (assigned by OCD) NCS1916928446			
	-	ec NM 87410		Incident #	(assigned by OCD) NCS1916928446			
address 3	382 CR 3100, Azto	ec NM 87410		Incident # (assigned by OCD) NCS1916928446				
		Location	n of R	elease So	ource			
)2		(NAD 92 :	J	Longitude <u>-</u> rees to 5 decim	107.92714			
		(NAD 65 in C	iecimai aeg					
ell Federa	1 1			Site Type C	Gas Well			
scovered J	June 14, 2019			API# (if app	licable)30-045-08441			
Section	Township	Range		Coun	ity			
7	29N	10W	San J					
Material(		l that apply and attac						
ater	Volume Release	d (bbls) 37		Volume Recovered (bbls) 0				
			chloride	in the	Yes No			
					Volume Recovered (bbls)			
	Volume Release	d (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)								
e Corrosio	on in the pit tank o	caused the releas	Se.					
a	ection State Material ter	Material(s) Released (Select al Volume Release ter Volume Release	covered June 14, 2019  ection Township Range  29N 10W  State Federal Tribal Private  Nature ar  Material(s) Released (Select all that apply and atta  Volume Released (bbls)  ter Volume Released (bbls) 37  Is the concentration of dissolved produced water >10,000 mg/l?  Volume Released (bbls)  Volume Released (bbls)  Volume Released (mcf)  be) Volume/Weight Released (provi	ection Township Range  29N 10W San J  State Federal Tribal Private (Name:	covered June 14, 2019    API# (if apple			

# State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	Per 19.15.29.7.A(1) Major release means an authorized release of a volume, excluding gases, of 25 barrels or
19.15.29.7(A) NMAC?	more
⊠ Yes □ No	
TCX/TCC ' 1'	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? day June 16 <sup>th</sup> at 8:49 p.m. to Cory Smith and Jim Griswold with NMOCD and Emanuel Adeloye and Whitney
	n accordance with NMAC 19.15.29.10.A(1).
THOMAS WALL BENTTI OF	
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The servers of the role	age has been stormed
The source of the rele	
_	s been secured to protect human health and the environment.
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
<u>-</u>	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger
	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investigated	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name:Clara C	ardoza Title: Environmental Specialist
Signature:	Date: <u>06/25/2019</u>
Signature:	
email: <u>ccardoza@hil</u>	<u>corp.com</u> Telephone: <u>505.564.0733</u>
OCD Only	
Received by:	Date:

# State of New Mexico Oil Conservation Division

What is the shallowest depth to groundwater beneath the area affected by the release?

Incident ID	
District RP	
Facility ID	
Application ID	

## **Site Assessment/Characterization**

 $This information \ must \ be \ provided \ to \ the \ appropriate \ district \ office \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$ 

Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
<u>Characterization Report Checklist</u> : Each of the following items must be included in the report.	
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> </ul>	s.
Laboratory data including chain of custody	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

# State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Clara Cardoza	Title: Environmental Specialist
Signature:email:ccardoza@hilcorp.com	Date:11/14/19 Telephone:505.564.0733
OCD Only	
Received by:	Date:

# 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 photos of the liner integrity if applicable (Note: appropriate OCD District of must be notified 2 days prior to liner inspection)	fice
☐ 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 and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.  Printed Name: Clara Cardoza Title: Environmental Specialist  Signature: Date: 11/14/19  Email:	ch
OCD Only	
Received by: OCD Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigated remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsarty of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by: Date: Date:	
Printed Name: Cory Title: Environmental Specialist	_

# **Executive Summary**

On June 14, 2019 Hilcorp Energy had a release of 37 bbls of produced water at the Hubbell Federal 1. The source of the release was due to corrosion on the southwest corner of the BGT. The BGT was repaired with a polyuria coating.

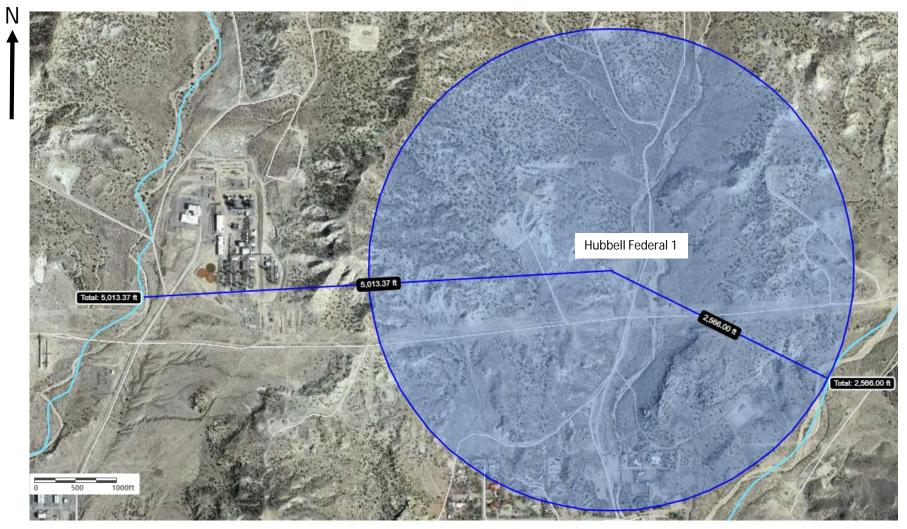
Confirmation sampling were taken on October 17<sup>th</sup> in accordance with NMAC 19.15.29.12.D. NMOCD was present for sampling. One sample was taken and came back in compliance with clean up action levels.



Release Area

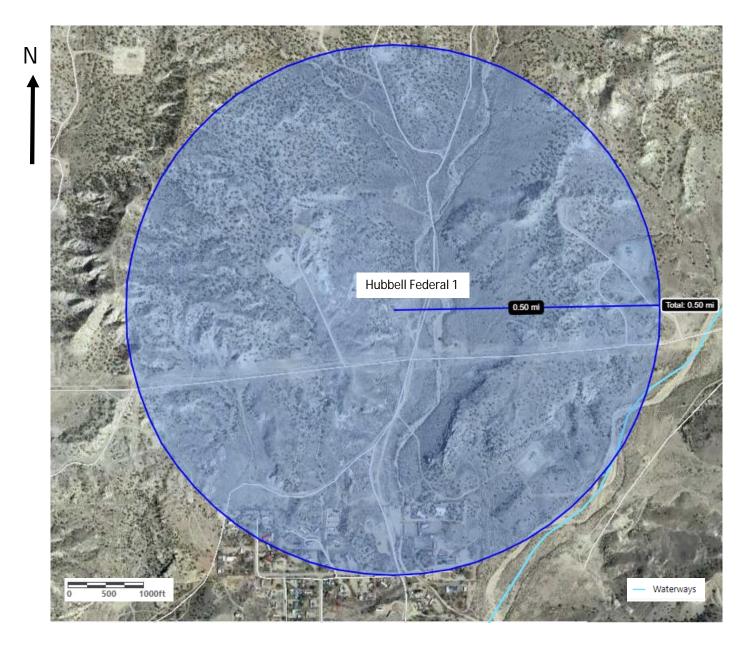


# Distance to watercourse

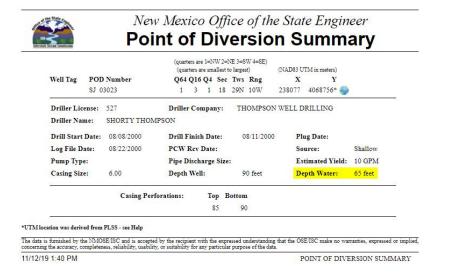


Distance to watercourse approximately 2566 ft

# Water sources or courses within ½ mile



# Depth to groundwater





Elevation of SJ 03023 POD is 5644 ft, elevation at the Hubbell Federal 1 is 5665 ft making an approximate groundwater depth of 86 ft Elevation of SJ 00987 POD is 5562 ft, elevation at the Hubbell Federal 1 is 5665 ft making an approximate groundwater depth of 403 ft

# Depth to groundwater

38-30-045-23881 8-30-045-20847= 14-30-045-21453

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

Operator MERIDIAN OIL	Location: Unit NE Sec. 18 Twp 29 Rng 10
Name of Well/Wells or Pipeline Servi	iced HUBBELL #3E, #8, #14
10 20 20 20 20 20 20 20 20 20 20 20 20 20	cps 1561w
Elevation 5604 Completion Date 9/8/81	Total Depth 400' Land Type* N/A
Casing, Sizes, Types & Depths	
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have be	een placed, show depths & amounts used
Depths & thickness of water zones wi	th description of water when possible
Fresh, Clear, Salty, Sulphur, Etc	
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A
Depths anodes placed: 380', 355', 340',	
Depths vent pipes placed: 400'	<b>DECEIAE</b> W
Vent pipe perforations: 300'	,UU MAY 3 1 1991
Remarks: gb #1	OIL CON. DIV.
	DIST. 3
	ble, please indicate so. Copies of all

Elevation at the Hubbell 8 and Hubbell 3E averages to 5624 ft. Hubbell Federal 1 elevation is 5665 ft making an approximate groundwater depth of 161 ft (using a conservative 120' water depth)

be submitted when available. Unplugged abandoned wells are to be included.

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

# Depth to groundwater



\*\*No groundwater depth data available on the NM Office of the State Engineer website

# Sample locations from each corner of the BGT



Northwest Corner







Northeast Corner



Southeast Corner

# Data table of soil contaminant concentration data

				Laboratory Results									
								TPH as					
		Field VOCs		TPH as	TPH as	TPH as		GRO+				Total	
		by PID	Chloride	DRO	GRO	MRO	Total TPH	DRO	Benzene	Toluene	Ethylbenzene	Xylene	Total BTEX
Sample Name	Date	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Action	n Level	-	10,000	-	1	-	2,500	1,000	10	-	-	-	50
BGT Cellar	10/17/19	n/a	824	17.50	ND	7.38	24.88	17.50	0.000593	ND	ND	ND	0.000593

Confirmation samples taken on 10/17/19 in accordance with NMAC 19.15.29.12.D and witnessed by Cory Smith with NMOCD. Because there was no groundwater data for this site, nearby water well information was used from the NM Office of the State Engineer. Estimated groundwater varied greatly between 86 ft and 403 ft, so for this sampling event clean up standards for GW at 51 ft -100 ft was utilized. For any future reporting and/or closures this will be revisited or approved BGT permit applications will be followed.



# ANALYTICAL REPORT

October 22, 2019

# Cp

















# HilCorp-Farmington, NM

Sample Delivery Group: L1151537 Samples Received: 10/18/2019

Project Number:

Description: Hubbell Federal 1
Site: HUBBELL FEDERAL 1

Report To: Clara Cardoza

382 Road 3100

Aztec, NM 87401

Entire Report Reviewed By:

Olivia Studebaker



Sr

<sup>°</sup>Qc

## TABLE OF CONTENTS



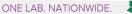
Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
BGT CELLAR L1151537-01	5
Qc: Quality Control Summary	6
Wet Chemistry by Method 300.0	6
Volatile Organic Compounds (GC) by Method 8015/8021	7
Semi-Volatile Organic Compounds (GC) by Method 8015	8
GI: Glossary of Terms	9
Al: Accreditations & Locations	10
Sc: Sample Chain of Custody	11

Semi-Volatile Organic Compounds  $\,$  (GC) by Method  $\,$ 8015

## SAMPLE SUMMARY

Collected by

10/19/19 15:15



Mt. Juliet, TN

Collected date/time Received date/time

KME

10/20/19 00:36

	I ust	$I \cup U_j$	
AB. NATIO	NWIDE		1

BGT CELLAR L1151537-01 Solid			K Hoekstra	10/17/19 08:35	10/18/19 09:0	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1365616	1	10/20/19 15:10	10/20/19 22:25	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1365978	1	10/19/19 08:00	10/20/19 12:59	DWR	Mt. Juliet, TN

WG1365852



















### CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

















SDG:

# SAMPLE RESULTS - 01

BGT CELLAR Collected date/time: 10/17/19 08:35





	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		
Chloride	824		10.0	1	10/20/2019 22:25	WG1365616	



### Volatile Organic Compounds (GC) by Method 8015/8021

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.000593	В	0.000500	1	10/20/2019 12:59	WG1365978
Toluene	ND		0.00500	1	10/20/2019 12:59	WG1365978
Ethylbenzene	ND		0.000500	1	10/20/2019 12:59	WG1365978
Total Xylene	ND		0.00150	1	10/20/2019 12:59	WG1365978
TPH (GC/FID) Low Fraction	ND		0.100	1	10/20/2019 12:59	WG1365978
(S) a,a,a-Trifluorotoluene(FID)	91.8		77.0-120		10/20/2019 12:59	WG1365978
(S) a,a,a-Trifluorotoluene(PID)	94.2		72.0-128		10/20/2019 12:59	WG1365978



# Semi-Volatile Organic Compounds (GC) by Method 8015

		( / /					0
	Result	Qualifier	RDL	Dilution	Analysis	Batch	°Al
Analyte	mg/kg		mg/kg		date / time		
C10-C28 Diesel Range	17.5		4.00	1	10/20/2019 00:36	WG1365852	9 5 6
C28-C40 Oil Range	7.38		4.00	1	10/20/2019 00:36	WG1365852	30
(S) o-Terphenyl	55.3		18.0-148		10/20/2019 00:36	WG1365852	





Wet Chemistry by Method 300.0

### WG1365616

## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1151537-01

### Method Blank (MB)

(MB) R3463039-1 10/20/19	16:50			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride				







(OS) L1150393-01 10/20/19 19:44	(DUP	) R3463039-3 10/20/19 19:53
---------------------------------	------	-----------------------------

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	1030	1060	5	2.83		20





#### L1151537-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1151537-01 10/20/19 22:25 • (DUP) R3463039-6 10/20/19 22:35

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chlorida	824	013	1	10.2		20







### Laboratory Control Sample (LCS)

(LCS) R3463039-2 10/20/19 17:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	207	104	90.0-110	

(OS) L1150393-05 10/20/19 20:03 • (MS) R3463039-4 10/20/19 20:12 • (MSD) R3463039-5 10/20/19 20:22

L1150393-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(00) 111000000 00 10	(00) 21100000 00 10/20/10 20:00 - (110) 10-00000 + 10/20/10 20:12 - (1100) 10-20/10 20:22												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Chloride	500	5340	5340	5580	0.000	47.9	1	80.0-120	ΕV	ΕV	4.51	20	

### WG1365978

## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC) by Method 8015/8021

L1151537-01

### Method Blank (MB)

(MB) R3463260-3 10/20	/19 10:59				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Benzene	0.000148	<u>J</u>	0.000120	0.000500	
Toluene	0.000152	<u>J</u>	0.000150	0.00500	
Ethylbenzene	U		0.000110	0.000500	
Total Xylene	U		0.000460	0.00150	
TPH (GC/FID) Low Fraction	0.0244	<u>J</u>	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	95.2			77.0-120	
(S) a,a,a-Trifluorotoluene(PID)	97.9			72.0-128	

### Laboratory Control Sample (LCS)

(LCS) R3463260-1 10/20	19 09:35				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Benzene	0.0500	0.0469	93.8	76.0-121	
Toluene	0.0500	0.0451	90.2	80.0-120	
Ethylbenzene	0.0500	0.0467	93.4	80.0-124	
Total Xylene	0.150	0.145	96.7	37.0-160	
(S) a,a,a-Trifluorotoluene(FID)			93.3	77.0-120	
(S) a,a,a-Trifluorotoluene(PID)			94.3	72.0-128	

### Laboratory Control Sample (LCS)

(LCS) R3463260-2 10/20/19 09:56					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.76	86.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			106	77.0-120	
(S) a,a,a-Trifluorotoluene(PID)			104	72.0-128	

















#### Page 23 of 26

### WG1365852

### QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Semi-Volatile Organic Compounds (GC) by Method 8015

L1151537-01

#### Method Blank (MB)

(MB) R3462878-1 10/19/19 23:46								
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte	mg/kg		mg/kg	mg/kg				
C10-C28 Diesel Range	U		1.61	4.00				
C28-C40 Oil Range	U		0.274	4.00				
(S) o-Terphenyl	69.5			18.0-148				







### Laboratory Control Sample (LCS)

(LCS) R3462878-2 10/19/19 23:58					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	33.3	66.6	50.0-150	
(S) o-Terphenyl			82.9	18.0-148	















(OS) L1150705-05 10/20/19 01:53 • (MS) R3462878-3 10/20/19 02:05 • (MSD) R3462878-4 10/20/19 02:18												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	50.0	5.86	36.8	37.9	61.9	64.1	1	50.0-150			2.95	20
(S) o-Terphenyl					73.6	79.3		18.0-148				

### **GLOSSARY OF TERMS**



### Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

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### Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (ovelyding commercial shippers) that have had control or pessession of the

Sample Results (Sr)
Sample Summary (Ss)

Custody (Sc)

date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates an
imes of preparation and/or analysis.

Qualifier	Description

В	The same analyte is found in the associated blank.
Е	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.

### **ACCREDITATIONS & LOCATIONS**

ONE LAB. NATIONWIDE.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accredition is only applicable to the host methods specified on each scene of accredition held by the contamination.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

#### State Accreditations

Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia <sup>1</sup>	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
lowa	364
Kansas	E-10277
Kentucky 16	90010
Kentucky <sup>2</sup>	16
Louisiana	Al30792
Louisiana 1	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico <sup>1</sup>	n/a
New York	11742
North Carolina	Env375
North Carolina <sup>1</sup>	DW21704
North Carolina <sup>3</sup>	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee 1 4	2006
Texas	T104704245-18-15
Texas <sup>5</sup>	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA
Wyoming	

#### Third Party Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA - ISO 17025 5	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP,LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

<sup>&</sup>lt;sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

#### Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Тс















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Clara Cardoza			ccardoza@hilcorp.com; khoekstra@hilc												Mour	55 Lebanon Rd nt Juliet, TN 37	122		
Project Description: Hubbell Federal # 1			City/State Collected: <b>Aztec, NM</b>				0								Phon	Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859			
Phone: <b>5055640733</b> Client Project #		Lab Project #				, MRO								L#	LII	51537			
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* Matrix: SS - Soil AIR - Air F - Filter	Remarks:														Sample Re	ceipt Che	cklist		
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