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	nCS1922051374
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID 372171

D	Е	N	Е	D

Contact email ccardoza@hilcorp.com Incident # (assigned by OCD) NCS1922051374			
Location of Release Source Latitude 36.645058 Longitude -107.925074 (NAD 83 in decimal degrees to 5 decimal places) Site Name Kutz Federal 11F Site Type Gas Well Date Release Discovered July 24, 2019 API# (if applicable) 30-045-326552 Unit Letter Section Township Range County L 20 028N 010W San Juan *Samples do not Meet Reclamation Standard: Tributary of Significant Within 300'	(assigned by OCD) NCS1922051374		
Latitude 36.645058 Longitude -107.925074 (NAD 83 in decimal degrees to 5 decimal places) Site Name Kutz Federal 11F Date Release Discovered July 24, 2019 API# (if applicable) 30-045-326552 Unit Letter Section Township Range County L 20 028N 010W San Juan *Samples do not Meet Reclamation Standard: Tributary of Significant Within 300'			
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Unit Letter Section Township Range County L 20 028N 010W San Juan *Samples do not Meet Reclamation Standard: Tributary of Significant Within 300'			
L 20 028N 010W San Juan Reclamation Standard Tributary of Significant Within 300'			
Tributary of Significant Within 300'			
Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)			
Crude Oil Volume Released (bbls) Volume Recovered (bbls)			
☐ Produced Water Volume Released (bbls) 8.3 Volume Recovered (bbls) 0			
Is the concentration of dissolved chloride in the produced water >10,000 mg/l? ☐ Yes ☐ No			
Condensate Volume Released (bbls) Volume Recovered (bbls)			
Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)			
Cause of Release Corrosion on the tank caused a leak within the bermed area.			

Form C-141 Page 2

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 response	onsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
, ,		
☐ Yes ⊠ No		
If VEC was immediate n	otice given to the OCD? By whom? To u	hom? When and by what means (phone, email, etc)?
II 1ES, was illillediate in	otice given to the OCD? By whom? To w	moin? When and by what means (phone, eman, etc)?
	Initial R	esponse
The responsible p	party must undertake the following actions immediat	ely unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
∑ The impacted area ha	s been secured to protect human health and	I the environment.
Released materials ha	we been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed a	nd managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
		remediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release no	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
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	f responsibility for compliance with any other federal, state, or local laws
C		
Printed Name:Clara Ca	ardoza	Title: Environmental Specialist
Signature:	Corl	Date: August 1, 2019
email:ccardoza@hil	corp.com	Telephone:505.564.0733
	<u>-</u>	1
OCD Only		
Received by:		Date:

□ Laboratory data including chain of custody

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
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 not 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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
<u>Characterization Report Checklist</u> : Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well. Field data	ls.
☐ Data table of soil contaminant concentration data	
Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	
Boring or excavation logs	
 □ Photographs including date and GIS information □ Topographic/Aerial maps 	
Mark Topographic/Actial maps	

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.

Form C-141 Page 4

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.	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: Uard, Cord	Date: _12/05/2019
email: <u>ccardoza@hilcorp.com</u>	Telephone: <u>505.564.0733</u>
OCD Only	
Received by:	Date:

Form C-141 Page 6 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 app must be notified 2 days prior to liner inspection)	licable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be no	tified 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 knowle and regulations all operators are required to report and/or file certain release notifications and p may endanger public health or the environment. The acceptance of a C-141 report by the OCE should their operations have failed to adequately investigate and remediate contamination that human health or the environment. In addition, OCD acceptance of a C-141 report does not relic compliance with any other federal, state, or local laws and/or regulations. The responsible parrestore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and Printed Name: Clara Cardoza Title: Environmental Signature: Date: 12/05/2019	perform corrective actions for releases which of does not relieve the operator of liability pose a threat to groundwater, surface water, leve the operator of responsibility for ty acknowledges they must substantially to the release or their final land use in re-vegetation are complete. Specialist
OCD Only	
Received by: Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operemediate contamination that poses a threat to groundwater, surface water, human health, or the party of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by: Date: Date: Title:	
Printed Name: Title:	
_	

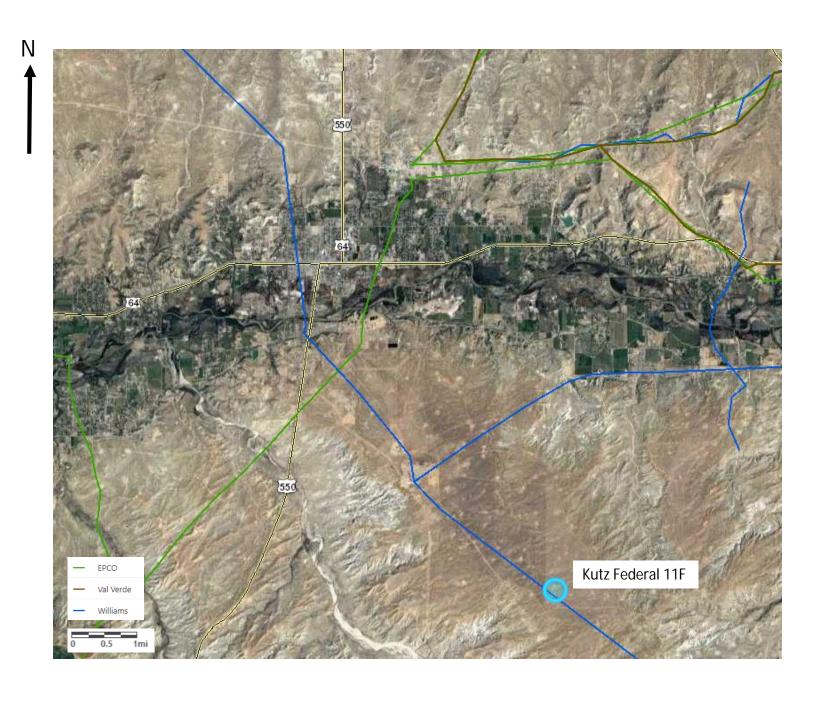
Executive Summary

On July 24, 2019 Hilcorp Energy had a release of 8.3 bbls of produced water at the Kutz Federal 11F. The release was due to corrosion at the bottom of the tank. The liquids were contained in the berm and impacted soil below the tank. Impacted soil was removed and taken to landfarm.

Confirmation sampling was conducted on August 8, 2019 witnessed by Emmanuel Adeloye of BLM-FFO in accordance with NMAC 19.15.29.12.D. This site is ranked >100 ft per NMAC 19.15.29.12.E. Sample came back in compliance with clean up action levels.



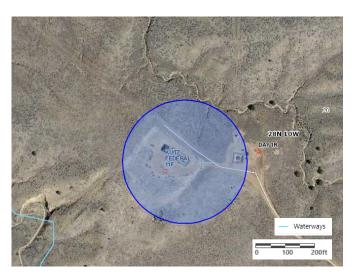
Release Area



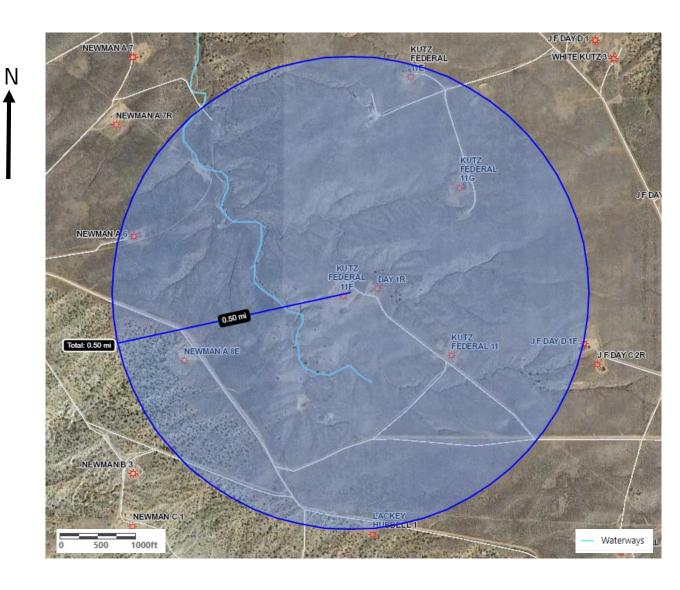
Distance to watercourse



Distance to watercourse approximately 250 ft



Water sources or courses within ½ mile



Depth to groundwater



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.

7/30/19 8:36 AM

WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)						s)	
Well Tag Po	POD Number	Q64 Q16 Q4		4 Sec	Tws	Rng	X	Y	Y
	SJ 04072 POD1		2 2	21	28N	10W	241353	406038	2 🌑
Driller License	e: 717	Driller Co	ompan	y: W	ESTE	RN WA	TER WEL	LS	
Driller Name:	HOOD, TERRY								
Drill Start Date	e: 12/26/2013	Drill Fini	sh Dat	e:	01/	05/2014	Plug	Date:	
Log File Date:	01/08/2014	PCW Rcv Date: Pipe Discharge Size:				Source: Shall			
Pump Type:					Estimated Yield: 1 GPM				
Casing Size: 5.00		Depth Well: 470 feet			Depth Water: 470 fee		470 feet		
Wa	ter Bearing Stratifi	cations:	Тор	Bot	tom	Descrip	tion		
101	1000	1011.0	5		20	Sandsto	ne/Gravel	/Conglom	erate
Casing Perforations:		Тор	Bot	tom					
			0		470				

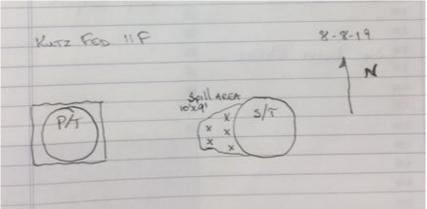
Elevation of SJ 04072 POD 6015 ft, elevation at the Kutz Fed is 5998 ft making an approximate groundwater depth of 453 ft

Depth to groundwater



Sample locations/field notes







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 Actio	n Level	-	20,000	-	-	-	2,500	1,000	10	-	-		50
Spill Area	08/08/19	n/a	830	ND	ND	ND	0.00	0.00	ND	ND	ND	ND	0

A confirmation sample was taken on 08/08/2019 and witnessed by Emmanuel Adeloye, BLM. The sample was in compliance with Table 1 of NMAC 19.15.29.12.

Clara Cardoza

From: Clara Cardoza

Sent: Tuesday, August 6, 2019 10:19 AM

To: cory.smith@state.nm.us; Abiodun Adeloye

Cc: Kurt Hoekstra

Subject: Confirmation Sampling

Please let this serve as notice for sampling at two Hilcorp Energy well sites.

Resample for Fullerton Federal 5F (NCS1916851647) – our previous sample arrived at the lab out of temperature. Sample Thursday August 8th at 8 a.m.

Sample for first time at the Kutz Federal 11F (API 30-045-32652) on Thursday August 8th at 10 a.m. (or immediately following the Fullerton Federal 5F sampling).

Please let me know if you have any questions or concerns.

Thank you,

Clara M Cardoza Environmental Specialist 505-564-0733 (O) 505-793-2784 (C)





ANALYTICAL REPORT

August 19, 2019















HilCorp-Farmington, NM

Sample Delivery Group: L1127672 Samples Received: 08/10/2019

Project Number:

Description: Kutz Federal #11F Confirmation Sample KUTZ FEDERAL #11F CONFIRMATION Site:

Report To: Clara Cardoza

382 Road 3100

Aztec, NM 87401

Entire Report Reviewed By: Washine R Richards



Sr

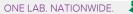
[°]Qc

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SAMPLE SUMMARY





SPILL AREA L1127672-01 Solid

Collected by K. Hoekstra

Collected date/time Received date/time 08/08/19 09:12

08/10/19 09:00



Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 300.0	WG1326670	5	08/13/19 09:50	08/13/19 12:35	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1330392	1	08/14/19 21:07	08/17/19 12:54	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1329660	1	08/16/19 16:01	08/17/19 00:00	KME	Mt. Juliet, TN

















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.

¹Cp



















Dapline R Richards

SAMPLE RESULTS - 01



SPILL AREA Collected date/time: 08/08/19 09:12

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		
Chloride	830		50.0	5	08/13/2019 12:35	WG1326670	



Volatile Organic Compounds (GC) by Method 8015/8021

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000500	1	08/17/2019 12:54	WG1330392
Toluene	ND		0.00500	1	08/17/2019 12:54	WG1330392
Ethylbenzene	ND		0.000500	1	08/17/2019 12:54	WG1330392
Total Xylene	ND		0.00150	1	08/17/2019 12:54	WG1330392
TPH (GC/FID) Low Fraction	ND		0.100	1	08/17/2019 12:54	WG1330392
(S) a,a,a-Trifluorotoluene(FID)	104		77.0-120		08/17/2019 12:54	WG1330392
(S) a,a,a-Trifluorotoluene(PID)	100		72.0-128		08/17/2019 12:54	WG1330392



Semi-Volatile Organic Compounds (GC) by Method 8015

- Totalis Original Composition (CO) Symmetrical Core							0	
	Result	Qualifier	RDL	Dilution	Analysis	Batch		°Al
Analyte	mg/kg		mg/kg		date / time			
C10-C28 Diesel Range	ND		4.00	1	08/17/2019 00:00	WG1329660		9 5 6
C28-C40 Oil Range	ND		4.00	1	08/17/2019 00:00	WG1329660		30
(S) o-Terphenyl	50.3		18.0-148		08/17/2019 00:00	WG1329660		







WG1326670

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Wet Chemistry by Method 300.0

L1127672-01

Method Blank (MB)

MB Result MB		
_	B Qualifier MB MDL	MB RDL
Analyte mg/kg	mg/kg	mg/kg
Chloride 1.74	0.795	10.0







(00) 14407400 04	00/10/10 11:10	(DLID) DO 4400 40 0	00/40/40 44:40
(OS) L112/438-01	08/13/19 11:10 •	(DUP) R3440048-3	08/13/19 11:18

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	ND	6.47	1	0.000		20





L1127706-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1127706-05 08/13/19 14:51 • (DUP) R3440048-6 08/13/19 15:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	2690	2490	20	7.72		20





Laboratory Control Sample (LCS)

(1	C.S	R3440048-2	08/13/19	10:34

, ,	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	190	95.0	90.0-110	

⁹Sc

L1127702-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1127702-01 08/13/19 15:50 • (MS) R3440048-7 08/13/19 15:59 • (MSD) R3440048-8 08/13/19 16:07

, ,	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	5670	6140	5730	94.4	10.7	1	80.0-120	E	<u>E V</u>	7.05	20

QUALITY CONTROL SUMMARY

WG1330392

Volatile Organic Compounds (GC) by Method 8015/8021

L1127672-01





(MB) R3441610-3 08/17/19	9 12:10				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Benzene	U		0.000120	0.000500	
Toluene	U		0.000150	0.00500	
Ethylbenzene	U		0.000110	0.000500	
Total Xylene	U		0.000460	0.00150	
TPH (GC/FID) Low Fraction	0.0720	<u>J</u>	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120	
(S) a,a,a-Trifluorotoluene(PID)	101			72.0-128	

Laboratory Control Sample (LCS)

(LCS) R3441610-1 08/17/19	(LCS) R3441610-1 08/17/19 11:03										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/kg	mg/kg	%	%							
Benzene	0.0500	0.0518	104	76.0-121							
Toluene	0.0500	0.0561	112	80.0-120	[c						
Ethylbenzene	0.0500	0.0550	110	80.0-124							
Total Xylene	0.150	0.162	108	37.0-160							
(S) a,a,a-Trifluorotoluene(FID)			106	77.0-120							
(S) a,a,a-Trifluorotoluene(PID)			102	72.0-128							

Laboratory Control Sample (LCS)

(LCS) R3441610-2 08/17/19 11:25							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/kg	mg/kg	%	%			
TPH (GC/FID) Low Fraction	5.50	5.92	108	72.0-127			
(S) a,a,a-Trifluorotoluene(FID)			109	77.0-120			
(S) a,a,a-Trifluorotoluene(PID)			110	72.0-128			

Semi-Volatile Organic Compounds (GC) by Method 8015

WG1329660

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1127672-01

Method Blank (MB)

(MB) R3441376-1 08/16/19 23:22							
	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	64.0			18.0-148			







Laboratory Control Sample (LCS)

(LCS) R3441376-2 08/16/1	(LCS) R3441376-2 08/16/19 23:35								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	mg/kg	mg/kg	%	%					
C10-C28 Diesel Range	50.0	27.6	55.2	50.0-150					
(S) o-Terphenyl			67.1	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.

















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 Custody (Sc)	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 (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.

Qualifier	Description
E	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.

Sample Results (Sr)

Sample Summary (Ss)

times of preparation and/or 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 and

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.

* Accreditation is only applicable to the host methods specified no each screditation bed by Pace National.

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

State Accreditations

** *	10000
Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
lowa	364
Kansas	E-10277
Kentucky 16	90010
Kentucky ²	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 ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LA000356
South Carolina	84004
South Dakota	n/a
Tennessee 14	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA
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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

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ 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.

















			Billing Information:				Analysis / Container / Preservative								Chain of Custody Page of			
			ATTN: Clara Cardoza			Pres Chk										Pace A	Inalytical *	
															4			
Report to: Clara Cardoza				a@hilcorp.	com; khoeks	tra@hilo										12065 Lebanon Rd Mount Juliet, TN 371 Phone: 615-758-585		
Project Description: Kutz Federal # 11F Confirmation Sample				City/State Collected: A	ztec, NM		0									Phone: 800-767-585 Fax: 615-758-5859	■\$ \$\$2 ±3	
Phone: 5055640733 Fax:	Client Project			Lab Project	•		GRO, MRO					Mills Mills				G08:		
Collected by (print): K Hoekstra	Site/Facility II Kutz Fede			P.O.#			DRO, GF									Acctnum: HILO	CORANM	
Collected by (signature): Rush? (Lab MUST Be I			Day	Quote#			5 - DR	BTEX 8021	Chloride 300.0							Template: Prelogin:		
		y (Rad Only) ay (Rad Only)	Date	Results Needed	No.	-801						20-16			TSR: PB:			
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntr	-	BTE)	Chlo							Shipped Via:	Sample # (lab only)	
Spill Area	Comp	SS		8-8-201	9 9:12	: 😕 1	×	X	×								-01	
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S and					7.52					30.5								
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other	Remarks:					pH Temp Flow Other			COC S	Sample Receipt Checklist COC Seal Present/Intact: NP Y N COC Signed/Accurate: Bottles arrive intact: N N Correct bottles used: N N								
	Samples returned via:UPSFedExCourier				Tracking # 4794 87				41	1 5974				Suff	icient	volume sent: If Applicab	le ZY _N	
Relinquished by: (Signature) Date:			7-19 6:50		Received by: (Trip Blank Received: Yes / No HCC / MeoH TBR			Prese	Preservation Correct/Checked: _Y _N RAD SCREEN: <0.5 mR/hr					
Refin quished by : (Signature)				Time:	Received by: (76.4		Temp: A31316°C Bottles Received:				If pres	If preservation required by Login: Date/Time				
elin quished by : (Signature) Date:				Time:	Received for la	ature)	ture) Date:							Hold: Co				