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	nVF1828341427
District RP	
Facility ID	
Application ID	

NMOCD **Release Notification** NOV 29 2018 **Responsible Party** DISTRICT III Responsible Party Hilcorp Energy Company OGRID - 372171 Contact Name Jennifer Deal Contact Telephone (505) 801-6517 Contact email ideal@hilcorp.com Incident # nVF1828341427 Contact mailing address 382 Road 3100, Aztec NM 87410 Location of Release Source Latitude 36.7962799 Longitude -108.0538712 (NAD 83 in decimal degrees to 5 decimal places) Site Name Jose Jaquez 1 Site Type Gas Well Date Release Discovered 9/30/2018 @ 10:30am API# 30-045-09341 Unit Letter Section Township County Range K 24 30N 12W San Juan Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls) Is the concentration of dissolved chloride in the Yes No produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Other (describe) Volume/Weight Released (provide units) ~3 Volume/Weight Recovered (provide units) gallons Screw Oil Cause of Release A release of ~3 gallons of screw oil was discovered by the landowner who called it in to the SJC Emergency dispatch. Hilcorp was notified and the operator went to location. It was discovered that the compressor was installed incorrectly and the compressor blew down and sprayed screw oil on approximately 5'x5' area inside the location's fence and an 11'x5' are on the landowners property for a total area of 16'x5'. Operator shut in the compressor.

Fields, Vanessa, EMNRD

From:

Fields, Vanessa, EMNRD

Sent:

Thursday, November 29, 2018 8:14 AM

To:

Jennifer Deal

Cc:

Smith, Cory, EMNRD

Subject:

RE: Final C-141 - Jose Jaquez 1 Determining Groundwater

Good morning Jennifer,

I have reviewed the final C-141 and everything looks good except HilCorps determination of depth to groundwater.

I have provided what I have determined depth to ground water to be at the Jose Jaquez #001.

Jose Jaquez #001 elevation 5535'

McDonald Well SJ 02616 well depth to groundwater is 5' with an elevation of 5523

Total: subtract 5535-5523= 12' + 5' groundwater = 17' depth to groundwater at the Jose Jaquez #001.

Please let me know if you have any questions.



Thank you,
Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Jennifer Deal < jdeal@hilcorp.com>

Sent: Tuesday, November 27, 2018 4:46 PM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>

Subject: [EXT] Final C-141 - Jose Jaquez 1

Good afternoon,

Please find attached the final C-141 and report for the release that occurred at the Jose Jaquez #1. A paper copy will be mailed out tomorrow. Let me know if you have any questions.

Thank you,

Jennifer Deal
Environmental Specialist
Hilcorp Energy – L48 West
ideal@hilcorp.com
382 Road 3100
Aztec, NM 87410
Office: (505) 324-5128

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	nVF1828341427
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.	100
What is the shallowest depth to groundwater beneath the area affected by the release?	(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.	tical extents of soil
Characterization Report Checklist: 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	S.
Field data 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 ☐ 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.

Form C-141 Page 4

State of New Mexico Oil Conservation Division

Incident ID	nVF1828341427
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 OCD does not relieve the operator of liab eat to groundwater, surface water, human	for releases which may endanger ility should their operations have health or the environment. In
Printed Name:Jennifer Deal	Title:Environmental Specialist	
Signature: Agran for Deal	Date:11/27/2018	
email:jdeal@hilcorp.com	Telephone:(505) 324-512	8
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.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

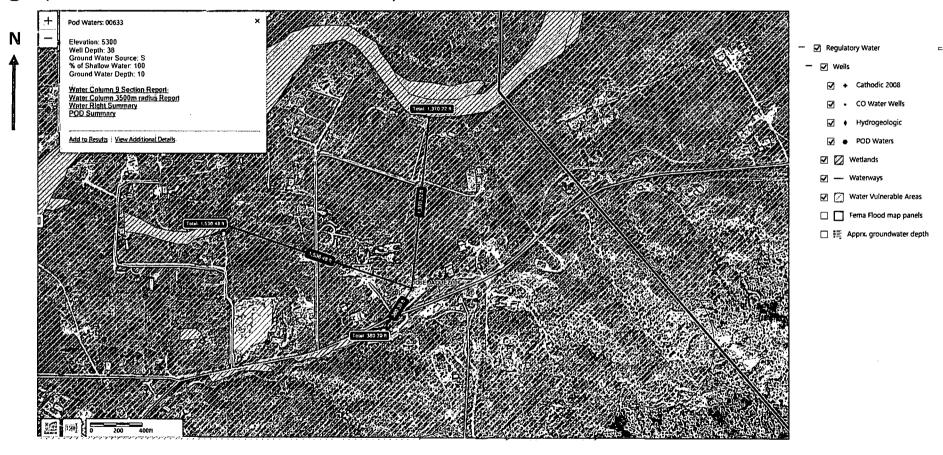
Incident ID	nVF1828341427
District RP	
Facility ID	
Application ID	

Closure

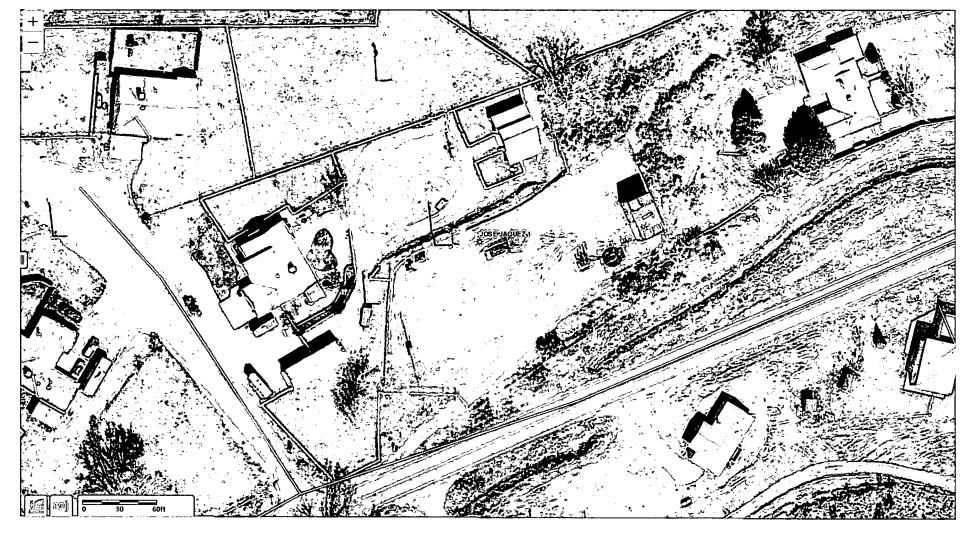
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

Photographs of the remediated site prior to backfill or photos o must be notified 2 days prior to liner inspection)	f 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	
	diate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially litions that existed prior to the release or their final land use in
	Title: Environmental Specialist
Signature: Gernifu Deal	Date:11/27/2018
email:jdeal@hilcorp.com Tele	phone: <u>505-801-6517</u>
Received by: Verosse Fields	Date: 11/29/2018
	liability should their operations have failed to adequately investigate and ter, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by:	Date: 1112912018
Printed Name: Vanssa Fields	Title: Environmental Specalist
Cote- Dopte	to Ground Water 17'

ose Jaquez #1 – Considered a major release due to distance from residential area <200 ft and spray affected landowners land. Depth to ground water is 254ft/bgs (5524-5300=224 + 30 = 254)

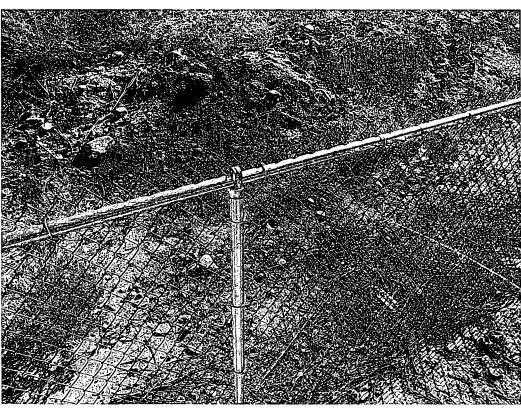


lose Jaquez 1 – Aerial/Facility Layout



²ictures of release





Pictures of Release



Depth to water determination



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

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

	uoseu)		(4.	(domina are ammers to impers)		(IVIDOS OTIVIDADEIGIS)		.,(
POD Number	Code	POD Sub- basin	County	- 1	Q		Sec	Tws	Rng	X.	Y	Depth Well Depth V	a 1	ater lumr
SJ 00404		SJAR	SJ	. 3	1	3	24	30N	12W	.227165	4076515*.	54	`44	10
SJ 00633		SJAR	SJ		3	1	24	30N	12W	227279	4077017*	38	10	[2
SJ 00686		SJAR	SJ	1	1	3	24	30N	12W	.227165	4076715*	. 20	10	1
SJ 00691		SJAR	SJ		1	3	24	30N	12W	227266	4076616*	30	15	1
SJ 01511		SJAR	SJ		2	3	24	30N	12W	227667	4076601*	60	30	3
SJ 01680		SJAR	SJ		4	2	. 24	30N	12W	228485	4076972*	22	4	1
SJ 01681		SJAR	SJ		4	2	24	30N	12W	228485	4076972*	. 22	4	1
SJ 01682		SJAR	SJ		4	1	24	30N	12W	227680	4077002*	22	4	1
SJ 02616		SJAR	SJ		4	1	24	30N	12W	227680	4077002*	27	5	2
											Average Depth t	o Water.	14 fee	:t
											Minimu	m Depth:	4 fee	:t

Maximum Depth:

44 feet

Record Count: 9

PLSS Search:

- Section(s): 24

Township: 30N

*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.

11/27/18 1:19 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Remediation Action

- Hilcorp Energy cleaned up the affected areas and confirmation sampling occurred on 10/2/18 where two composite samples were taken (Sample A & B 10/2). Sample A came back under NMOCD standards but Sample B did not.
- Additional clean up was done and confirmation sampling occurred on 10/31/18 where one composite sample was taken (Sample B 10/31).
 This sample came back under NMOCD standards

Data table of soil contaminant concentration data

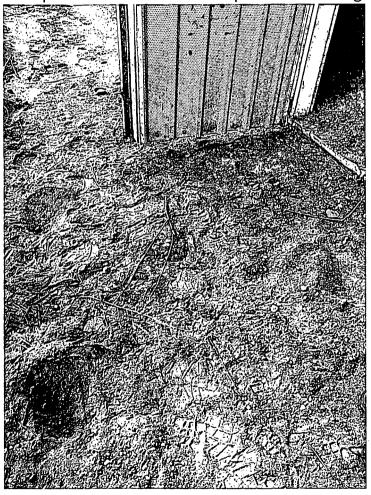
					NALYTICAL RESULTS						
	·				OSE JAQUEZ 1						
		· · · · · · · · · · · · · · · · · · ·		HILCOR	PENÉRGY - L48 WEST						
		[1 ch.		
Soil Sample Identification	Sample	Field	Benzene	Toluene	Ethylbenzene (mg/kg)	Total	Total	GRO	DRO	MRO	ТРН
Sort Sambie Weutrigation	Date	Headspace	(mg/kg)	(mg/kg)	rmaneirene (mg/kg)	Xylenes	BTEX	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Sample A - Landowner	10/2/2018	\$ 6.734 A \$21 -	<0.0005	<0.005	<0.0005	<0.0015	<0.005	<0.10	10.90	55.90	66.80
Sample B - Wellsite	10/2/2018		<0.0005	<0.005	<0.0005	<0.0015	<0.005	<0.10	55.40	217.00	272.40
Sample B - Wellsite	10/31/2018		0.00057	<0.005	<0.0005	<0.0015	<0.005	<0.10	<4.00	7.92	7.92
NMOCD Standar	ds	NE	10	NE	NE	NE	50	NE	NE	NE	100

²hotographs − 10/2/18 Sampling Event



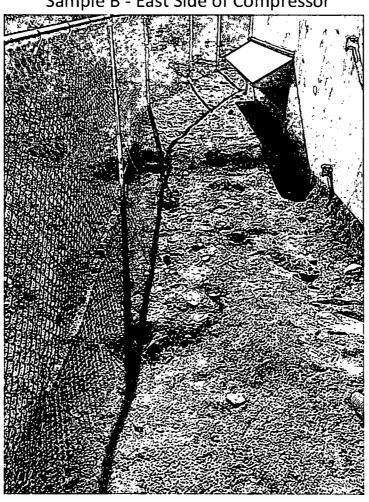


Sample B – East side of Compressor Building

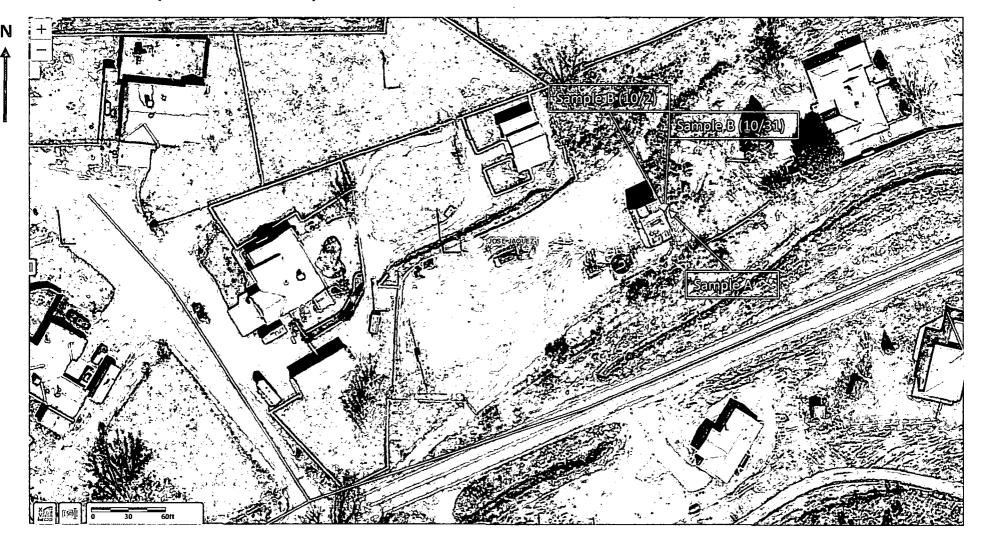


²hotographs − 10/31/18 Sampling Event

Sample B - East Side of Compressor



Aerial Map of Sample Points





ANALYTICAL REPORT

October 09, 2018

HilCorp-Farmington, NM

Sample Delivery Group:

L1031853

Samples Received:

10/04/2018

Project Number:

Description:

Site:

JOSE JAQUEZ #1

Report To:

Jennifer Deal

382 Road 3100

Aztec, NM 87401

Entire Report Reviewed By:

Olivía Studebaker Project Manager

Results relate only to the tiens tested or calibrated and are respined as rounded values. The rest respin shall not be proprieted except in full without writing approvilled the laboratory. Where emplicatives sensitiving conducted by pack national, is performed per guidance provided in laboratory standard operating procedures 60302, 063033, and 063034.

³Ss ⁴Cn ⁵Sr

⁷Gl

⁹Sc

SAMP			A 1	Λ Ν΄ Λ	-
$\sim \Lambda MP$	ı. ⊢	-> L 4:1V	/I I	N/I /A	\mathcal{H}
		O 1 V	/ [1717	1. / 1/

Collected by

Josh Jones

Preparation

10/05/18 10:23

10/08/18 21:26

date/time

Dilution

1

ONE LAB. NATIONWIDE.

Collected date/time	Received date/time	1
10/02/18 09:36	10/04/18 08:45	Ср
Analysis	Analyst	
date/time		$^{2}T_{C}$
10/05/18 14:10	ВМВ	
10/09/18 09:13	AAT	

	Collected by	Collected date/time	Received date/time
SAMPLE B L1031853-02 Solid	Josh Jones	10/02/18 09:35	10/04/18 08:45

Batch

WG1176259

WG1177890

SAMPLE A L1031853-01 Solid

Volatile Organic Compounds (GC) by Method 8015/8021

Semi-Volatile Organic Compounds (GC) by Method 8015

Method

Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Volatile Organic Compounds (GC) by Method 8015/8021	WG1176259	1	10/05/18 10:23	10/05/18 14:32	- BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1177890	1	10/08/18 21:26	10/09/18 09:38	AAT







PAGE:

Ср

²Tc

³Ss

⁵Sr

Qc 7

8 1

⁹Sc

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.

Olivia Studebaker Project Manager

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:

SAMPLE A

SAMPLE RESULTS - 01

11031853

ONE LAB. NATIONWIDE.

Collected date/time: 10/02/18 09:3

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	10/05/2018 14:10	WG1176259
Toluene	ND		0.00500	1	10/05/2018 14:10	WG1176259
Ethylbenzene	ND		0.000500	1	10/05/2018 14:10	WG1176259
Total Xylene	ND		0.00150	1.	10/05/2018 14:10	WG1176259
TPH (GC/FID) Low Fraction	ND		0.100	1	10/05/2018 14:10	WG1176259
(S) a,a,a-Trifluorotoluene(FID)	96.2		77.0-120		10/05/2018 14:10	WG1176259
(S) a.a.a-Trifluorotoluene(PID)	97.6		72.0-128		10/05/2018 14:10	WG1176259

²Tc ³Ss

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	10.9		4.00	1	10/09/2018 09:13	 WG1177890
C28-C40 Oil Range	55.9		4.00	1	10/09/2018 09:13	 <u>WG1177890</u>
(S) o-Terphenyl	99.5		18.0-148		10/09/2018 09:13	WG1177890

[©]Qc

⁷GI

8 Al

⁹Sc

SAMPLE B

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.

me: 10/02/18 09:3!

L103185

Volatile Organic Compounds (GC) by Method 8015/8021

J -	,									
	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>		,		_
Analyte	mg/kg		mg/kg		date / time					
Benzene	ND		0.000500	1	10/05/2018 14:32	WG1176259				
Toluene	ND		0.00500	1	10/05/2018 14:32	WG1176259				L
Ethylbenzene	ND		0.000500	1	10/05/2018 14:32	WG1176259				[
Total Xylene	ND		0.00150	1.	10/05/2018 14:32	WG1176259				-
TPH (GC/FID) Low Fraction	ND		0.100	1	10/05/2018 14:32	WG1176259	south to the section of the section	TO ANY AND PROPERTY AND AND ADDRESS OF THE PARTY OF THE P	Andrews and an arrangement of the second	
(S) a,a,a-Trifluoròtoluene(FID)	96.8		77.0-120		10/05/2018 14:32	WG1176259				
(S) a a a-Trifluorotaluene(PID)	98.2		72.0-128		10/05/2018 14:32	WG1176259				L

Tc 3Ss

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg		date / time		
C10-C28 Diesel Range	55.4		4.00	1	10/09/2018 09:38	WG1177890	- -
C28-C40 Oil Range	217		4.00	1	10/09/2018 09:38	WG1177890] [
(S) o-Terphenyl	87.6		18.0-148	of section is no called one Wine T-	10/09/2018 09:38	WG1177890	Ľ

⁷Gl

⁸AI

⁹Sc

SDG:

WG1176259

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1031853-01,02

Method Blank (MB)

Volatile Organic Compounds (GC) by Method 8015/802

(MB) R3348333-4 10/05/1	8 12:20				
	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	Ū		0.000460	0.00150	
TPH (GC/FID) Low Fraction	0.0334	<u>J</u>	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120	
(S) a,a,a-Trifluorotoluene(PID)	102			72.0-128	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.0500	0.0472	0.0480	94.4	96.1	76.0-121			1.77	20
Toluene	0.0500	0.0482	0.0492	96.4	98.4	80.0-120			2.04	20
Ethylbenzene	0.0500	0.0472	0.0487	94.3	97.4	80.0-124			3.18	20
Total Xylene	0.150	0.147	0.151	97.8	101	37.0-160			2.96	
(S) a,a,a-Trifluorotoluene(FID)				100	100	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)	transfer of the second of the second	MARKETT LITTE & TRANSPORT TO THE	The second secon	101	101	72.0-128	er el nemerge salake erns in i mensemblembelger.	- 12		

Laboratory Control Sample (LCS)

(LCS) R3348333-3 10/05	5/18 11:19				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.07	92.2	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)	*		103	77.0-120	
(S) a,a,a-Trifluorotoluene(PID)			109	72.0-128	

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:

Method Blank (M	B)										
MB) R3348890-1 10/09	9/18 08:35						<u> </u>				
	MB Result	MB Qualifier	MB MDL	MB RDL							
Analyte	mg/kg·		mg/kg	mg/kg							
C10-C28 Diesel Range	U		1.61	4.00			-				
28-C40 Oil Range	U		0.274	4.00						· · · · · · · · · · · · · · · · · · ·	
(S) o-Terphenyl	82.3			18.0-148)	and the south of the south of the south			 Carrier and a contract of the
								•			
								•			
aboratory Contr	ol Sample (L	CS) • Labo	ratory Cor	trol Samp	le Duplicate	e (LCSD)		·			
					le Duplicate	e (LCSD)					
		SD) R3348890-			le Duplicate	e (LCSD)	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
LCS) R3348890-2 10/0	09/18 08:48 • (LCS	SD) R3348890-	-3 10/09/18 09	:01			LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %	
Laboratory Contr (LCS) R3348890-2 10/0 Analyte C10-C28 Diesel Range	09/18 08:48 • (LCS Spike Amount	SD) R3348890- LCS Result	-3 10/09/18 09 LCSD Result	:01	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD % 4.36		

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.

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.
Ú	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.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the resul 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.
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.
Sample Results (Sr)	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.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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QU	all	Ш	er

Description

The identification of the analyte is acceptable; the reported value is an estimate.

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Cn

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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 test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia 1	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 14	2006
Louisiana ¹	LA180010	Texas .	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

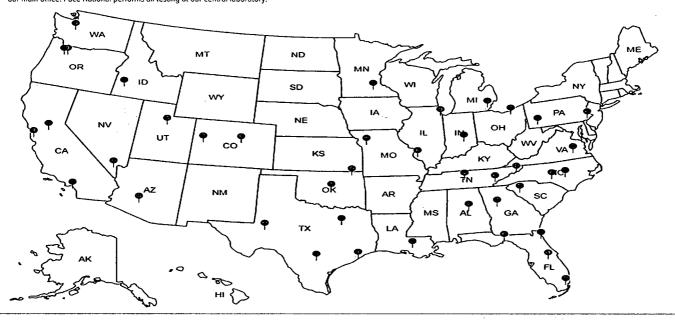
Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	Adsu	P330-15-00234
EPA_Crypto	TNOOO3		

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.



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ANALYTICAL REPORT

November 08, 2018

HilCorp-Farmington, NM

Sample Delivery Group:

L1039915

Samples Received:

11/01/2018

Project Number:

JOSE JAQUEZ #1

Description:

Report To:

Jennifer Deal

382 Road 3100

Aztec, NM 87401

Entire Report Reviewed By:

Olivia Studebaker

Project Manager

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ONE LAB. NATIONWIDE.

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ONE LAB. NATIONWIDE.

SAMPLE B L1039915-01 Solid	Collected by Kurt	Collected date/time 10/31/18 09:10	Received date/time 11/01/18 08:45		
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Volatile Organic Compounds (GC) by Method 8015/8021	WG1191333	1	11/01/18 13:57	11/06/18 04:11	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1191819	1	11/05/18 20:55	11/06/18 16:49	KME

^¹Cp

²Tc

^⁴Cn

⁵Sr

[©]Qc

¹Gl

9

Sc

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.

Olivia Studebaker

Project Manager

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SAMPLE B

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

cted date/time: 10/31/18 09:10

1103991

Volatile Organic Compounds (GC) by Method 8015/8021

•	Result	Qualifier	RDL	Dilution	Analysis	Batch						
Analyte	mg/kg		mg/kg		date / time							
Benzene	0.000568	<u>B</u>	0.000500	1	11/06/2018 04:11	WG1191333						
Toluene	ΝĎ		0.00500	1	11/06/2018 04:11	WG1191333						
Ethylbenzene	ND		0.000500	1	11/06/2018 04:11	WG1191333						
Total Xylene	NĎ		0.00150	1	11/06/2018 04:11	WG1191333				7		
TPH (GC/FID) Low Fraction	ND	The part of the contract of th	0.100	1	11/06/2018 04:11	WG1191333	the second section of the second sections of the second section sectio					
(S) à,a,a-Trifluorotoluene(FID)	90.4		77.0-120		11/06/2018 04:11	WG1191333						
(S) a,a,a-Trifluorotoluene(PID)	86.0		72.0-128		11/06/2018 04:11	WG1191333						

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result	<u>Qualifier</u>	RDL	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		
C10-C28 Diesel Range	ND		4.00	1	11/06/2018 16:49	WG1191819	
C28-C40 Oil Range	7.92	- 1	4.00	1	11/06/2018 16:49	WG1191819	
(S) o-Terphenyl	67.5		18.0-148		11/06/2018 16:49	WG1191819	

⁷GI ⁸AI

⁹Sc

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QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC) by Method 8015/8021

L1039915-01

Method Blank (MB)

(MB) R3357300-5 11/06/1	8 01:42				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Benzene	0.000449	<u>7</u>	0.000120	0.000500	
Toluene	0.000505	Ī	0.000150	0.00500	
Ethylbenzene	0.000182	Ī	0.000110	0.000500	
Total Xylene	Ü		0.000460	0.00150	
TPH (GC/FID) Low Fraction	Ū		0.0217	0.100	
(S) a,a;a-Trifluorotoluene(FID)	92.6			77.0-120	
(S) a,a,a-Trifluorotoluene(PID)	87.4			72.0-128	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.0500	0.0427	0.0469	85.4	93.7	76.0-121			9.35	20
Toluene	0.0500	0.0435	0.0476	87.1	95.3	80.0-120			8.98	20
Ethylbenzene	0.0500	0.0425	0.0467	85.0	93.5	80.0-124			9.50	20
Total Xylene	0.150	0.132	0.145	87.7	96.3	37.0-160			9.42	20
(S) a,a,a-Trifluorotoluene(FID)				92.3	91.9	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)	The second secon	Man for a fire for the form of		86.4	85.7	72.0-128				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

# OC PROF 7000 0 44/00	#0.00.00 #.00	D) D00E7000	4 44/06/40 04 0	~							
(LCS) R3357300-3 11/06	/18 00:39 • (LCS	D) R335/300	-4 11/06/18 01:0	U							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
TPH (GC/FID) Low Fraction	5.50	5.45	5.53	99.1	101	72.0-127			1.57	. 20	militaria - 2 Martin - Agraph (Street and Militaria) and American construction of Street and Street American Street
(S) a,a,a-Trifluorotoluene(FID)	eranera en			106	107	77.0-120					
(S) a,a,a-Trifluorotoluene(PID)				97.7	97.9	72.0-128					

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WG1191333

TY CONTROL SUMMARY

L1039915-01

Volatile Organic Compounds (GC) by Method 8015/8021

L1040461-02	Onginai	Sample	(O2) • Mailix	shike (M2) •	Marinx Shike	Dubilcar	e (MSD)

(OS) L1040461-02 11/06/1	, ,		•	•								•
•	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	%	%		%			%	%
Benzene	0.0500	ND	2.98	3.01	59.1	59.5	100	10.0-155			0.740	32
Toluene	0.0500	ND	-3.19	3.35.	63.0	66.2	100.	10.0-160		ann same ne san same ann ann ann ann a	4.76	34
Ethylbenzene	0.0500	ND	3.63	4.11	72.5	82.3	100	10.0-160			12.6	32
Total Xylene	0.150	2.59	13.0	19.5	69.5	113	100	10.0-160	<u> 16</u>	<u>J3</u>	39.7	32
(S) a,a,a-Trifluorotoluene(FID)					91.4	91.1		77.0-120	-			
(S)					84.3	85.3		72.0-128				and a second of the second of

L1040461-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1040461-02 11/06/18	3 10:10 • (MS) R3	3357300-8 11/0	06/18 11:14 • (N	/ISD) R3357300	9 11/06/18	11:35						
	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	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	135	295	274	29.1	25.3	100	10.0-151			7.33	28
(S). a,a,a-Trifluorotoluene(FID)					90.1	90.9		77.0-120		The second secon		
(S) a,a,a-Trifluorotoluene(PID)					88.6	88.8		72.0-128				

WG1191819 QUALITY CONTROL SUMMARY ONE LAB. NATIONWIDE. Semi-Volatile Organic Compounds (GC) by Method 8015 L1039915-01 Method Blank (MB) (MB) R3357494-1 11/06/18 15:09 MB Result MB MDL MB RDL MB Qualifier Analyte mg/kg mg/kg mg/kg C10-C28 Diese! Range U 4.00 1.61 . U 4.00 C28-C40 Oil Range 0.274 (S) o-Terphenyl 18.0-148 83.2

Laboratory Contro	ol Sample (Li	CS) • Labo	ratory Con	trol Samp	le Duplicate	e (LCSD)		•			•		
(LCS) R3357494-2 11/06/18 15:22 • (LCSD) R3357494-3 11/06/18 15:38													
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits			
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%			
C10-C28 Diesel Range	50.0	32.1	34.6	64.2	69.2	50.0-150			7.50	20	Emilion and an emilion of the control of the contro		

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SDG:

GLOSSARY OF TERMS

ONE LAB. NATIONWIDE.

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.

Abbreviations and Definitions

Abbreviations an	d 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.
Ų	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.
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Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
Qualifici	Description

В	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCOUNT: PROJECT:

SDG:

53

Ср

Тс

Ss

Cn

'Sr

'Qc

GI

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.

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State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ¹⁶	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

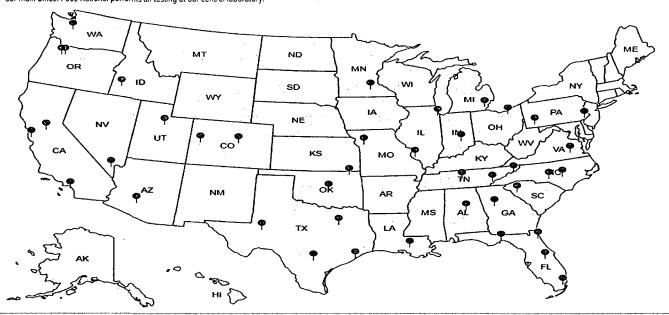
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

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.



ACCOUNT:

Address: 382 Road 3100 Artec, NM 87401. Report To: JENNIFER DEAL	PO Box 61529 Houston, TX,77208 Email To:	4			i														
Report To: JENNIFER DEAL	Houston, TX,77208	4								ALL SHADED AREAS are for LAB USE ONLY									
REPORT TO: JENNIFER DEAL	Email Toy Sea dis	4			├─		Cor	italne	r Prese	rvativ	e Type	2 4 4		Lab Project Manager:					
REPORT TO: JENNIFER DEAL	Email Tor, Seven				ļŢ					_	T				laphne Richards				
Copy To:	Site Collection Info/	Kneeksting Chilean p. com				** Preservative Typest (1) nitric acid. (2) sulfunc acid. (3) hydrochlonz acid. (4) sod um hydrocide. (5) sinc acetate. (6) methanol. (7) sodium bisulfate. (8) sodium thiosulfate. (9) hexano. (A) ascorbic acid. (8) ummonium sulfate. (C) ammonium hydroxido: (0) TSP. (U) Unpreserved. (O) Other) sod um hydraúdz, (5) zinc acetate, orbic acid, (8) ummanium sulfate,					
Customer Stelect Name/Number	Senter - Goldney/	itys Time Jone G	ollected	ga iki sala					Anal	/S03		,			oble/Une:				
	$\int d$	PT MT.	दा	et	0						1			1.	ample American Thronist:				
Phone: 505-486-9543 Site/Facility ID #:	uez # 1	Compliance Monitor	ing?		MED									Cueto:	dy Seals Present/Intach V N RX dy Signatures Present V N NA ttor Signature Present ZN NA				
Collected by (print): Purchase Order#: Quote #:		DW RWS ID #: DW Location Code:			¢.eg									Porre Esti	es Invast IN MA cu Hottles IN MA cu non Volume IN MA				
Collected by Significant Turnaround Date Requi	irred: Immediately Packed on Ice;									:				VOA - DEDA	es Received or Ice X N NA Readapers Acceptable Y N NA Regulated Scalls Y N NA				
Sample Disposal: Dispose as appropriate Return Same Day 12 Day 3 Day 3 Day 3 Day 3 Day 3 Day 3 Day 3 Day		Fleid Filtered (if appl Yes No Analysis;		:	80/5 - DRD,	1208								Resid Cl St Nampl	The in Holding Time Till IA dual Chicring Present Y N M trips: I N Till IA Till IA				
 Matrix Codes (Insert in Matrix box below): Drinking Wate Product (P), Soil/Solid (St.), Oil (OL), Wipe (WP), Air (AR), 	rissue (TS), Bioassay (8				280	×								्रिक्तमः ।	de Fredere Peripsi Seripsi Se Olivii				
Customes Semple ID Matrix • Comp./	Collected (or Composite Start)	Composite End	Res.	i) of	12	13日日									rapit (Samments				
SAMPLE B 55 Comp	 			1	X	X									039 915-01				
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Customer Remarks / Special Conditions / Possible Hazards;	Type of Ice Used:	Wet Blue	Dry	None		SHOR	T HOL	OS PR	ESENT	1272	naurs)	; Y	N	N/À	LAB Samplé Temperature Info:				
RAD SCREEN: <0.5 mR/hr	Porking Material Us	ed:				LAB T	rackin	H II: L	+430	ø	34	22	33	94	Temp Blank Received: Y N NA				
HError	Radthem sample(s)	screened (<500 cpm):	Y N	NA NA			les rec EDEX			Cifent		purles		ace Courler	Therm IDs: BAR Cooler 1 Temp. Upon Receipt 2.500				
1/2/1/14	te/Time: /0/ 25	Received by/Compan	ıγ: (Signa	iture)			Date/T		-	T.11		MTJL	بخفائها	SE ONLY	Cooler 1 Therm Corr. Factor 81 of				
	0 - 31-18 te/Time:	Received by/Compan	un (Class	darim L			lake Per				Table				Cooler 1 Corrected Temp 3.7 oC				
Remarks an company, talking of	ei inne	ucceived pAl Comban	iy⊹ (≥igna	rinisi	Date/Time:				Acctrium: HILCORANM				Comments: Trip.Blank Received: V N NA						
Relinquished by/Company: (Signature) Da	z/IIme:	Received by/Compan	ıy: (Signa	iture)	Date/Time: 10 4 9 45				Templato: Prelogin: PM: 288 - Daphne Richards P8:			-1.4	HCL MeOH TSP Other						
		M						3				Richards	NonConformance(s) Page YES / NO ol						