

SITE INFORMATION					
Report Type: Work Plan 1RP-5641					
<b>General Site Information:</b>					
<b>Site:</b>	Baish "A" Battery				
<b>Company:</b>	ConocoPhillips				
<b>Section, Township and Range</b>	Unit H	Sec. 21	T 17S	R 32E	
<b>Lease Number:</b>	Associated API No. N/A				
<b>County:</b>	Lea				
<b>GPS:</b>	32.822975			-103.764358	
<b>Surface Owner:</b>	Federal				
<b>Mineral Owner:</b>	N/A				
<b>Directions:</b>	Depart from Maljamar (Hwy. 82/Maljamar Rd.). Head south on Maljamar Rd. for 2.29 miles. Turn right onto dirt road. Head west for 450 feet. Arrive at location.				
<b>Release Data:</b>					
<b>Date Released:</b>	6/19/2019				
<b>Type Release:</b>	Produced Water/Oil				
<b>Source of Contamination:</b>	Heater Treater				
<b>Fluid Released:</b>	6.62 bbl				
<b>Fluids Recovered:</b>	0 bbl				
<b>Official Communication:</b>					
<b>Name:</b>	Jenni Fortunato		Greg W. Pope		
<b>Company:</b>	Conoco Phillips - RMR		Tetra Tech		
<b>Address:</b>	935 N. Eldridge Pkwy.		901 West Wall Street		
	SP2-12-W084		Suite 100		
<b>City:</b>	Houston, Texas 77079		Midland, Texas		
<b>Phone number:</b>	(832) 486-2477		(432) 687-8134		
<b>Fax:</b>					
<b>Email:</b>	jenni.fortunato@conocophillips.com		Greg.Pope@tetrattech.com		
<b>Ranking Criteria</b>					
<b>Depth to Groundwater:</b>		<b>Ranking Score</b>	<b>Site Data</b>		
<50 ft		20			
50-99 ft		10			
>100 ft.		0			
<b>WellHead Protection:</b>		<b>Ranking Score</b>	<b>Site Data</b>		
Water Source <1,000 ft., Private <200 ft.		20			
Water Source >1,000 ft., Private >200 ft.		0			
<b>Surface Body of Water:</b>		<b>Ranking Score</b>	<b>Site Data</b>		
<200 ft.		20			
200 ft - 1,000 ft.		10			
>1,000 ft.		0			
<b>Total Ranking Score:</b>		10			
<b>Site Characterization</b>					
<b>Depth to Groundwater:</b>	92' below surface				
<b>Karst Potential:</b>	Low				
<b>Recommended Remedial Action Levels (RRALs)</b>					
<b>Benzene</b>	<b>Total BTEX</b>	<b>TPH (GRO+DRO)</b>	<b>TPH (GRO+DRO+MRO)</b>	<b>Chlorides</b>	
10 mg/kg	50 mg/kg	1,000 mg/kg	2,500 mg/kg	10,000 mg/kg	



November 15, 2019

Rick Rickman  
District Supervisor  
Oil Conservation Division, District 1  
1625 North French Drive  
Hobbs, New Mexico 88240

**Re: Release Characterization and Remediation Work Plan  
ConocoPhillips  
Baish "A" Battery Release  
Unit Letter H, Section 21, Township 17 South, Range 32 East  
Lea County, New Mexico  
1RP-5641**

Dear Mr. Rickman:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a release that occurred at the Baish "A" Battery, Unit H, Section 21, Township 17 South, Range 32 East, Lea County, New Mexico (Site). The release site coordinates are 32.822983, -103.764178. The Site location is shown on Figures 1 and 2.

## BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) Initial Site Assessment/Characterization Report (Form C-141), the release occurred on June 6, 2019. The release occurred due to a malfunctioning dump valve on the heater treater and resulted in the discharge of 3 barrels (bbls) of crude oil and 3.62 bbls of produced water to the ground surface. Due to the small volume released, no fluids were recovered. The C-141 Form is shown in Appendix A.

## SITE CHARACTERIZATION

A site characterization was performed and per 19.15.29.12 NMAC, no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances and the Site is in a low karst potential area. The Site is within a New Mexico oil and gas production area. The New Mexico Office of the State Engineer (NMOSE) well database indicates that two water wells are located in Section 21, Township 17 South, Range 32 East in with average groundwater depths documented at 92 feet below ground surface. The groundwater database report for these two wells is included in Appendix B.

## REGULATORY FRAMEWORK

A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil.

**Tetra Tech**

901 West Wall St., Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 [www.tetrattech.com](http://www.tetrattech.com)

Based upon the Site characterization, the proposed RRALs for soil are:

- Benzene: 10 milligrams per kilogram (mg/kg);
- Total BTEX (sum of benzene, toluene, ethylbenzene, and xylene): 50 mg/kg;
- TPH (GRO + DRO + ORO): 2,500 mg/kg;
- TPH (GRO + DRO): 1,000 mg/kg;
- Chloride: 10,000 mg/kg (600 mg/kg in the top four feet)

## INITIAL SITE ASSESSMENT

ConocoPhillips personnel were initially onsite to delineate and sample the release area in July 2019. Seven (7) borings (SP-1 through SP-7) were installed using a hand auger to depths ranging from 4 to 8 feet below ground surface to evaluate the vertical extents of the release. A total of 25 soil samples were collected from these 7 boring locations on July 1, 2019 (Figure 3). Selected samples were submitted to an analytical laboratory for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylenes (BTEX) and chloride (SM4500Cl-B) analyses. Copies of the analytical laboratory reports and chain-of-custody documentation are included in Appendix C.

## ADDITIONAL SITE ASSESSMENT

To completely assess the release area, Tetra Tech personnel were onsite to further delineate and sample the release area in September 2019. Ten (10) borings (BH-1 – BH-10) were installed using an air rotary drilling rig to various depths to evaluate the vertical and horizontal extents of the release. A total of two (2) additional borings were completed to a depth of 6 inches (BH-11 and BH-12) within the lined area of the tank battery using a hand auger. Selected samples were submitted to an analytical laboratory for TPH, BTEX, and chloride (Method 300.0) analyses. Copies of the analytical laboratory reports and chain-of-custody documentation are included in Appendix C. The boring logs are shown in Appendix D.

## SUMMARY OF SAMPLING RESULTS

The results of the initial sampling event in July 2019 are summarized in Table 1. The boring locations are shown on Figure 3. The analytical results associated with the samples within the release area were predominantly above the RRALs for BTEX and TPH at the surface. Five of the boring locations (SP-1, SP-2, SP-4, SP-6, and SP-7) had surface samples that exceeded the RRAL for BTEX. In addition, the sample from the 2-foot interval at boring location SP-1 exceeded the RRAL for BTEX. At boring location SP-5, the surface sample results exceed the RRAL for TPH. At boring locations SP-1, SP-2, and SP-7, there were exceedances of the RRAL for TPH from the surface down to the 3-foot interval. At boring locations SP-3, SP-4, and SP-6, there were exceedances of the RRAL for TPH from the surface down to the 4-foot interval. There was one RRAL exceedance for chloride at boring location SP-3 (SURFACE).

The results of the additional sampling event in September 2019 are summarized in Table 2. The sample locations are shown in Figure 3. The analytical results associated with boring locations BH-1, BH-2, BH-4, BH-5 and BH-8 had exceedances of the RRAL for TPH from the surface to the 3-foot depth interval. There were no exceedances of chloride or BTEX during the September 2019 sampling event.

## REMEDIATION WORK PLAN

Based on the soil sample results, ConocoPhillips proposes to remove the impacted material exceeding RRALs shown in Tables 1 and 2 and as depicted in Figure 4. Excavation in the area will be performed using heavy equipment (backhoes and track hoes) to a maximum depth of 5 feet below ground surface within the release area. A 6-inch scrape will be conducted within the secondary containment area in the vicinity of BH-11 and BH-12. Impacted soils within the area containing boring location SP-5 are proposed to be excavated to a depth of 2 feet. The impacted soil areas containing boring locations BH-1, BH-2, BH-4, BH-5, BH-8, SP-1, SP-2 and SP-7 are proposed to be excavated to a depth of 4 feet. The area containing

boring locations SP-3, SP-4 and SP-6 are proposed to be excavated to depth of 5 feet. The estimated volume of material to be remediated is 2,300 cubic yards.

Horizontal delineation of the northern extent of the release was not obtained during the site assessment due to subsurface utilities. However, during the remediation activities, the excavation extent north of BH-1 and BH-5 will be expanded to the north until a discrete sidewall sample can be collected that is below the proposed RRALs.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX and chloride. Once the sample results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade.

## REVEGETATION PLAN

The backfilled areas south and east of the pad location will be seeded in Spring 2020 (first favorable growing season) to aid in revegetation. Based on the soil types present at the site, the New Mexico State Land Office (NMSLO) Shallow (SH) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix E.

## CONCLUSION

Upon completion of the remedial actions described above, a final report detailing the remediation activities will be submitted to the NMOCD. If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call me at (512) 338-2861 or (432) 682-4559.

Sincerely,  
**Tetra Tech, Inc.**



Christian M. Llull, P.G.  
Project Manager



Greg W. Pope, P.G.  
Program Manager

cc:  
Ms. Jenni Fortunato, RMR – ConocoPhillips  
Mr. Gustavo Fejervary-Morena, GPBU - ConocoPhillips  
Mr. Jim Amos, BLM



**List of Attachments**

Figures:

- Figure 1 – Site Location/Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Site Assessment and Release Extents
- Figure 4 – Proposed Remediation Areas

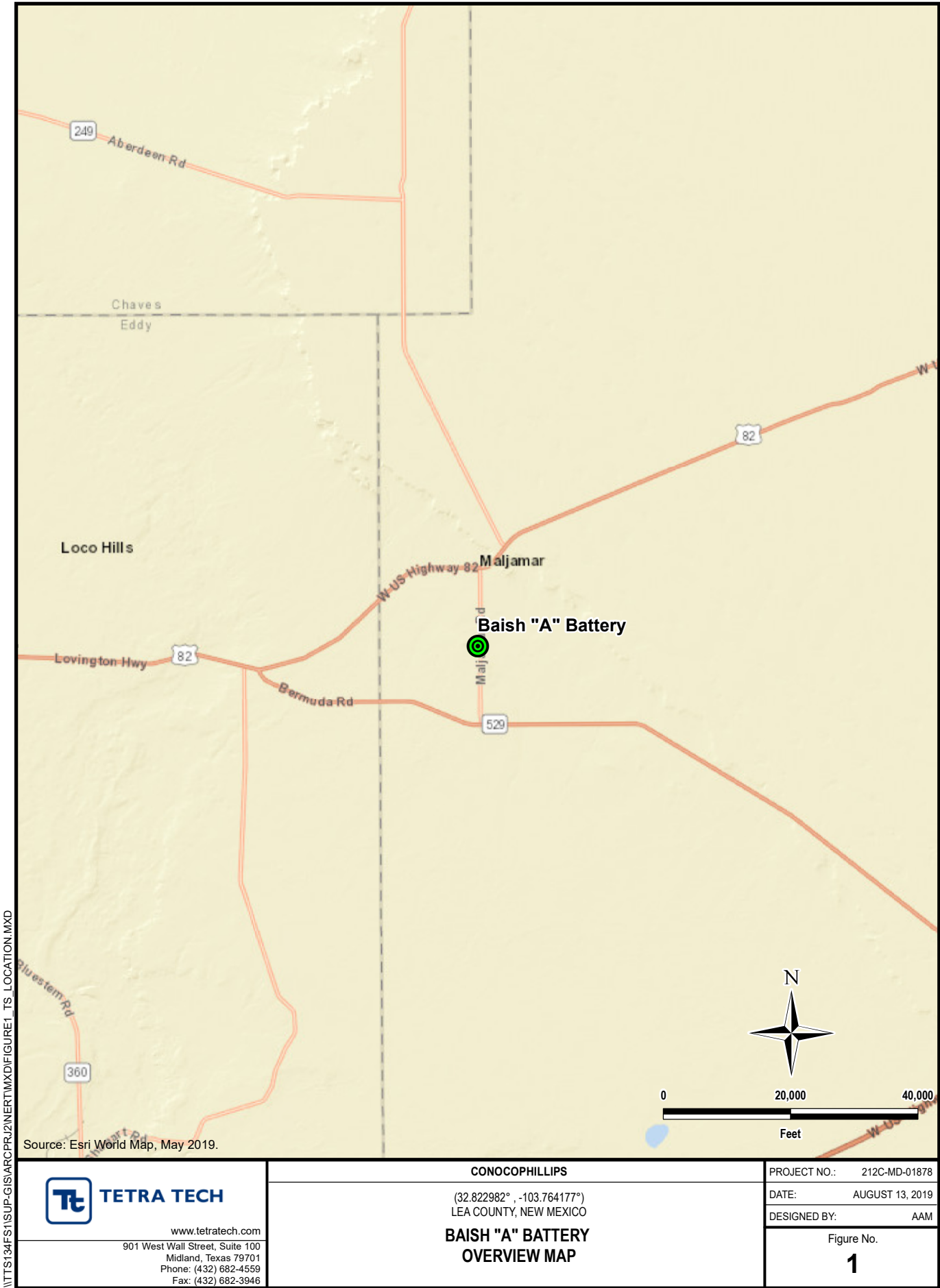
Tables:

- Table 1 – Summary of Analytical Results – Initial Soil Assessment
- Table 2 – Summary of Analytical Results – Additional Soil Assessment

Appendices:

- Appendix A – C-141 Form
- Appendix B – NMOSE Groundwater Data/Karst Potential Map
- Appendix C – Laboratory Analytical Data
- Appendix D – Soil Boring Logs
- Appendix E – NMSLO Seed Mixture Details

## FIGURES



\\TTS134FS1\SUP-GIS\ARCPJ2\NERT\MXD\FIGURE1 ITS\_LOCATION.MXD



**TETRA TECH**

www.tetrattech.com  
901 West Wall Street, Suite 100  
Midland, Texas 79701  
Phone: (432) 682-4559  
Fax: (432) 682-3946

CONOCOPHILLIPS

(32.822982° , -103.764177°)  
LEA COUNTY, NEW MEXICO

**BAISH "A" BATTERY  
OVERVIEW MAP**

PROJECT NO.: 212C-MD-01878

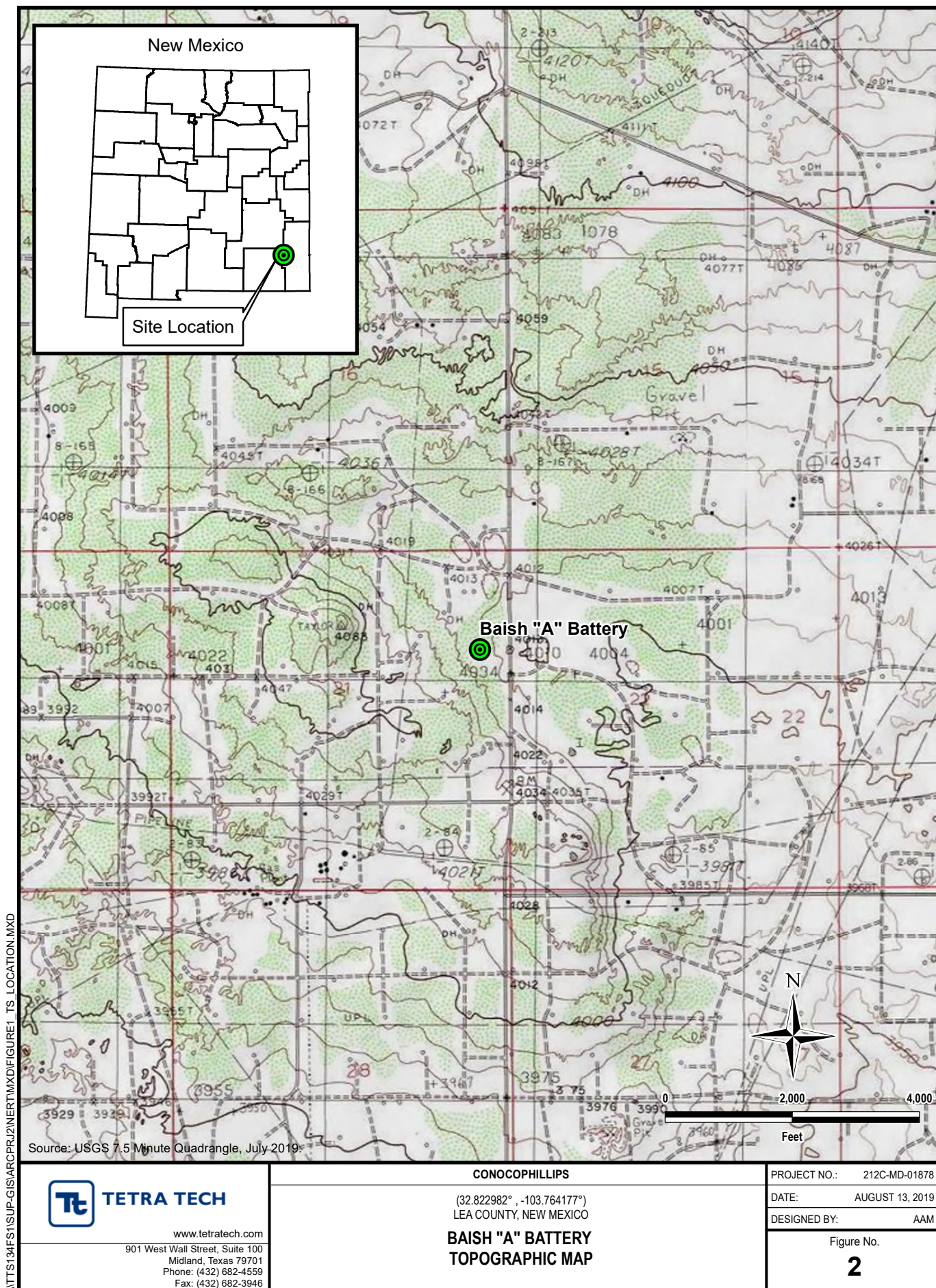
DATE: AUGUST 13, 2019

DESIGNED BY: AAM

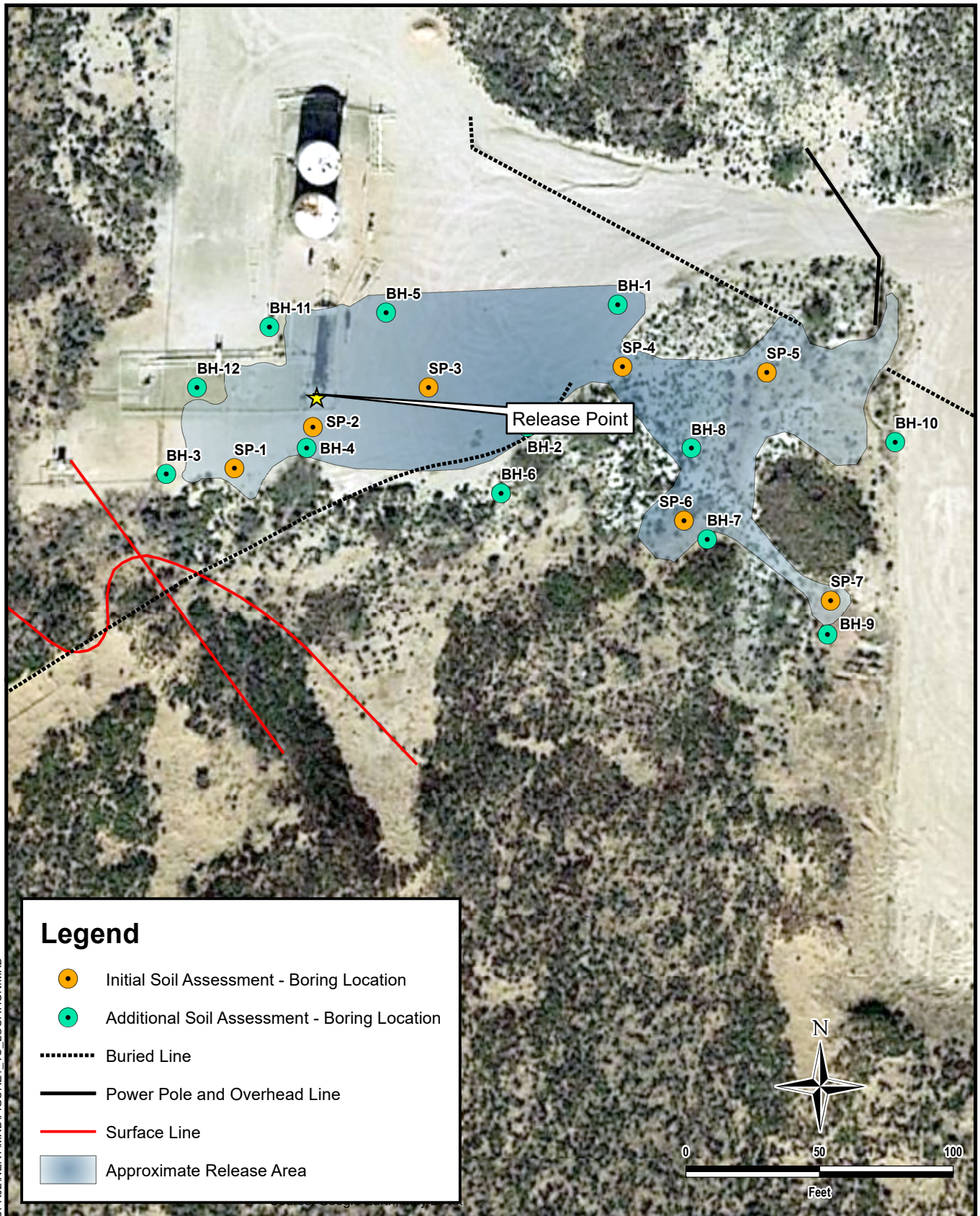
Figure No.

**1**









**TETRA TECH**

www.tetratech.com

901 West Wall Street, Suite 100  
Midland, Texas 79701  
Phone: (432) 682-4559  
Fax: (432) 682-3946

CONOCOPHILLIPS

(32.822982°, -103.764177°)  
LEA COUNTY, NEW MEXICO

**BAISH "A" BATTERY  
SITE ASSESSMENT AND RELEASE EXTENTS**

PROJECT NO.: 212C-MD-01878

DATE: NOVEMBER 11, 2019

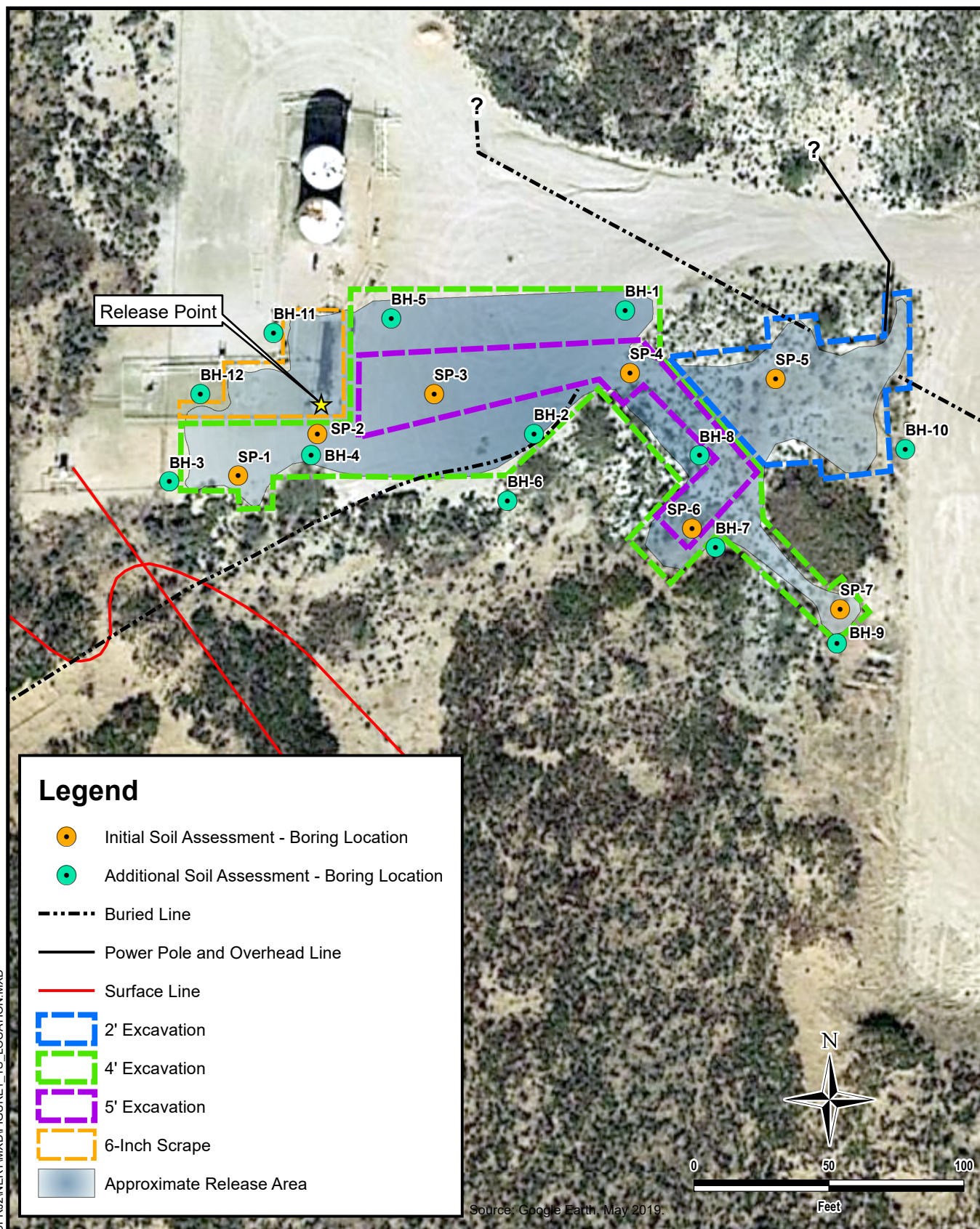
DESIGNED BY: AAM

Figure No.

**3**

\\TTS134FS1\SUP-GIS\ARCP\PJ2\NERT\MXD\FIGURE1\_TS\_LOCATION.MXD





**TETRA TECH**

www.tetrattech.com

901 West Wall Street, Suite 100  
Midland, Texas 79701  
Phone: (432) 682-4559  
Fax: (432) 682-3946

**CONOCOPHILLIPS**

(32.822982° , -103.764177°)  
LEA COUNTY, NEW MEXICO

**BAISH "A" BATTERY  
PROPOSED REMEDIATION AREAS**

PROJECT NO.: 212C-MD-01878

DATE: NOVEMBER 11, 2019

DESIGNED BY: AAM

Figure No.

**4**

\\TTS134FS1\SUP-GIS\ARCP\PJ2\NERT\MXD\FIGURE1\_TS\_LOCATION.MXD

**TABLES**



TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
INITIAL SOIL ASSESSMENT  
BAISH "A" BATTERY RELEASE  
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Chloride <sup>1</sup>	BTEX <sup>2</sup>									TPH <sup>3</sup>							
				Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX	GRO		DRO		ORO		GRO + DRO	TPH (C <sub>6</sub> - C <sub>36</sub> )
				mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	C <sub>6</sub> - C <sub>10</sub>	Q	>C <sub>10</sub> - C <sub>28</sub>	Q	>C <sub>28</sub> - C <sub>36</sub>	Q	C6 - C28	
SP-1	07/01/19	0	<16.0	<2.00		6.2		15.2		77.1		<b>98.4</b>	2230		10400		1570		<b>12630</b>	<b>14200</b>
		2	<16.0	<2.00		3.71		11.3		46.7		<b>61.7</b>	1220		7050		1540		<b>8270</b>	<b>9810</b>
		4	<16.0	<0.050		<0.050		<0.050		0.209		<0.300	<50.0		376		270		376	646
SP-2	07/01/19	0	80	<1.00	QR-03	9.35		16.8	QM-07	60.9	QM-07	<b>87.1</b>	1480	QM-07	17300	QM-07	3200		<b>18780</b>	<b>21980</b>
		2	32	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		20.3		21.5		20.3	41.8
		4	32	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		--	--
SP-3	07/01/19	0	<b>1660</b>	<0.050		1.8		3.06		11.6		16.5	281		15600		4190		<b>15881</b>	<b>20071</b>
		2	336	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		1430		978		<b>1430</b>	2408
		4	96	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		1810		1000		<b>1810</b>	<b>2810</b>
		6	192	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		192		109		192	301
		8	144	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		95.7		51		95.7	146.7
SP-4	07/01/19	0	32	2.44		25.4		18		63.1		<b>109</b>	1690		17700		2900		<b>19390</b>	<b>22290</b>
		2	32	<0.050		0.064		0.166		0.634		0.864	20.7		142		51.6		162.7	214.3
		4	32	<0.200		4.53		4.39		14.3		23.3	373		2230		393		<b>2603</b>	<b>2996</b>
SP-5	07/01/19	0	32	0.3		4.61		3.5		12.1		20.5	682		32500		7580		<b>33182</b>	<b>40762</b>
		2	128	0.055		0.292		0.372		1.26		1.97	22.3		819		572		841.3	1413
		4	288	<0.050		0.104		0.138		0.461		0.703	<10.0		412		315		412	727
SP-6	07/01/19	0	<16.0	<0.500		9.45		11.5		43.9		<b>64.9</b>	1490		22000		4380		<b>23490</b>	<b>27870</b>
		2	16	<0.050		0.497		0.092		<0.150		0.726	11		416		309		427	736
		4	32	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		1430		1120		<b>1430</b>	<b>2550</b>
		6	16	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		12.1		14.4		12.1	26.5
SP-7	07/01/19	0	<16.0	0.515		11		14.4		48.6		<b>74.5</b>	1580		18600		3700		<b>20180</b>	<b>23880</b>
		2	16	<0.050		<0.050		0.059		0.225		<0.300	12.8		442		122		454.8	576.8
		4	64	<0.050		0.198		0.139		0.401		0.737	24.1		912		193		936.1	1129
		6	16	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		107		87.1		107	194.1

**NOTES:**

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

DRO Diesel Range Organics

GRO Gasoline Range Organics

ORO Oil Range Organics

**Bold and italicized values exceed the proposed RRAL for the Site.**

Shaded rows indicate depth intervals proposed for excavation and remediation.

1 Method SM4500CI-B

2 Method 8260B

3 Method 8015M

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference.

QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

TABLE 2  
SUMMARY OF ANALYTICAL RESULTS  
ADDITIONAL SOIL ASSESSMENT  
BAISH "A" BATTERY RELEASE  
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Field Screening Results		Chloride <sup>1</sup>	BTEx <sup>2</sup>								TPH <sup>3</sup>									
			Chloride	PID		Benzene		Toluene		Ethylbenzene		Xylene		Total BTEx	GRO		DRO		ORO		GRO + DRO	TPH (C <sub>6</sub> - C <sub>36</sub> )	
						mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		mg/kg	Q	C <sub>6</sub> - C <sub>10</sub>	Q	mg/kg	Q	mg/kg		Q
		ft. bgs	ppm		mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
BH-1	09/10/19	0-1	NM	18.1	458	<0.00106		<0.00531		<0.00266		<0.00690	J4	--	<0.106		1420		1760		<b>1420</b>		<b>3180</b>
		2-3	<b>694</b>	13.4	148	<0.00103		<0.00517		<0.00259		<0.00673	J4	--	<0.103		1080		1400		<b>1080</b>		2480
		4-5	307	10.3	408	<0.00103		<0.00513		<0.00257		<0.00667	J4	--	<0.103		317		663		317		980
		6-7	538	10.3	377	<0.00108		<0.00542		<0.00271		<0.00705	J4	--	<0.108		28		59.8		28		87.8
		9-10	423	6.6	935	<0.00114		<0.00568		<0.00284		<0.00738	J4	--	<0.114		25.4		44.4		25.4		69.8
BH-2	09/10/19	0-1	NM	112.6	281	<0.00103		<0.00517		<0.00258		<0.00672	J4	--	0.14	B	2880		1680		<b>2880</b>		<b>4560</b>
		2-3	NM	87.4	157	<0.00102		<0.00512		<0.00256		<0.00666	J4	--	0.0655	B J	1020		1180		<b>1020</b>		2200
		4-5	113	36.9	70.7	<0.00101		<0.00506		<0.00253		<0.00657	J4	--	<0.101		152		232		152		384
		6-7	116	17.4	108	<0.00103		<0.00513		<0.00256		<0.00667	J4	--	0.023	B J	43.2		60.8		43.22		104.02
		9-10	114	9.4	190	<0.00107		<0.00533		<0.00267		<0.00693	J4	--	<0.107		4.63		15.9		4.63		20.53
BH-3	09/10/19	0-1	NM	8.1	23.5	<0.00103		<0.00514		<0.00257		<0.00668	J4	--	0.0236	B J	251		455		251.02		706.02
		2-3	36.2	7.2	23.5	<0.00102		<0.00509		<0.00255		<0.00662	J4	--	<0.102		418		953		418		1371
		4-5	NM	7.0	23.9	<0.00103		<0.00517		<0.00259		<0.00672		--	<0.103		189		524		189		713
		6-7	NM	7.8	71.6	0.000532	J	<0.00524		<0.00262		<0.00681		0.000532	<0.105		36.1	J	103		36.1		139.1
		9-10	NM	7.0	260	0.000558	J	<0.00559		<0.00280		<0.00727		0.000558	<0.112	J3	42.5		104		42.5		146.5
BH-4	09/10/19	0-1	152	36.1	124	0.0012		<0.00536		<0.00268		<0.00696		0.0012	<0.107		1600		1370		<b>1600</b>		<b>2970</b>
		2-3	NM	39.4	208	0.00152		<0.00508		<0.00254		<0.00660		0.00152	<0.102		3380		2680		<b>3380</b>		<b>6060</b>
		4-5	NM	39.1	57.9	0.00139		<0.00512		<0.00256		<0.00666		0.00139	<0.102		200		161		200		361
		6-7	112	16.0	145	0.000795	J	<0.00532		<0.00266		<0.00692		0.000795	<0.106		8.7		10.4		8.7		19.1
		9-10	NM	10.0	201	0.000765	J	<0.00551		<0.00276		<0.00716		0.000765	<0.110		7.95		10.8		7.95		18.75
BH-5	09/11/19	0-1	NM	2.8	172	<0.00102		<0.00508		<0.00254		<0.00660		--	<0.103		27		77.3		27		104.3
		2-3	258	2.5	133	0.00115		<0.00508		<0.00254		<0.00660		0.00115	<0.102		1650		4890		<b>1650</b>		<b>6540</b>
		4-5	184	4.4	70.1	0.00066	J	<0.00508		<0.00254		<0.00660		0.00066	<0.102		246		748		246		994
		6-7	NM	4.2	86.9	0.00111	J	<0.00562		<0.00281		<0.00730		0.00111	<0.112		50.8		143		50.8		193.8
		9-10	98	>1100	57.7	0.00163		0.00351	J	0.486		0.21		0.70114	170		747		561		917		1478
		12-13	NM	100.8	72	<0.00114		<0.00569		0.00826		<0.00740		0.00826	0.598		39.6		51.7		40.20		91.90
		14-15	NM	54.5	95	<0.00114		<0.00569		0.00186	J	<0.00740		0.00186	0.34		33.8		40.5		34.14		74.64
		19-20	NM	6.2	160	<0.00112		<0.00560		<0.00280		<0.00729		--	<0.112		<4.48		1.55	J	--		1.55

TABLE 2  
SUMMARY OF ANALYTICAL RESULTS  
ADDITIONAL SOIL ASSESSMENT  
BAISH "A" BATTERY RELEASE  
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Field Screening Results		Chloride <sup>1</sup>	BTEX <sup>2</sup>								TPH <sup>3</sup>								
			Chloride	PID		Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX	GRO		DRO		ORO		GRO + DRO	TPH (C <sub>6</sub> - C <sub>36</sub> )
						C <sub>6</sub> - C <sub>10</sub>	>C <sub>10</sub> - C <sub>28</sub>	>C <sub>28</sub> - C <sub>36</sub>	C <sub>6</sub> - C <sub>28</sub>	mg/kg	Q	mg/kg	Q		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
		ft. bgs	ppm		mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg
BH-6	09/11/19	0-1	91.3	17.2	40.9	0.000499	J	<0.00570		<0.00285		<0.00740		0.000499	0.0405	B J	30.4		81.3		30.44	111.74
		2-3	87.1	16.6	42.3	0.000518	J	<0.00533		<0.00266		<0.00692		0.000518	0.0452	B J	63.1		148		63.15	211.15
		4-5	NM	6.6	20.4	<0.00101		<0.00506		<0.00253		<0.00658		--	<0.101		1.87	B J J3	2.44	J	1.87	4.31
		6-7	82.2	4.6	94.9	0.000435	J	<0.00517		<0.00258		<0.00672		0.000435	<0.103		1.78	B J	3.04	J	1.78	4.82
BH-7	09/11/19	0-1	41.8	6.8	3.75	<0.00104		<0.00521		<0.00261		<0.00678		--	<0.104		7.55	B	46.3		7.55	53.85
		2-3	36.4	4.7	15.4	<0.00101		<0.00505		<0.00253		<0.00657		--	<0.101		5.75	B	30.5		5.75	36.25
		4-5	NM	6.3	3.1	<0.00101		<0.00504		<0.00252		<0.00655		--	0.0463	B J	16.3	B J	95.5		16.35	111.85
BH-8	09/11/19	0-1	NM	252.8	51.4	<0.00103		<0.00514		0.0138		0.155		0.1688	1.3		3830		2350		<b>3831</b>	<b>6181</b>
		2-3	NM	237.5	63.7	<0.00106		<0.00529		0.0106		0.121		0.1316	1.51		5520		3670		<b>5522</b>	<b>9192</b>
		4-5	671	36.8	57.6	<0.00103		<0.00515		0.00093	J	0.0217		0.02263	0.142	B	336		1010		336.14	1346
		6-7	180	4.1	74.9	<0.00105		<0.00523		<0.00261		<0.00680		--	0.0564	B J	408		1030		408.06	1438
BH-9	09/11/19	9-10	128	3.4	214	<0.00105		<0.00526		<0.00263		<0.00684		--	0.0498	B J	10.6		9.11		10.65	19.76
		0-1	NM	5.4	22.4	<0.00100		<0.00502		<0.00251		<0.00653		--	0.0507	B J	155		452		155.05	607.05
BH-10	09/11/19	2-3	NM	4.9	4.32	<0.00102		<0.00510		<0.00255		<0.00662		--	0.0508	B J	326		795		326.05	1121
		0-1	134	8.6	4	<0.00114		<0.00569		<0.00284		<0.00739		--	<0.114		24.7		32		24.7	56.7
		2-3	112	9.8	3.97	<0.00123		<0.00615		<0.00307		<0.00799		--	<0.123		<4.92		3.36	J	--	3.36
BH-11	09/11/19	4-5	NM	3.4	2.76	<0.00104		<0.00518		<0.00259		<0.00673		--	<0.105		115		194		115	309
BH-12	09/11/19	0-0.5	NM	0.1	30.7	<0.00101		<0.00506		<0.00253		<0.00658		--	<0.102		29.8		72.4		29.8	102.2
BH-12	09/11/19	0-0.5	NM	3.2	2.64	<0.00101		<0.00504		<0.00252		<0.00655		--	<0.102		21.1		69.9		21.1	91

## NOTES:

ft. Feet  
bgs Below ground surface  
mg/kg Milligrams per kilogram  
ppm Parts per million  
NM Not measured  
TPH Total Petroleum Hydrocarbons  
DRO Diesel Range Organics  
GRO Gasoline Range Organics  
ORO Oil Range Organics

**Bold and italicized values exceed the proposed RRAL for the Site.**

Shaded rows indicate depth intervals proposed for excavation and remediation.

- 1 Method 300.0
- 2 Method 8260B
- 3 Method 8015M
- B 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.
- J4 The associated batch QC was outside the established quality control range for accuracy.

## **APPENDIX A**

### **C-141 Form**

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	NJEG1922759656
District RP	1RP-5641
Facility ID	fJEG1922759200
Application ID	pJEG1922758212

## Release Notification

### Responsible Party

Responsible Party ConocoPhillips Company	OGRID 217817
Contact Name Gustavo Fejevary	Contact Telephone 432/210-7037
Contact email g.fejevary@cop.com	Incident # (assigned by OCD)
Contact mailing address 3300 N A ST. Midland Texas 79705	

### Location of Release Source

Latitude 32.822975 Longitude -103.764358  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name BAISH A	Site Type TANK BATTERY
Date Release Discovered 6/19/19	API# (if applicable)

Unit Letter	Section	Township	Range	County
H	21	17S	32E	Lea

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)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 3	Volume Recovered (bbls) 0
<input type="checkbox"/> Produced Water	Volume Released (bbls) 3.62	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Dump valve had malfunctioned on the heater treater.

Form C-141

Page 2

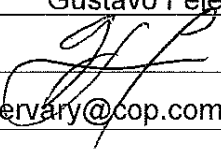
State of New Mexico  
Oil Conservation Division

Incident ID	nJEG1922759656
District RP	1RP-5641
Facility ID	fJEG1922759200
Application ID	pJEG1922758212

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  	

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: Due to the small volume we were not able to recover any fluid. However, the site will be remediated according to the NMOCD Requirements.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Gustavo Fejevary</u>	Title: <u>Environmental Coordinator</u>
Signature: 	Date: <u>7/3/19</u>
email: <u>g.fejevary@cop.com</u>	Telephone: <u>432/210-7037</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jim Griswold</u>	Date: <u>7/22/19</u>

Form C-141

State of New Mexico

Page 3

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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **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 wells.
- ☐ 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

State of New Mexico

Page 4

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 best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature:  \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Form C-141

State of New Mexico

Page 5

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature:  \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## **APPENDIX B**

### **NMOSE Groundwater Data**



# 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)

closed) (quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">RA 12521 POD1</a>	RA	LE		3	3	4	21	17S	32E	615127	3631271	105	92	13
<a href="#">RA 12522 POD1</a>	RA	LE		3	3	4	21	17S	32E	614941	3631122	100		

Average Depth to Water: **92 feet**

Minimum Depth: **92 feet**

Maximum Depth: **92 feet**

Record Count: 2

### Basin/County Search:

County: Lea

### PLSS Search:

Section(s): 21

Township: 17S





Range: 32E

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.


**1RP-5641**

ConocoPhillips  
Baish "A" Battery  
Cave Karst Potential Map

**Legend**

-  Baish "A" Battery 32.822975, -103.764358
-  High
-  Low
-  Medium

Hwy 82 Maljamar

 Baish "A" Battery 32.822975, -103.764358

muda Rd

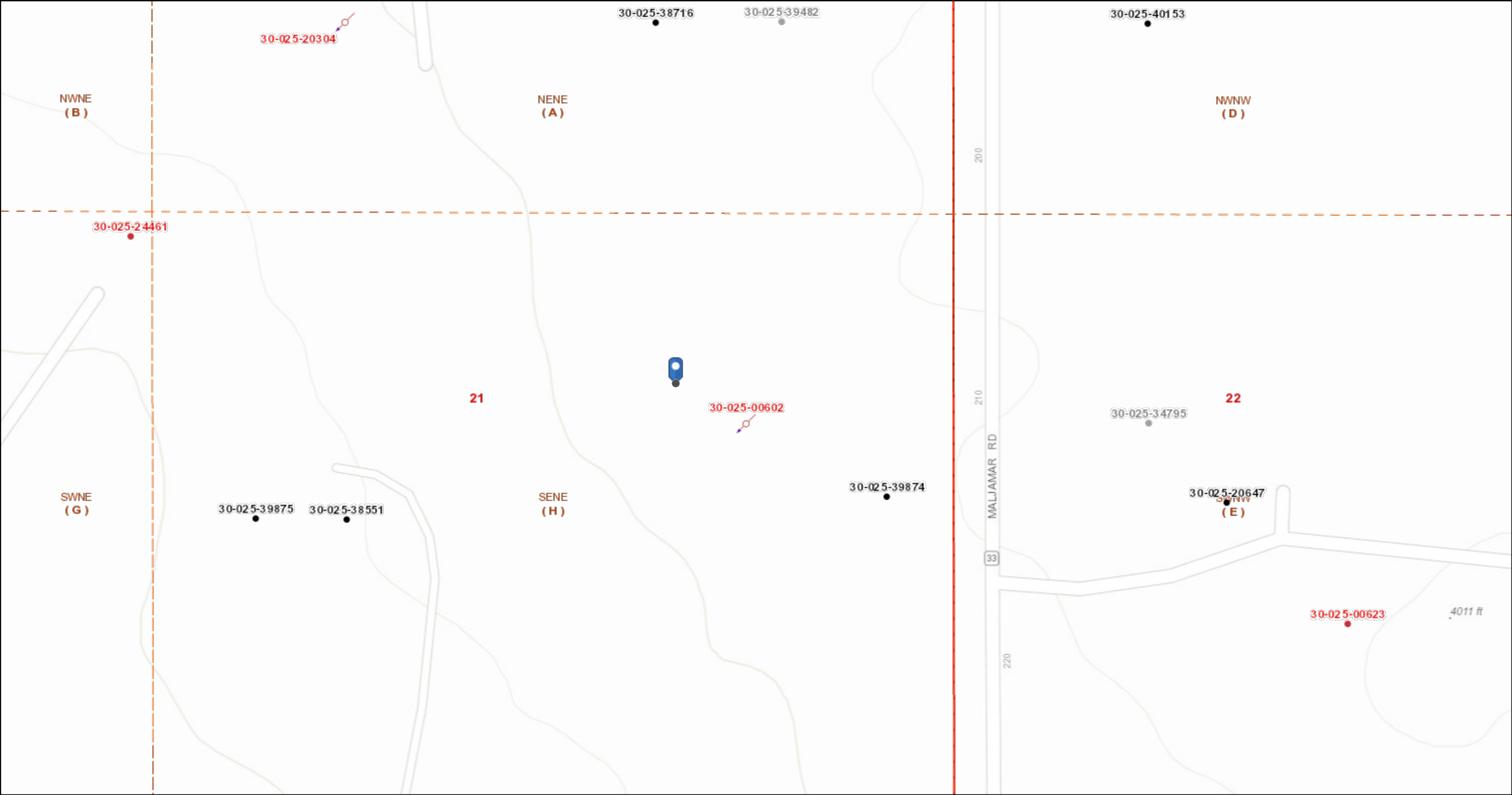
(529)

Google Earth



2 mi

# Baish "A" Battery



10/31/2019, 2:41:33 PM

Well Locations - Small Scale

- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned

Well Locations - Large Scale

- Miscellaneous
- CO2 Active
- CO2 Cancelled
- CO2 New
- CO2, Plugged
- CO2, Temporarily Abandoned

Gas Active

- Gas, Cancelled, Never Drilled
- Gas, New
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active

Injection, Cancelled

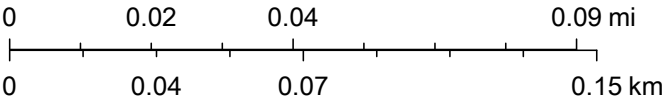
- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled

Oil, New

- Oil, Plugged
- Oil, Temporarily Abandoned
- Salt Water Injection, Active
- Salt Water Injection, Cancelled
- Salt Water Injection, New

Salt Water Injection, Plugged

- Salt Water InjectionTemporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New
- Water, Plugged



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, OCD,

## **APPENDIX C**

### **Laboratory Analytical Data**





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 09, 2019

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: BAISH A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/02/19 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 1 - SURFACE (H902258-01)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	07/03/2019	ND	1.91	95.7	2.00	0.375	
Toluene*	6.20	2.00	07/03/2019	ND	2.03	101	2.00	3.41	
Ethylbenzene*	15.2	2.00	07/03/2019	ND	1.94	96.9	2.00	2.42	
Total Xylenes*	77.1	6.00	07/03/2019	ND	5.82	97.0	6.00	1.52	
Total BTEX	98.4	12.0	07/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/03/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2230	50.0	07/03/2019	ND	193	96.5	200	1.97	
DRO >C10-C28*	10400	50.0	07/03/2019	ND	190	95.2	200	5.09	
EXT DRO >C28-C36	1570	50.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 256 % 41-142

Surrogate: 1-Chlorooctadecane 394 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 1 - 2' (H902258-02)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	07/03/2019	ND	1.91	95.7	2.00	0.375	
Toluene*	3.71	2.00	07/03/2019	ND	2.03	101	2.00	3.41	
Ethylbenzene*	11.3	2.00	07/03/2019	ND	1.94	96.9	2.00	2.42	
Total Xylenes*	46.7	6.00	07/03/2019	ND	5.82	97.0	6.00	1.52	
Total BTEX	61.7	12.0	07/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/03/2019	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1220	50.0	07/03/2019	ND	193	96.5	200	1.97	
DRO >C10-C28*	7050	50.0	07/03/2019	ND	190	95.2	200	5.09	
EXT DRO >C28-C36	1540	50.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 199 % 41-142

Surrogate: 1-Chlorooctadecane 306 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 1 - 4' (H902258-03)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/03/2019	ND	1.91	95.7	2.00	0.375	
Toluene*	<0.050	0.050	07/03/2019	ND	2.03	101	2.00	3.41	
Ethylbenzene*	<0.050	0.050	07/03/2019	ND	1.94	96.9	2.00	2.42	
<b>Total Xylenes*</b>	<b>0.209</b>	0.150	07/03/2019	ND	5.82	97.0	6.00	1.52	
Total BTEX	<0.300	0.300	07/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/03/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	07/03/2019	ND	193	96.5	200	1.97	
<b>DRO &gt;C10-C28*</b>	<b>376</b>	50.0	07/03/2019	ND	190	95.2	200	5.09	
<b>EXT DRO &gt;C28-C36</b>	<b>270</b>	50.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 2 - SURFACE (H902258-04)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	07/04/2019	ND	1.63	81.6	2.00	2.28	QR-03
<b>Toluene*</b>	<b>9.35</b>	1.00	07/04/2019	ND	1.75	87.3	2.00	0.398	
<b>Ethylbenzene*</b>	<b>16.8</b>	1.00	07/04/2019	ND	1.68	84.2	2.00	3.08	QM-07
<b>Total Xylenes*</b>	<b>60.9</b>	3.00	07/04/2019	ND	5.11	85.1	6.00	2.75	QM-07
<b>Total BTEX</b>	<b>87.1</b>	6.00	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	07/03/2019	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

<b>GRO C6-C10*</b>	<b>1480</b>	50.0	07/03/2019	ND	190	94.8	200	0.817	QM-07
<b>DRO &gt;C10-C28*</b>	<b>17300</b>	50.0	07/03/2019	ND	183	91.6	200	0.350	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>3200</b>	50.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 396 % 41-142

Surrogate: 1-Chlorooctadecane 543 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 2 - 2' (H902258-05)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28	
Toluene*	<0.050	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398	
Ethylbenzene*	<0.050	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75	
Total BTEX	<0.300	0.300	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/03/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2019	ND	190	94.8	200	0.817	
DRO >C10-C28*	20.3	10.0	07/03/2019	ND	183	91.6	200	0.350	
EXT DRO >C28-C36	21.5	10.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 68.3 % 41-142

Surrogate: 1-Chlorooctadecane 70.8 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 2 - 4' (H902258-06)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28		
Toluene*	<0.050	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398		
Ethylbenzene*	<0.050	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08		
Total Xylenes*	<0.150	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75		
Total BTEX	<0.300	0.300	07/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/03/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2019	ND	190	94.8	200	0.817	
DRO >C10-C28*	<10.0	10.0	07/03/2019	ND	183	91.6	200	0.350	
EXT DRO >C28-C36	<10.0	10.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 67.3 % 41-142

Surrogate: 1-Chlorooctadecane 70.1 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 3 - SURFACE (H902258-07)**

BTEX 8021B		mg/kg	Analyzed By: ms					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28	
<b>Toluene*</b>	<b>1.80</b>	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398	
<b>Ethylbenzene*</b>	<b>3.06</b>	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08	
<b>Total Xylenes*</b>	<b>11.6</b>	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75	
<b>Total BTEX</b>	<b>16.5</b>	0.300	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1660</b>	16.0	07/03/2019	ND	416	104	400	0.00	
TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>281</b>	50.0	07/03/2019	ND	190	94.8	200	0.817	
<b>DRO &gt;C10-C28*</b>	<b>15600</b>	50.0	07/03/2019	ND	183	91.6	200	0.350	
<b>EXT DRO &gt;C28-C36</b>	<b>4190</b>	50.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 145 % 41-142

Surrogate: 1-Chlorooctadecane 577 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 3 - 2' (H902258-08)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28	
Toluene*	<0.050	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398	
Ethylbenzene*	<0.050	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75	
Total BTEX	<0.300	0.300	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/03/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2019	ND	190	94.8	200	0.817	
DRO >C10-C28*	1430	10.0	07/05/2019	ND	183	91.6	200	0.350	
EXT DRO >C28-C36	978	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 65.3 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 3 - 4' (H902258-09)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28		
Toluene*	<0.050	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398		
Ethylbenzene*	<0.050	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08		
Total Xylenes*	<0.150	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75		
Total BTEX	<0.300	0.300	07/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/03/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2019	ND	190	94.8	200	0.817	
DRO >C10-C28*	1810	10.0	07/05/2019	ND	183	91.6	200	0.350	
EXT DRO >C28-C36	1000	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 72.2 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 3 - 6' (H902258-10)**

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28	
Toluene*	<0.050	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398	
Ethylbenzene*	<0.050	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75	
Total BTEX	<0.300	0.300	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	07/03/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2019	ND	190	94.8	200	0.817	
<b>DRO &gt;C10-C28*</b>	<b>192</b>	10.0	07/03/2019	ND	183	91.6	200	0.350	
<b>EXT DRO &gt;C28-C36</b>	<b>109</b>	10.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 67.1 % 41-142

Surrogate: 1-Chlorooctadecane 83.7 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 3 - 8' (H902258-11)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28	
Toluene*	<0.050	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398	
Ethylbenzene*	<0.050	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75	
Total BTEX	<0.300	0.300	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/03/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2019	ND	190	94.8	200	0.817	
DRO >C10-C28*	95.7	10.0	07/03/2019	ND	183	91.6	200	0.350	
EXT DRO >C28-C36	51.0	10.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 72.3 % 41-142

Surrogate: 1-Chlorooctadecane 77.0 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 4 - SURFACE (H902258-12)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	2.44	1.00	07/04/2019	ND	1.63	81.6	2.00	2.28		
Toluene*	25.4	1.00	07/04/2019	ND	1.75	87.3	2.00	0.398		
Ethylbenzene*	18.0	1.00	07/04/2019	ND	1.68	84.2	2.00	3.08		
Total Xylenes*	63.1	3.00	07/04/2019	ND	5.11	85.1	6.00	2.75		
Total BTEX	109	6.00	07/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/03/2019	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
									S-06

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1690	50.0	07/03/2019	ND	190	94.8	200	0.817		
DRO >C10-C28*	17700	50.0	07/03/2019	ND	183	91.6	200	0.350		
EXT DRO >C28-C36	2900	50.0	07/03/2019	ND						

Surrogate: 1-Chlorooctane 392 % 41-142

Surrogate: 1-Chlorooctadecane 562 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 4 - 2' (H902258-13)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28	
<b>Toluene*</b>	<b>0.064</b>	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398	
<b>Ethylbenzene*</b>	<b>0.166</b>	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08	
<b>Total Xylenes*</b>	<b>0.634</b>	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75	
<b>Total BTEX</b>	<b>0.864</b>	0.300	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	07/03/2019	ND	416	104	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>20.7</b>	10.0	07/03/2019	ND	190	94.8	200	0.817	
<b>DRO &gt;C10-C28*</b>	<b>142</b>	10.0	07/03/2019	ND	183	91.6	200	0.350	
<b>EXT DRO &gt;C28-C36</b>	<b>51.6</b>	10.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 77.0 % 41-142

Surrogate: 1-Chlorooctadecane 81.7 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 4 - 4' (H902258-14)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/04/2019	ND	1.63	81.6	2.00	2.28	
<b>Toluene*</b>	<b>4.53</b>	0.200	07/04/2019	ND	1.75	87.3	2.00	0.398	
<b>Ethylbenzene*</b>	<b>4.39</b>	0.200	07/04/2019	ND	1.68	84.2	2.00	3.08	
<b>Total Xylenes*</b>	<b>14.3</b>	0.600	07/04/2019	ND	5.11	85.1	6.00	2.75	
<b>Total BTEX</b>	<b>23.3</b>	1.20	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	07/03/2019	ND	416	104	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>373</b>	10.0	07/09/2019	ND	190	94.8	200	0.817	
<b>DRO &gt;C10-C28*</b>	<b>2230</b>	10.0	07/09/2019	ND	183	91.6	200	0.350	
<b>EXT DRO &gt;C28-C36</b>	<b>393</b>	10.0	07/09/2019	ND					

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>373</b>	10.0	07/09/2019	ND	190	94.8	200	0.817	
<b>DRO &gt;C10-C28*</b>	<b>2230</b>	10.0	07/09/2019	ND	183	91.6	200	0.350	
<b>EXT DRO &gt;C28-C36</b>	<b>393</b>	10.0	07/09/2019	ND					

Surrogate: 1-Chlorooctane 156 % 41-142

Surrogate: 1-Chlorooctadecane 169 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 5 - SURFACE (H902258-15)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.300</b>	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28	
<b>Toluene*</b>	<b>4.61</b>	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398	
<b>Ethylbenzene*</b>	<b>3.50</b>	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08	
<b>Total Xylenes*</b>	<b>12.1</b>	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75	
<b>Total BTEX</b>	<b>20.5</b>	0.300	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	07/03/2019	ND	416	104	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>682</b>	50.0	07/03/2019	ND	190	94.8	200	0.817	
<b>DRO &gt;C10-C28*</b>	<b>32500</b>	50.0	07/03/2019	ND	183	91.6	200	0.350	
<b>EXT DRO &gt;C28-C36</b>	<b>7580</b>	50.0	07/03/2019	ND					

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>682</b>	50.0	07/03/2019	ND	190	94.8	200	0.817	
<b>DRO &gt;C10-C28*</b>	<b>32500</b>	50.0	07/03/2019	ND	183	91.6	200	0.350	
<b>EXT DRO &gt;C28-C36</b>	<b>7580</b>	50.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 205 % 41-142

Surrogate: 1-Chlorooctadecane 1300 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 5 - 2' (H902258-16)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.055</b>	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28	
<b>Toluene*</b>	<b>0.292</b>	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398	
<b>Ethylbenzene*</b>	<b>0.372</b>	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08	
<b>Total Xylenes*</b>	<b>1.26</b>	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75	
<b>Total BTEX</b>	<b>1.97</b>	0.300	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	07/03/2019	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>22.3</b>	10.0	07/05/2019	ND	190	94.8	200	0.817	
<b>DRO &gt;C10-C28*</b>	<b>819</b>	10.0	07/05/2019	ND	183	91.6	200	0.350	
<b>EXT DRO &gt;C28-C36</b>	<b>572</b>	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 55.4 % 41-142

Surrogate: 1-Chlorooctadecane 75.5 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	07/02/2019	Sampling Date:	07/01/2019
Reported:	07/09/2019	Sampling Type:	Soil
Project Name:	BAISH A BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA CO NM		

**Sample ID: SP # 5 - 4' (H902258-17)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28	
<b>Toluene*</b>	<b>0.104</b>	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398	
<b>Ethylbenzene*</b>	<b>0.138</b>	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08	
<b>Total Xylenes*</b>	<b>0.461</b>	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75	
<b>Total BTEX</b>	<b>0.703</b>	0.300	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>288</b>	16.0	07/03/2019	ND	416	104	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2019	ND	190	94.8	200	0.817	
<b>DRO &gt;C10-C28*</b>	<b>412</b>	10.0	07/05/2019	ND	183	91.6	200	0.350	
<b>EXT DRO &gt;C28-C36</b>	<b>315</b>	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 71.7 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 6 - SURFACE (H902258-18)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	07/04/2019	ND	1.63	81.6	2.00	2.28		
Toluene*	9.45	0.500	07/04/2019	ND	1.75	87.3	2.00	0.398		
Ethylbenzene*	11.5	0.500	07/04/2019	ND	1.68	84.2	2.00	3.08		
Total Xylenes*	43.9	1.50	07/04/2019	ND	5.11	85.1	6.00	2.75		
Total BTEX	64.9	3.00	07/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/03/2019	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1490	50.0	07/03/2019	ND	190	94.8	200	0.817	
DRO >C10-C28*	22000	50.0	07/03/2019	ND	183	91.6	200	0.350	
EXT DRO >C28-C36	4380	50.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 443 % 41-142

Surrogate: 1-Chlorooctadecane 683 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 6 - 2' (H902258-19)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28	
<b>Toluene*</b>	<b>0.497</b>	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398	
<b>Ethylbenzene*</b>	<b>0.092</b>	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75	
<b>Total BTEX</b>	<b>0.726</b>	0.300	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	07/03/2019	ND	416	104	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>11.0</b>	10.0	07/05/2019	ND	190	94.8	200	0.817	
<b>DRO &gt;C10-C28*</b>	<b>416</b>	10.0	07/05/2019	ND	183	91.6	200	0.350	
<b>EXT DRO &gt;C28-C36</b>	<b>309</b>	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 68.2 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 6 - 4' (H902258-20)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28	
Toluene*	<0.050	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398	
Ethylbenzene*	<0.050	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08	
Total Xylenes*	<0.150	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75	
Total BTEX	<0.300	0.300	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/03/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2019	ND	190	94.8	200	0.817	
DRO >C10-C28*	1430	10.0	07/05/2019	ND	183	91.6	200	0.350	
EXT DRO >C28-C36	1120	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 69.5 % 41-142

Surrogate: 1-Chlorooctadecane 141 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 6 - 6' (H902258-21)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28		
Toluene*	<0.050	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398		
Ethylbenzene*	<0.050	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08		
Total Xylenes*	<0.150	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75		
Total BTEX	<0.300	0.300	07/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/03/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2019	ND	190	94.8	200	0.817	
DRO >C10-C28*	12.1	10.0	07/03/2019	ND	183	91.6	200	0.350	
EXT DRO >C28-C36	14.4	10.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 75.4 % 41-142

Surrogate: 1-Chlorooctadecane 74.3 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 7 - SURFACE (H902258-22)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.515	0.500	07/04/2019	ND	1.63	81.6	2.00	2.28	
Toluene*	11.0	0.500	07/04/2019	ND	1.75	87.3	2.00	0.398	
Ethylbenzene*	14.4	0.500	07/04/2019	ND	1.68	84.2	2.00	3.08	
Total Xylenes*	48.6	1.50	07/04/2019	ND	5.11	85.1	6.00	2.75	
Total BTEX	74.5	3.00	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/03/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1580	50.0	07/03/2019	ND	190	94.8	200	0.817		
DRO >C10-C28*	18600	50.0	07/03/2019	ND	183	91.6	200	0.350		
EXT DRO >C28-C36	3700	50.0	07/03/2019	ND						

Surrogate: 1-Chlorooctane 457 % 41-142

Surrogate: 1-Chlorooctadecane 538 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 7 - 2' (H902258-23)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2019	ND	1.63	81.6	2.00	2.28	
Toluene*	<0.050	0.050	07/04/2019	ND	1.75	87.3	2.00	0.398	
Ethylbenzene*	<b>0.059</b>	0.050	07/04/2019	ND	1.68	84.2	2.00	3.08	
Total Xylenes*	<b>0.225</b>	0.150	07/04/2019	ND	5.11	85.1	6.00	2.75	
Total BTEX	<0.300	0.300	07/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>16.0</b>	16.0	07/03/2019	ND	416	104	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>12.8</b>	10.0	07/03/2019	ND	190	94.8	200	0.817	
DRO >C10-C28*	<b>442</b>	10.0	07/03/2019	ND	183	91.6	200	0.350	
EXT DRO >C28-C36	<b>122</b>	10.0	07/03/2019	ND					

Surrogate: 1-Chlorooctane 76.6 % 41-142

Surrogate: 1-Chlorooctadecane 85.7 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 7 - 4' (H902258-24)**

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/03/2019	ND	1.61	80.7	2.00	0.0650	
<b>Toluene*</b>	<b>0.198</b>	0.050	07/03/2019	ND	1.71	85.6	2.00	0.670	
<b>Ethylbenzene*</b>	<b>0.139</b>	0.050	07/03/2019	ND	1.64	81.9	2.00	0.327	
<b>Total Xylenes*</b>	<b>0.401</b>	0.150	07/03/2019	ND	4.97	82.9	6.00	0.539	
<b>Total BTEX</b>	<b>0.737</b>	0.300	07/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	07/03/2019	ND	416	104	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>24.1</b>	10.0	07/04/2019	ND	206	103	200	2.41	
<b>DRO &gt;C10-C28*</b>	<b>912</b>	10.0	07/04/2019	ND	208	104	200	3.99	
<b>EXT DRO &gt;C28-C36</b>	<b>193</b>	10.0	07/04/2019	ND					

Surrogate: 1-Chlorooctane 84.1 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 07/02/2019  
 Reported: 07/09/2019  
 Project Name: BAISH A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: COPC - LEA CO NM

Sampling Date: 07/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP # 7 - 6' (H902258-25)**

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/03/2019	ND	1.61	80.7	2.00	0.0650	
Toluene*	<0.050	0.050	07/03/2019	ND	1.71	85.6	2.00	0.670	
Ethylbenzene*	<0.050	0.050	07/03/2019	ND	1.64	81.9	2.00	0.327	
Total Xylenes*	<0.150	0.150	07/03/2019	ND	4.97	82.9	6.00	0.539	
Total BTEX	<0.300	0.300	07/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/03/2019	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2019	ND	206	103	200	2.41	
DRO >C10-C28*	107	10.0	07/05/2019	ND	208	104	200	3.99	
EXT DRO >C28-C36	87.1	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 68.7 % 41-142

Surrogate: 1-Chlorooctadecane 82.6 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

**Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

---

Caley D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 Fax (575) 393-2476

Page \_\_\_\_ of \_\_\_\_

\* Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476





101 East Marland, Hobbs, NM 88240  
(505) 393-2411 (F7E) 393-2411

(575) 393-2326 Fax (575) 393-2476

Page \_\_\_\_ of \_\_\_\_

- \* Cardinal cannot accept verbal changes. (Heard him say "no" to a change in the lyrics of the Mass.)



**ARDINAL LABORATORIES**  
101 East Marland, Hobbs, NM 8824

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 Fax (575) 393-2476

Page \_\_\_\_ of \_\_\_\_

<b>Company Name:</b> <u>Cenoco Phillips</u> <b>Project Manager:</b> <u>Justin Wright</u> <b>Address:</b> _____ <b>City:</b> <u>Hobbs</u> <b>State:</b> <u>NM</u> <b>Zip:</b> <u>88400</u> <b>Phone #:</b> <u>575-631-9092</u> <b>Fax #:</b> _____ <b>Project Owner:</b> <u>CPL</u> <b>City:</b> _____ <b>State:</b> _____ <b>Zip:</b> _____ <b>Project #:</b> _____ <b>Phone #:</b> _____ <b>Fax #:</b> _____ <b>Project Name:</b> <u>Barish A Battery</u> <b>Project Location:</b> <u>Lea County, NM</u> <b>Sampler Name:</b> <u>Justin Wright</u>				<b>P.O. #:</b> _____ <b>Company:</b> <u>CPL</u> <b>Attn:</b> _____ <b>Address:</b> _____ <b>City:</b> _____ <b>State:</b> _____ <b>Zip:</b> _____ <b>Phone #:</b> _____ <b>Fax #:</b> _____				
<b>FOR LAB USE ONLY</b>				<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>		
<b>Lab I.D.</b>  <b>Sample I.D.</b>	<b>(G)RAB OR (C)OMP.</b> <b># CONTAINERS</b> <b>GROUNDWATER</b> <b>WASTEWATER</b> <b>SOIL</b> <b>OIL</b> <b>SLUDGE</b> <b>OTHER:</b>	<b>MATRIX</b> <b>PRESERV.</b> <b>SAMPLING</b>	<b>DATE</b> <b>TIME</b>	<b>Chlorides</b> <b>TPH</b> <b>BTX</b>				
	21 SP# 6-6'	G	✓	7-1	9:14	✓	✓	✓
	22 SP# 7-Surface	G	✓	7-1	9:21	✓	✓	✓
	23 SP# 7-2'	G	✓	7-1	9:24	✓	✓	✓
	24 SP# 7-4'	G	✓	7-1	9:30	✓	✓	✓
	25 SP# 7-6'	G	✓	7-1	9:41	✓	✓	✓
<b>PLEASE NOTE:</b> Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.				<b>Terms and Conditions:</b> Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.				
<b>Sampler Relinquished:</b> _____ <b>Relinquished By:</b> _____ <b>Date:</b> <u>7-2-19</u> <b>Received By:</b> _____ <b>Time:</b> <u>11:00 AM</u>				<b>REMARKS:</b> _____ <b>Phone Result:</b> <input type="checkbox"/> <b>No</b> <b>Add'l Phone #:</b> _____ <b>Fax Result:</b> <input type="checkbox"/> <b>No</b> <b>Add'l Fax #:</b> _____				
<b>Delivered By:</b> (Circle One) <u>3.30 #97</u> <b>Temp.</b> _____ <b>Sampler - UPS - Bus - Other:</b> _____ <b>Sample Condition</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Cool</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Intact</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>CHECKED BY:</b> _____ (Initials)								





## ANALYTICAL REPORT

September 23, 2019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**ConocoPhillips - Tetra Tech**

Sample Delivery Group: L1139267  
Samples Received: 09/13/2019  
Project Number: 212C-MD-01878  
Description: COP Baish A Battery

Report To: Christian Llull  
901 West Wall  
Suite 100  
Midland, TX 79701

Entire Report Reviewed By:

Jason Romer  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

## TABLE OF CONTENTS



Cp: Cover Page	1	<sup>1</sup> Cp
Tc: Table of Contents	2	
Ss: Sample Summary	4	<sup>2</sup> Tc
Cn: Case Narrative	14	
Sr: Sample Results	15	<sup>3</sup> Ss
BH-1 (0'-1') L1139267-01	15	<sup>4</sup> Cn
BH-1 (2'-3') L1139267-02	16	
BH-1 (4'-5') L1139267-03	17	<sup>5</sup> Sr
BH-1 (6'-7') L1139267-04	18	
BH-1 (9'-10') L1139267-05	19	<sup>6</sup> Qc
BH-2 (0'-1') L1139267-06	20	<sup>7</sup> Gl
BH-2 (2'-3') L1139267-07	21	
BH-2 (4'-5') L1139267-08	22	<sup>8</sup> Al
BH-2 (6'-7') L1139267-09	23	
BH-2 (9'-10') L1139267-10	24	<sup>9</sup> Sc
BH-3 (0'-1') L1139267-11	25	
BH-3 (2'-3') L1139267-12	26	
BH-3 (4'-5') L1139267-13	27	
BH-3 (6'-7') L1139267-14	28	
BH-3 (9'-10') L1139267-15	29	
BH-4 (0'-1') L1139267-16	30	
BH-4 (2'-3') L1139267-17	31	
BH-4 (4'-5') L1139267-18	32	
BH-4 (6'-7') L1139267-19	33	
BH-4 (9'-10') L1139267-20	34	
BH-5 (0'-1') L1139267-21	35	
BH-5 (2'-3') L1139267-22	36	
BH-5 (4'-5') L1139267-23	37	
BH-5 (6'-7') L1139267-24	38	
BH-5 (9'-10') L1139267-25	39	
BH-5 (12'-13') L1139267-26	40	
BH-5 (14'-15') L1139267-27	41	
BH-5 (19'-20') L1139267-28	42	
BH-6 (0'-1') L1139267-29	43	
BH-6 (2'-3') L1139267-30	44	
BH-6 (4'-5') L1139267-31	45	
BH-6 (6'-7') L1139267-32	46	
BH-7 (0'-1') L1139267-33	47	
BH-7 (2'-3') L1139267-34	48	
BH-7 (4'-5') L1139267-35	49	



BH-8 (0'-1') L1139267-36	50
BH-8 (2'-3') L1139267-37	51
BH-8 (4'-5') L1139267-38	52
BH-8 (6'-7') L1139267-39	53
BH-8 (9'-10') L1139267-40	54
BH-9 (0'-1') L1139267-41	55
BH-9 (2'-3') L1139267-42	56
BH-10 (0'-1') L1139267-43	57
BH-10 (2'-3') L1139267-44	58
BH-10 (4'-5') L1139267-45	59
BH-11 (0'-0.5') L1139267-46	60
BH-12 (0'-0.5') L1139267-47	61
Qc: Quality Control Summary	62
Total Solids by Method 2540 G-2011	62
Wet Chemistry by Method 300.0	68
Volatile Organic Compounds (GC) by Method 8015D/GRO	73
Volatile Organic Compounds (GC/MS) by Method 8260B	80
Semi-Volatile Organic Compounds (GC) by Method 8015	83
Gl: Glossary of Terms	88
Al: Accreditations & Locations	90
Sc: Sample Chain of Custody	91



## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BH-1 (0'-1') L1139267-01 Solid

Collected by Collected date/time Received date/time  
09/10/19 12:00 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348336	1	09/19/19 18:59	09/19/19 19:08	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346408	1	09/16/19 23:40	09/17/19 05:38	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347755	1	09/15/19 01:29	09/18/19 18:18	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347343	1	09/15/19 01:29	09/18/19 00:40	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345951	20	09/14/19 19:39	09/16/19 15:56	TJD	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-1 (2'-3') L1139267-02 Solid

Collected by Collected date/time Received date/time  
09/10/19 12:05 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348337	1	09/19/19 18:49	09/19/19 18:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346408	1	09/16/19 23:40	09/17/19 05:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347755	1	09/15/19 01:29	09/18/19 18:38	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347343	1	09/15/19 01:29	09/18/19 01:01	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345951	20	09/14/19 19:39	09/16/19 15:15	TJD	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-1 (4'-5') L1139267-03 Solid

Collected by Collected date/time Received date/time  
09/10/19 12:10 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348337	1	09/19/19 18:49	09/19/19 18:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346408	1	09/16/19 23:40	09/17/19 07:05	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347755	1	09/15/19 01:29	09/18/19 19:25	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347343	1	09/15/19 01:29	09/18/19 01:22	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345951	40	09/14/19 19:39	09/16/19 16:09	TJD	Mt. Juliet, TN

9 Sc

BH-1 (6'-7') L1139267-04 Solid

Collected by Collected date/time Received date/time  
09/10/19 12:20 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348337	1	09/19/19 18:49	09/19/19 18:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346408	1	09/16/19 23:40	09/17/19 07:19	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347755	1	09/15/19 01:29	09/18/19 19:45	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347343	1	09/15/19 01:29	09/18/19 01:42	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345951	5	09/14/19 19:39	09/16/19 14:49	TJD	Mt. Juliet, TN

BH-1 (9'-10') L1139267-05 Solid

Collected by Collected date/time Received date/time  
09/10/19 12:30 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348337	1	09/19/19 18:49	09/19/19 18:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346408	5	09/16/19 23:40	09/17/19 07:34	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347755	1	09/15/19 01:29	09/18/19 20:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347343	1	09/15/19 01:29	09/18/19 02:02	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345951	1	09/14/19 19:39	09/16/19 14:22	TJD	Mt. Juliet, TN



## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BH-2 (0'-1') L1139267-06 Solid

Collected by Collected date/time Received date/time  
09/10/19 13:00 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348337	1	09/19/19 18:49	09/19/19 18:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346408	1	09/16/19 23:40	09/17/19 07:48	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347755	1	09/15/19 01:29	09/18/19 20:26	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347343	1	09/15/19 01:29	09/18/19 02:23	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345951	20	09/14/19 19:39	09/16/19 15:42	TJD	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-2 (2'-3') L1139267-07 Solid

Collected by Collected date/time Received date/time  
09/10/19 13:05 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348337	1	09/19/19 18:49	09/19/19 18:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346408	1	09/16/19 23:40	09/17/19 08:17	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347755	1	09/15/19 01:29	09/18/19 20:46	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347343	1	09/15/19 01:29	09/18/19 02:44	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345951	40	09/14/19 19:39	09/16/19 15:29	TJD	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-2 (4'-5') L1139267-08 Solid

Collected by Collected date/time Received date/time  
09/10/19 13:10 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348337	1	09/19/19 18:49	09/19/19 18:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/16/19 23:05	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348549	1	09/15/19 01:29	09/19/19 13:10	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347343	1	09/15/19 01:29	09/18/19 03:04	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345951	5	09/14/19 19:39	09/16/19 15:02	TJD	Mt. Juliet, TN

9 Sc

BH-2 (6'-7') L1139267-09 Solid

Collected by Collected date/time Received date/time  
09/10/19 13:20 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348337	1	09/19/19 18:49	09/19/19 18:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/16/19 23:34	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347755	1	09/15/19 01:29	09/18/19 22:01	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347343	1	09/15/19 01:29	09/18/19 03:25	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345951	1	09/14/19 19:39	09/16/19 14:35	TJD	Mt. Juliet, TN

BH-2 (9'-10') L1139267-10 Solid

Collected by Collected date/time Received date/time  
09/10/19 13:30 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348337	1	09/19/19 18:49	09/19/19 18:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/16/19 23:43	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347755	1	09/15/19 01:29	09/18/19 22:21	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347343	1	09/15/19 01:29	09/18/19 03:46	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	1	09/14/19 16:48	09/15/19 22:32	CLG	Mt. Juliet, TN

## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BH-3 (0'-1') L1139267-11 Solid

Collected by Collected date/time Received date/time  
09/10/19 14:00 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348337	1	09/19/19 18:49	09/19/19 18:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/16/19 23:53	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347755	1	09/15/19 01:29	09/18/19 22:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347343	1	09/15/19 01:29	09/18/19 04:06	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	10	09/14/19 16:48	09/16/19 01:48	CLG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-3 (2'-3') L1139267-12 Solid

Collected by Collected date/time Received date/time  
09/10/19 14:10 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348339	1	09/19/19 18:37	09/19/19 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/17/19 00:03	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347755	1	09/15/19 01:29	09/18/19 23:03	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347343	1	09/15/19 01:29	09/18/19 04:27	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	40	09/14/19 16:48	09/16/19 02:01	CLG	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-3 (4'-5') L1139267-13 Solid

Collected by Collected date/time Received date/time  
09/10/19 14:20 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348339	1	09/19/19 18:37	09/19/19 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/17/19 00:22	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347802	1	09/15/19 01:29	09/18/19 15:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:29	09/18/19 06:30	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	20	09/14/19 16:48	09/16/19 02:15	CLG	Mt. Juliet, TN

9 Sc

BH-3 (6'-7') L1139267-14 Solid

Collected by Collected date/time Received date/time  
09/10/19 14:30 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348339	1	09/19/19 18:37	09/19/19 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/17/19 00:31	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347802	1	09/15/19 01:29	09/18/19 15:25	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:29	09/18/19 06:48	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	10	09/14/19 16:48	09/16/19 13:42	TJD	Mt. Juliet, TN

BH-3 (9'-10') L1139267-15 Solid

Collected by Collected date/time Received date/time  
09/10/19 14:40 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348339	1	09/19/19 18:37	09/19/19 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/17/19 01:00	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347802	1	09/15/19 01:29	09/18/19 15:45	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:29	09/18/19 07:07	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	1	09/14/19 16:48	09/16/19 00:04	CLG	Mt. Juliet, TN

## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BH-4 (0'-1') L1139267-16 Solid

Collected by: 09/10/19 15:10  
Collected date/time: 09/10/19 15:10  
Received date/time: 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348339	1	09/19/19 18:37	09/19/19 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/17/19 01:09	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347802	1	09/15/19 01:29	09/18/19 16:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:29	09/18/19 07:25	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	10	09/14/19 16:48	09/16/19 00:30	CLG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-4 (2'-3') L1139267-17 Solid

Collected by: 09/10/19 15:20  
Collected date/time: 09/10/19 15:20  
Received date/time: 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348339	1	09/19/19 18:37	09/19/19 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/17/19 01:19	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347802	1	09/15/19 01:29	09/18/19 16:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:29	09/18/19 07:44	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	50	09/14/19 16:48	09/21/19 13:22	JDG	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-4 (4'-5') L1139267-18 Solid

Collected by: 09/10/19 15:30  
Collected date/time: 09/10/19 15:30  
Received date/time: 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348339	1	09/19/19 18:37	09/19/19 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/17/19 01:28	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347802	1	09/15/19 01:29	09/18/19 16:47	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:29	09/18/19 08:02	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	1	09/14/19 16:48	09/15/19 23:38	CLG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	5	09/14/19 16:48	09/16/19 16:49	TJD	Mt. Juliet, TN

9 Sc

BH-4 (6'-7') L1139267-19 Solid

Collected by: 09/10/19 15:40  
Collected date/time: 09/10/19 15:40  
Received date/time: 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348339	1	09/19/19 18:37	09/19/19 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/17/19 01:38	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347802	1	09/15/19 01:29	09/18/19 17:08	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:29	09/18/19 08:21	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	1	09/14/19 16:48	09/15/19 22:58	CLG	Mt. Juliet, TN

BH-4 (9'-10') L1139267-20 Solid

Collected by: 09/10/19 16:00  
Collected date/time: 09/10/19 16:00  
Received date/time: 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348339	1	09/19/19 18:37	09/19/19 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346419	1	09/16/19 18:10	09/17/19 01:47	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347802	1	09/15/19 01:29	09/18/19 17:28	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:29	09/18/19 08:40	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	1	09/14/19 16:48	09/15/19 22:45	CLG	Mt. Juliet, TN

## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BH-5 (0'-1') L1139267-21 Solid

Collected by Collected date/time Received date/time  
09/11/19 10:30 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348339	1	09/19/19 18:37	09/19/19 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/17/19 21:20	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347802	1.01	09/15/19 01:35	09/18/19 17:49	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:35	09/18/19 08:58	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	1	09/14/19 16:48	09/15/19 23:51	CLG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-5 (2'-3') L1139267-22 Solid

Collected by Collected date/time Received date/time  
09/11/19 10:40 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348340	1	09/19/19 18:12	09/19/19 18:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/17/19 21:38	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347802	1	09/15/19 01:35	09/18/19 18:09	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:35	09/18/19 09:17	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	50	09/14/19 16:48	09/16/19 02:28	CLG	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-5 (4'-5') L1139267-23 Solid

Collected by Collected date/time Received date/time  
09/11/19 10:50 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348340	1	09/19/19 18:12	09/19/19 18:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/17/19 21:48	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347802	1	09/15/19 01:35	09/18/19 18:29	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:35	09/18/19 09:36	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	50	09/14/19 16:48	09/16/19 02:41	CLG	Mt. Juliet, TN

9 Sc

BH-5 (6'-7') L1139267-24 Solid

Collected by Collected date/time Received date/time  
09/11/19 11:00 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348340	1	09/19/19 18:12	09/19/19 18:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/17/19 21:57	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1347802	1	09/15/19 01:35	09/18/19 18:50	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:35	09/18/19 09:55	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	5	09/14/19 16:48	09/16/19 00:17	CLG	Mt. Juliet, TN

BH-5 (9'-10') L1139267-25 Solid

Collected by Collected date/time Received date/time  
09/11/19 11:10 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348340	1	09/19/19 18:12	09/19/19 18:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/17/19 22:07	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348959	25	09/15/19 01:35	09/20/19 14:56	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:35	09/18/19 10:13	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	10	09/14/19 16:48	09/16/19 00:56	CLG	Mt. Juliet, TN

## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BH-5 (12'-13') L1139267-26 Solid

Collected by Collected date/time Received date/time  
09/11/19 11:20 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348340	1	09/19/19 18:12	09/19/19 18:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/17/19 22:16	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348959	1	09/15/19 01:35	09/20/19 14:08	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:35	09/18/19 10:32	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	1	09/14/19 16:48	09/15/19 23:12	CLG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-5 (14'-15') L1139267-27 Solid

Collected by Collected date/time Received date/time  
09/11/19 11:30 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348340	1	09/19/19 18:12	09/19/19 18:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/17/19 22:26	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348959	1	09/15/19 01:35	09/20/19 14:32	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:35	09/18/19 10:50	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1345980	1	09/14/19 16:48	09/15/19 23:25	CLG	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-5 (19'-20') L1139267-28 Solid

Collected by Collected date/time Received date/time  
09/11/19 11:50 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348340	1	09/19/19 18:12	09/19/19 18:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/17/19 22:54	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348619	1	09/15/19 01:35	09/19/19 19:45	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:35	09/18/19 11:08	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1346816	1	09/17/19 13:35	09/17/19 19:11	JDG	Mt. Juliet, TN

9 Sc

BH-6 (0'-1') L1139267-29 Solid

Collected by Collected date/time Received date/time  
09/11/19 12:00 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348340	1	09/19/19 18:12	09/19/19 18:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/17/19 23:04	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348619	1	09/15/19 01:35	09/19/19 20:05	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:35	09/18/19 11:27	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1346816	1	09/17/19 13:35	09/17/19 20:29	JDG	Mt. Juliet, TN

BH-6 (2'-3') L1139267-30 Solid

Collected by Collected date/time Received date/time  
09/11/19 12:10 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348340	1	09/19/19 18:12	09/19/19 18:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/17/19 23:33	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348619	1	09/15/19 01:35	09/19/19 20:26	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 01:35	09/18/19 11:46	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1346816	1	09/17/19 13:35	09/17/19 20:55	JDG	Mt. Juliet, TN

## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BH-6 (4'-5') L1139267-31 Solid

Collected by Collected date/time Received date/time  
09/11/19 12:20 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348340	1	09/19/19 18:12	09/19/19 18:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/17/19 23:42	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348619	1	09/15/19 22:18	09/19/19 20:46	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 22:18	09/18/19 12:04	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1346816	1	09/17/19 13:35	09/17/19 19:37	JDG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-6 (6'-7') L1139267-32 Solid

Collected by Collected date/time Received date/time  
09/11/19 12:30 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348341	1	09/19/19 17:46	09/19/19 18:09	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/17/19 23:52	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348619	1	09/15/19 22:18	09/19/19 21:07	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347349	1	09/15/19 22:18	09/18/19 12:23	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1346816	1	09/17/19 13:35	09/17/19 19:24	JDG	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-7 (0'-1') L1139267-33 Solid

Collected by Collected date/time Received date/time  
09/11/19 12:50 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348341	1	09/19/19 17:46	09/19/19 18:09	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/18/19 00:01	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348619	1	09/15/19 22:18	09/19/19 21:27	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 22:18	09/18/19 11:04	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1346816	1	09/17/19 13:35	09/17/19 21:08	JDG	Mt. Juliet, TN

9 Sc

BH-7 (2'-3') L1139267-34 Solid

Collected by Collected date/time Received date/time  
09/11/19 13:00 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348341	1	09/19/19 17:46	09/19/19 18:09	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/18/19 00:11	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348619	1	09/15/19 22:18	09/19/19 21:47	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 22:18	09/18/19 11:25	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1346816	1	09/17/19 13:35	09/17/19 20:42	JDG	Mt. Juliet, TN

BH-7 (4'-5') L1139267-35 Solid

Collected by Collected date/time Received date/time  
09/11/19 13:10 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348341	1	09/19/19 17:46	09/19/19 18:09	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/18/19 00:20	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348624	1	09/15/19 22:18	09/20/19 05:55	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 22:18	09/18/19 11:45	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1346816	5	09/17/19 13:35	09/17/19 21:21	JDG	Mt. Juliet, TN

## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BH-8 (0'-1') L1139267-36 Solid

Collected by Collected date/time Received date/time  
09/11/19 13:30 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348341	1	09/19/19 17:46	09/19/19 18:09	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/18/19 00:49	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348624	1	09/15/19 22:18	09/20/19 06:17	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 22:18	09/18/19 12:05	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1346816	20	09/17/19 13:35	09/21/19 12:56	JDG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-8 (2'-3') L1139267-37 Solid

Collected by Collected date/time Received date/time  
09/11/19 13:40 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348341	1	09/19/19 17:46	09/19/19 18:09	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/18/19 00:58	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348624	1	09/15/19 22:18	09/20/19 06:40	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 22:18	09/18/19 12:26	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1346816	50	09/17/19 13:35	09/21/19 13:09	JDG	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-8 (4'-5') L1139267-38 Solid

Collected by Collected date/time Received date/time  
09/11/19 13:50 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348341	1	09/19/19 17:46	09/19/19 18:09	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/18/19 01:08	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348624	1	09/15/19 22:18	09/20/19 07:59	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 22:18	09/18/19 12:46	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1346816	50	09/17/19 13:35	09/17/19 21:34	JDG	Mt. Juliet, TN

9 Sc

BH-8 (6'-7') L1139267-39 Solid

Collected by Collected date/time Received date/time  
09/11/19 14:00 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348341	1	09/19/19 17:46	09/19/19 18:09	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/18/19 01:17	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348624	1	09/15/19 22:18	09/20/19 08:22	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 22:18	09/18/19 13:07	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1346816	50	09/17/19 13:35	09/17/19 21:47	JDG	Mt. Juliet, TN

BH-8 (9'-10') L1139267-40 Solid

Collected by Collected date/time Received date/time  
09/11/19 14:10 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348341	1	09/19/19 17:46	09/19/19 18:09	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1346738	1	09/17/19 18:10	09/18/19 01:27	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348624	1	09/15/19 22:18	09/20/19 08:44	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 22:18	09/18/19 13:28	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1347218	1	09/17/19 16:59	09/18/19 22:06	CLG	Mt. Juliet, TN



## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BH-9 (0'-1') L1139267-41 Solid

Collected by Collected date/time Received date/time  
09/11/19 14:40 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348341	1	09/19/19 17:46	09/19/19 18:09	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1347692	1	09/18/19 18:40	09/18/19 21:17	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348624	1	09/15/19 23:40	09/20/19 09:48	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 23:40	09/18/19 13:49	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1347218	20	09/17/19 16:59	09/18/19 23:52	CLG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-9 (2'-3') L1139267-42 Solid

Collected by Collected date/time Received date/time  
09/11/19 14:50 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348343	1	09/19/19 13:37	09/19/19 13:54	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1347474	1	09/18/19 08:10	09/18/19 10:42	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348624	1	09/15/19 23:40	09/20/19 10:11	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 23:40	09/18/19 14:10	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1347218	20	09/17/19 16:59	09/19/19 00:06	CLG	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-10 (0'-1') L1139267-43 Solid

Collected by Collected date/time Received date/time  
09/11/19 15:00 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348343	1	09/19/19 13:37	09/19/19 13:54	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1347474	1	09/18/19 08:10	09/18/19 11:10	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348819	1	09/15/19 23:40	09/20/19 01:02	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 23:40	09/18/19 14:31	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1347218	1	09/17/19 16:59	09/18/19 22:59	CLG	Mt. Juliet, TN

9 Sc

BH-10 (2'-3') L1139267-44 Solid

Collected by Collected date/time Received date/time  
09/11/19 15:10 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348343	1	09/19/19 13:37	09/19/19 13:54	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1347474	1	09/18/19 08:10	09/18/19 11:29	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348819	1	09/15/19 23:40	09/20/19 01:22	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 23:40	09/18/19 14:51	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1347218	1	09/17/19 16:59	09/18/19 22:46	CLG	Mt. Juliet, TN

BH-10 (4'-5') L1139267-45 Solid

Collected by Collected date/time Received date/time  
09/11/19 15:20 09/13/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1348343	1	09/19/19 13:37	09/19/19 13:54	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1347474	1	09/18/19 08:10	09/18/19 11:39	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348819	1.01	09/15/19 23:40	09/20/19 01:43	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 23:40	09/18/19 15:12	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1347221	2	09/17/19 16:20	09/18/19 16:21	TJD	Mt. Juliet, TN

BH-11 (0'-0.5') L1139267-46 Solid				Collected by	Collected date/time	Received date/time	<div>1Cp</div> <div>2Tc</div> <div>3Ss</div> <div>4Cn</div> <div>5Sr</div> <div>6Qc</div> <div>7Gl</div> <div>8Al</div> <div>9Sc</div>
					09/11/19 16:00	09/13/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1348343	1	09/19/19 13:37	09/19/19 13:54	KDW	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1347474	1	09/18/19 08:10	09/18/19 11:48	LDC	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348819	1.01	09/15/19 23:40	09/20/19 02:03	JHH	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 23:40	09/18/19 15:32	JHH	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1347221	5	09/17/19 16:20	09/18/19 06:04	JDG	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1347221	5	09/17/19 16:20	09/18/19 16:34	TJD	Mt. Juliet, TN	
BH-12 (0'-0.5') L1139267-47 Solid				Collected by	Collected date/time	Received date/time	
					09/11/19 16:30	09/13/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1348343	1	09/19/19 13:37	09/19/19 13:54	KDW	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1347474	1	09/18/19 08:10	09/18/19 11:58	LDC	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1348819	1.01	09/15/19 23:40	09/20/19 02:24	JHH	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1347795	1	09/15/19 23:40	09/18/19 15:59	JHH	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1347221	5	09/17/19 16:20	09/18/19 06:19	JDG	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1347221	5	09/17/19 16:20	09/18/19 16:47	TJD	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.

Jason Romer  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

BH-1 (0'-1')

## SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 12:00

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.2		1	09/19/2019 19:08	<a href="#">WG1348336</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	458		0.845	10.0	10.6	1	09/17/2019 05:38	<a href="#">WG1346408</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0230	0.100	0.106	1	09/18/2019 18:18	<a href="#">WG1347755</a>
(S) a,a,a-Trifluorotoluene(FID)	94.0				77.0-120		09/18/2019 18:18	<a href="#">WG1347755</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000425	0.00100	0.00106	1	09/18/2019 00:40	<a href="#">WG1347343</a>
Toluene	U		0.00133	0.00500	0.00531	1	09/18/2019 00:40	<a href="#">WG1347343</a>
Ethylbenzene	U		0.000563	0.00250	0.00266	1	09/18/2019 00:40	<a href="#">WG1347343</a>
Total Xylenes	U	<a href="#">J4</a>	0.00508	0.00650	0.00690	1	09/18/2019 00:40	<a href="#">WG1347343</a>
(S) Toluene-d8	115				75.0-131		09/18/2019 00:40	<a href="#">WG1347343</a>
(S) 4-Bromofluorobenzene	103				67.0-138		09/18/2019 00:40	<a href="#">WG1347343</a>
(S) 1,2-Dichloroethane-d4	113				70.0-130		09/18/2019 00:40	<a href="#">WG1347343</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1420		34.2	4.00	85.0	20	09/16/2019 15:56	<a href="#">WG1345951</a>
C28-C40 Oil Range	1760		5.82	4.00	85.0	20	09/16/2019 15:56	<a href="#">WG1345951</a>
(S) o-Terphenyl	0.000	<a href="#">J7</a>			18.0-148		09/16/2019 15:56	<a href="#">WG1345951</a>

BH-1 (2'-3')

## SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 12:05

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.6		1	09/19/2019 18:57	<a href="#">WG1348337</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	148	<a href="#">J5</a>	0.823	10.0	10.3	1	09/17/2019 05:53	<a href="#">WG1346408</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0225	0.100	0.103	1	09/18/2019 18:38	<a href="#">WG1347755</a>
(S) a,a,a-Trifluorotoluene(FID)	93.6				77.0-120		09/18/2019 18:38	<a href="#">WG1347755</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000414	0.00100	0.00103	1	09/18/2019 01:01	<a href="#">WG1347343</a>
Toluene	U		0.00129	0.00500	0.00517	1	09/18/2019 01:01	<a href="#">WG1347343</a>
Ethylbenzene	U		0.000548	0.00250	0.00259	1	09/18/2019 01:01	<a href="#">WG1347343</a>
Total Xylenes	U	<a href="#">J4</a>	0.00495	0.00650	0.00673	1	09/18/2019 01:01	<a href="#">WG1347343</a>
(S) Toluene-d8	112				75.0-131		09/18/2019 01:01	<a href="#">WG1347343</a>
(S) 4-Bromofluorobenzene	103				67.0-138		09/18/2019 01:01	<a href="#">WG1347343</a>
(S) 1,2-Dichloroethane-d4	112				70.0-130		09/18/2019 01:01	<a href="#">WG1347343</a>

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1080		33.3	4.00	82.8	20	09/16/2019 15:15	<a href="#">WG1345951</a>
C28-C40 Oil Range	1400		5.67	4.00	82.8	20	09/16/2019 15:15	<a href="#">WG1345951</a>
(S) o-Terphenyl	0.000	<a href="#">J7</a>			18.0-148		09/16/2019 15:15	<a href="#">WG1345951</a>

BH-1 (4'-5')

## SAMPLE RESULTS - 03

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 12:10

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.4		1	09/19/2019 18:57	<a href="#">WG1348337</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	408		0.816	10.0	10.3	1	09/17/2019 07:05	<a href="#">WG1346408</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0223	0.100	0.103	1	09/18/2019 19:25	<a href="#">WG1347755</a>
(S) a,a,a-Trifluorotoluene(FID)	93.8				77.0-120		09/18/2019 19:25	<a href="#">WG1347755</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000411	0.00100	0.00103	1	09/18/2019 01:22	<a href="#">WG1347343</a>
Toluene	U		0.00128	0.00500	0.00513	1	09/18/2019 01:22	<a href="#">WG1347343</a>
Ethylbenzene	U		0.000544	0.00250	0.00257	1	09/18/2019 01:22	<a href="#">WG1347343</a>
Total Xylenes	U	<a href="#">J4</a>	0.00491	0.00650	0.00667	1	09/18/2019 01:22	<a href="#">WG1347343</a>
(S) Toluene-d8	111				75.0-131		09/18/2019 01:22	<a href="#">WG1347343</a>
(S) 4-Bromofluorobenzene	98.3				67.0-138		09/18/2019 01:22	<a href="#">WG1347343</a>
(S) 1,2-Dichloroethane-d4	112				70.0-130		09/18/2019 01:22	<a href="#">WG1347343</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	317		66.1	4.00	164	40	09/16/2019 16:09	<a href="#">WG1345951</a>
C28-C40 Oil Range	663		11.3	4.00	164	40	09/16/2019 16:09	<a href="#">WG1345951</a>
(S) o-Terphenyl	0.000	<a href="#">J7</a>			18.0-148		09/16/2019 16:09	<a href="#">WG1345951</a>

BH-1 (6'-7')

## SAMPLE RESULTS - 04

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 12:20

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.2		1	09/19/2019 18:57	<a href="#">WG1348337</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	377		0.863	10.0	10.8	1	09/17/2019 07:19	<a href="#">WG1346408</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0235	0.100	0.108	1	09/18/2019 19:45	<a href="#">WG1347755</a>
(S) a,a,a-Trifluorotoluene(FID)	93.2				77.0-120		09/18/2019 19:45	<a href="#">WG1347755</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000434	0.00100	0.00108	1	09/18/2019 01:42	<a href="#">WG1347343</a>
Toluene	U		0.00136	0.00500	0.00542	1	09/18/2019 01:42	<a href="#">WG1347343</a>
Ethylbenzene	U		0.000575	0.00250	0.00271	1	09/18/2019 01:42	<a href="#">WG1347343</a>
Total Xylenes	U	<a href="#">J4</a>	0.00519	0.00650	0.00705	1	09/18/2019 01:42	<a href="#">WG1347343</a>
(S) Toluene-d8	113				75.0-131		09/18/2019 01:42	<a href="#">WG1347343</a>
(S) 4-Bromofluorobenzene	97.7				67.0-138		09/18/2019 01:42	<a href="#">WG1347343</a>
(S) 1,2-Dichloroethane-d4	110				70.0-130		09/18/2019 01:42	<a href="#">WG1347343</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	28.0		8.73	4.00	21.7	5	09/16/2019 14:49	<a href="#">WG1345951</a>
C28-C40 Oil Range	59.8		1.49	4.00	21.7	5	09/16/2019 14:49	<a href="#">WG1345951</a>
(S) o-Terphenyl	75.7				18.0-148		09/16/2019 14:49	<a href="#">WG1345951</a>



BH-1 (9'-10')

## SAMPLE RESULTS - 05

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 12:30

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.1		1	09/19/2019 18:57	<a href="#">WG1348337</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	935		4.52	10.0	56.8	5	09/17/2019 07:34	<a href="#">WG1346408</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0246	0.100	0.114	1	09/18/2019 20:05	<a href="#">WG1347755</a>
(S) a,a,a-Trifluorotoluene(FID)	92.2				77.0-120		09/18/2019 20:05	<a href="#">WG1347755</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000454	0.00100	0.00114	1	09/18/2019 02:02	<a href="#">WG1347343</a>
Toluene	U		0.00142	0.00500	0.00568	1	09/18/2019 02:02	<a href="#">WG1347343</a>
Ethylbenzene	U		0.000602	0.00250	0.00284	1	09/18/2019 02:02	<a href="#">WG1347343</a>
Total Xylenes	U	<a href="#">J4</a>	0.00543	0.00650	0.00738	1	09/18/2019 02:02	<a href="#">WG1347343</a>
(S) Toluene-d8	114				75.0-131		09/18/2019 02:02	<a href="#">WG1347343</a>
(S) 4-Bromofluorobenzene	100				67.0-138		09/18/2019 02:02	<a href="#">WG1347343</a>
(S) 1,2-Dichloroethane-d4	111				70.0-130		09/18/2019 02:02	<a href="#">WG1347343</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	25.4		1.83	4.00	4.54	1	09/16/2019 14:22	<a href="#">WG1345951</a>
C28-C40 Oil Range	44.4		0.311	4.00	4.54	1	09/16/2019 14:22	<a href="#">WG1345951</a>
(S) o-Terphenyl	68.3				18.0-148		09/16/2019 14:22	<a href="#">WG1345951</a>

BH-2 (0'-1')

## SAMPLE RESULTS - 06

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 13:00

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	09/19/2019 18:57	<a href="#">WG1348337</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	281		0.822	10.0	10.3	1	09/17/2019 07:48	<a href="#">WG1346408</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.140	<u>B</u>	0.0224	0.100	0.103	1	09/18/2019 20:26	<a href="#">WG1347755</a>
(S) a,a,a-Trifluorotoluene(FID)	93.5				77.0-120		09/18/2019 20:26	<a href="#">WG1347755</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000413	0.00100	0.00103	1	09/18/2019 02:23	<a href="#">WG1347343</a>
Toluene	U		0.00129	0.00500	0.00517	1	09/18/2019 02:23	<a href="#">WG1347343</a>
Ethylbenzene	U		0.000548	0.00250	0.00258	1	09/18/2019 02:23	<a href="#">WG1347343</a>
Total Xylenes	U	<u>J4</u>	0.00494	0.00650	0.00672	1	09/18/2019 02:23	<a href="#">WG1347343</a>
(S) Toluene-d8	109				75.0-131		09/18/2019 02:23	<a href="#">WG1347343</a>
(S) 4-Bromofluorobenzene	114				67.0-138		09/18/2019 02:23	<a href="#">WG1347343</a>
(S) 1,2-Dichloroethane-d4	114				70.0-130		09/18/2019 02:23	<a href="#">WG1347343</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2880		33.3	4.00	82.7	20	09/16/2019 15:42	<a href="#">WG1345951</a>
C28-C40 Oil Range	1680		5.66	4.00	82.7	20	09/16/2019 15:42	<a href="#">WG1345951</a>
(S) o-Terphenyl	0.000	<u>J7</u>			18.0-148		09/16/2019 15:42	<a href="#">WG1345951</a>

BH-2 (2'-3')

## SAMPLE RESULTS - 07

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 13:05

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.6		1	09/19/2019 18:57	<a href="#">WG1348337</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	157		0.815	10.0	10.2	1	09/17/2019 08:17	<a href="#">WG1346408</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0655	<a href="#">B J</a>	0.0222	0.100	0.102	1	09/18/2019 20:46	<a href="#">WG1347755</a>
(S) a,a,a-Trifluorotoluene(FID)	93.5				77.0-120		09/18/2019 20:46	<a href="#">WG1347755</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000410	0.00100	0.00102	1	09/18/2019 02:44	<a href="#">WG1347343</a>
Toluene	U		0.00128	0.00500	0.00512	1	09/18/2019 02:44	<a href="#">WG1347343</a>
Ethylbenzene	U		0.000543	0.00250	0.00256	1	09/18/2019 02:44	<a href="#">WG1347343</a>
Total Xylenes	U	<a href="#">J4</a>	0.00490	0.00650	0.00666	1	09/18/2019 02:44	<a href="#">WG1347343</a>
(S) Toluene-d8	109				75.0-131		09/18/2019 02:44	<a href="#">WG1347343</a>
(S) 4-Bromofluorobenzene	107				67.0-138		09/18/2019 02:44	<a href="#">WG1347343</a>
(S) 1,2-Dichloroethane-d4	111				70.0-130		09/18/2019 02:44	<a href="#">WG1347343</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1020		66.0	4.00	164	40	09/16/2019 15:29	<a href="#">WG1345951</a>
C28-C40 Oil Range	1180		11.2	4.00	164	40	09/16/2019 15:29	<a href="#">WG1345951</a>
(S) o-Terphenyl	0.000	<a href="#">J7</a>			18.0-148		09/16/2019 15:29	<a href="#">WG1345951</a>

BH-2 (4'-5')

## SAMPLE RESULTS - 08

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 13:10

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.9		1	09/19/2019 18:57	<a href="#">WG1348337</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	70.7		0.804	10.0	10.1	1	09/16/2019 23:05	<a href="#">WG1346419</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0219	0.100	0.101	1	09/19/2019 13:10	<a href="#">WG1348549</a>
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		09/19/2019 13:10	<a href="#">WG1348549</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000404	0.00100	0.00101	1	09/18/2019 03:04	<a href="#">WG1347343</a>
Toluene	U		0.00126	0.00500	0.00506	1	09/18/2019 03:04	<a href="#">WG1347343</a>
Ethylbenzene	U		0.000536	0.00250	0.00253	1	09/18/2019 03:04	<a href="#">WG1347343</a>
Total Xylenes	U	<a href="#">J4</a>	0.00483	0.00650	0.00657	1	09/18/2019 03:04	<a href="#">WG1347343</a>
(S) Toluene-d8	108				75.0-131		09/18/2019 03:04	<a href="#">WG1347343</a>
(S) 4-Bromofluorobenzene	103				67.0-138		09/18/2019 03:04	<a href="#">WG1347343</a>
(S) 1,2-Dichloroethane-d4	110				70.0-130		09/18/2019 03:04	<a href="#">WG1347343</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	152		8.14	4.00	20.2	5	09/16/2019 15:02	<a href="#">WG1345951</a>
C28-C40 Oil Range	232		1.39	4.00	20.2	5	09/16/2019 15:02	<a href="#">WG1345951</a>
(S) o-Terphenyl	118				18.0-148		09/16/2019 15:02	<a href="#">WG1345951</a>

BH-2 (6'-7')

## SAMPLE RESULTS - 09

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 13:20

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.5		1	09/19/2019 18:57	<a href="#">WG1348337</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	108		0.816	10.0	10.3	1	09/16/2019 23:34	<a href="#">WG1346419</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0230	<a href="#">B J</a>	0.0223	0.100	0.103	1	09/18/2019 22:01	<a href="#">WG1347755</a>
(S) a,a,a-Trifluorotoluene(FID)	93.5				77.0-120		09/18/2019 22:01	<a href="#">WG1347755</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000410	0.00100	0.00103	1	09/18/2019 03:25	<a href="#">WG1347343</a>
Toluene	U		0.00128	0.00500	0.00513	1	09/18/2019 03:25	<a href="#">WG1347343</a>
Ethylbenzene	U		0.000544	0.00250	0.00256	1	09/18/2019 03:25	<a href="#">WG1347343</a>
Total Xylenes	U	<a href="#">J4</a>	0.00490	0.00650	0.00667	1	09/18/2019 03:25	<a href="#">WG1347343</a>
(S) Toluene-d8	110				75.0-131		09/18/2019 03:25	<a href="#">WG1347343</a>
(S) 4-Bromofluorobenzene	104				67.0-138		09/18/2019 03:25	<a href="#">WG1347343</a>
(S) 1,2-Dichloroethane-d4	110				70.0-130		09/18/2019 03:25	<a href="#">WG1347343</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	43.2		1.65	4.00	4.10	1	09/16/2019 14:35	<a href="#">WG1345951</a>
C28-C40 Oil Range	60.8		0.281	4.00	4.10	1	09/16/2019 14:35	<a href="#">WG1345951</a>
(S) o-Terphenyl	76.8				18.0-148		09/16/2019 14:35	<a href="#">WG1345951</a>

BH-2 (9'-10')

## SAMPLE RESULTS - 10

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 13:30

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.8		1	09/19/2019 18:57	<a href="#">WG1348337</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	190		0.848	10.0	10.7	1	09/16/2019 23:43	<a href="#">WG1346419</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0231	0.100	0.107	1	09/18/2019 22:21	<a href="#">WG1347755</a>
(S) a,a,a-Trifluorotoluene(FID)	93.6				77.0-120		09/18/2019 22:21	<a href="#">WG1347755</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000426	0.00100	0.00107	1	09/18/2019 03:46	<a href="#">WG1347343</a>
Toluene	U		0.00133	0.00500	0.00533	1	09/18/2019 03:46	<a href="#">WG1347343</a>
Ethylbenzene	U		0.000565	0.00250	0.00267	1	09/18/2019 03:46	<a href="#">WG1347343</a>
Total Xylenes	U	<a href="#">J4</a>	0.00510	0.00650	0.00693	1	09/18/2019 03:46	<a href="#">WG1347343</a>
(S) Toluene-d8	110				75.0-131		09/18/2019 03:46	<a href="#">WG1347343</a>
(S) 4-Bromofluorobenzene	100				67.0-138		09/18/2019 03:46	<a href="#">WG1347343</a>
(S) 1,2-Dichloroethane-d4	110				70.0-130		09/18/2019 03:46	<a href="#">WG1347343</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.63		1.72	4.00	4.26	1	09/15/2019 22:32	<a href="#">WG1345980</a>
C28-C40 Oil Range	15.9		0.292	4.00	4.26	1	09/15/2019 22:32	<a href="#">WG1345980</a>
(S) o-Terphenyl	62.8				18.0-148		09/15/2019 22:32	<a href="#">WG1345980</a>

BH-3 (0'-1')

## SAMPLE RESULTS - 11

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 14:00

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.4		1	09/19/2019 18:57	<a href="#">WG1348337</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	23.5	<u>B</u>	0.817	10.0	10.3	1	09/16/2019 23:53	<a href="#">WG1346419</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0236	<u>B J</u>	0.0223	0.100	0.103	1	09/18/2019 22:42	<a href="#">WG1347755</a>
(S) a,a,a-Trifluorotoluene(FID)	91.7				77.0-120		09/18/2019 22:42	<a href="#">WG1347755</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000411	0.00100	0.00103	1	09/18/2019 04:06	<a href="#">WG1347343</a>
Toluene	U		0.00128	0.00500	0.00514	1	09/18/2019 04:06	<a href="#">WG1347343</a>
Ethylbenzene	U		0.000544	0.00250	0.00257	1	09/18/2019 04:06	<a href="#">WG1347343</a>
Total Xylenes	U	<u>J4</u>	0.00491	0.00650	0.00668	1	09/18/2019 04:06	<a href="#">WG1347343</a>
(S) Toluene-d8	116				75.0-131		09/18/2019 04:06	<a href="#">WG1347343</a>
(S) 4-Bromofluorobenzene	96.3				67.0-138		09/18/2019 04:06	<a href="#">WG1347343</a>
(S) 1,2-Dichloroethane-d4	109				70.0-130		09/18/2019 04:06	<a href="#">WG1347343</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	251		16.5	4.00	41.1	10	09/16/2019 01:48	<a href="#">WG1345980</a>
C28-C40 Oil Range	455		2.81	4.00	41.1	10	09/16/2019 01:48	<a href="#">WG1345980</a>
(S) o-Terphenyl	49.5				18.0-148		09/16/2019 01:48	<a href="#">WG1345980</a>



BH-3 (2'-3')

## SAMPLE RESULTS - 12

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 14:10

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.2		1	09/19/2019 18:47	<a href="#">WG1348339</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	23.5	<a href="#">B P1</a>	0.810	10.0	10.2	1	09/17/2019 00:03	<a href="#">WG1346419</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0221	0.100	0.102	1	09/18/2019 23:03	<a href="#">WG1347755</a>
(S) a,a,a-Trifluorotoluene(FID)	93.3				77.0-120		09/18/2019 23:03	<a href="#">WG1347755</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000407	0.00100	0.00102	1	09/18/2019 04:27	<a href="#">WG1347343</a>
Toluene	U		0.00127	0.00500	0.00509	1	09/18/2019 04:27	<a href="#">WG1347343</a>
Ethylbenzene	U		0.000540	0.00250	0.00255	1	09/18/2019 04:27	<a href="#">WG1347343</a>
Total Xylenes	U	<a href="#">J4</a>	0.00487	0.00650	0.00662	1	09/18/2019 04:27	<a href="#">WG1347343</a>
(S) Toluene-d8	116				75.0-131		09/18/2019 04:27	<a href="#">WG1347343</a>
(S) 4-Bromofluorobenzene	101				67.0-138		09/18/2019 04:27	<a href="#">WG1347343</a>
(S) 1,2-Dichloroethane-d4	109				70.0-130		09/18/2019 04:27	<a href="#">WG1347343</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	418		65.6	4.00	163	40	09/16/2019 02:01	<a href="#">WG1345980</a>
C28-C40 Oil Range	953		11.2	4.00	163	40	09/16/2019 02:01	<a href="#">WG1345980</a>
(S) o-Terphenyl	109	<a href="#">J7</a>			18.0-148		09/16/2019 02:01	<a href="#">WG1345980</a>

BH-3 (4'-5')

## SAMPLE RESULTS - 13

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 14:20

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.7		1	09/19/2019 18:47	<a href="#">WG1348339</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	23.9	<u>B</u>	0.823	10.0	10.3	1	09/17/2019 00:22	<a href="#">WG1346419</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.100	0.103	1	09/18/2019 15:05	<a href="#">WG1347802</a>
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		09/18/2019 15:05	<a href="#">WG1347802</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000414	0.00100	0.00103	1	09/18/2019 06:30	<a href="#">WG1347349</a>
Toluene	U		0.00129	0.00500	0.00517	1	09/18/2019 06:30	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000548	0.00250	0.00259	1	09/18/2019 06:30	<a href="#">WG1347349</a>
Total Xylenes	U		0.00494	0.00650	0.00672	1	09/18/2019 06:30	<a href="#">WG1347349</a>
(S) Toluene-d8	112				75.0-131		09/18/2019 06:30	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	84.5				67.0-138		09/18/2019 06:30	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	101				70.0-130		09/18/2019 06:30	<a href="#">WG1347349</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	189		33.3	4.00	82.8	20	09/16/2019 02:15	<a href="#">WG1345980</a>
C28-C40 Oil Range	524		5.67	4.00	82.8	20	09/16/2019 02:15	<a href="#">WG1345980</a>
(S) o-Terphenyl	79.5	<u>J7</u>			18.0-148		09/16/2019 02:15	<a href="#">WG1345980</a>

BH-3 (6'-7')

## SAMPLE RESULTS - 14

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 14:30

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.4		1	09/19/2019 18:47	<a href="#">WG1348339</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	71.6		0.833	10.0	10.5	1	09/17/2019 00:31	<a href="#">WG1346419</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0227	0.100	0.105	1	09/18/2019 15:25	<a href="#">WG1347802</a>
(S) a,a,a-Trifluorotoluene(FID)	99.3				77.0-120		09/18/2019 15:25	<a href="#">WG1347802</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000532	J	0.000419	0.00100	0.00105	1	09/18/2019 06:48	<a href="#">WG1347349</a>
Toluene	U		0.00131	0.00500	0.00524	1	09/18/2019 06:48	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000555	0.00250	0.00262	1	09/18/2019 06:48	<a href="#">WG1347349</a>
Total Xylenes	U		0.00501	0.00650	0.00681	1	09/18/2019 06:48	<a href="#">WG1347349</a>
(S) Toluene-d8	109				75.0-131		09/18/2019 06:48	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	85.7				67.0-138		09/18/2019 06:48	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	98.9				70.0-130		09/18/2019 06:48	<a href="#">WG1347349</a>

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	36.1	J	16.9	4.00	41.9	10	09/16/2019 13:42	<a href="#">WG1345980</a>
C28-C40 Oil Range	103		2.87	4.00	41.9	10	09/16/2019 13:42	<a href="#">WG1345980</a>
(S) o-Terphenyl	71.4				18.0-148		09/16/2019 13:42	<a href="#">WG1345980</a>

## Sample Narrative:

L1139267-14 WG1345980: Cannot run at lower dilution due to viscosity of extract

BH-3 (9'-10')

## SAMPLE RESULTS - 15

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 14:40

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	09/19/2019 18:47	<a href="#">WG1348339</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	260		0.890	10.0	11.2	1	09/17/2019 01:00	<a href="#">WG1346419</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U	<a href="#">J3</a>	0.0243	0.100	0.112	1	09/18/2019 15:45	<a href="#">WG1347802</a>
(S) a,a,a-Trifluorotoluene(FID)	102				77.0-120		09/18/2019 15:45	<a href="#">WG1347802</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000558	<a href="#">J</a>	0.000448	0.00100	0.00112	1	09/18/2019 07:07	<a href="#">WG1347349</a>
Toluene	U		0.00140	0.00500	0.00559	1	09/18/2019 07:07	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000593	0.00250	0.00280	1	09/18/2019 07:07	<a href="#">WG1347349</a>
Total Xylenes	U		0.00535	0.00650	0.00727	1	09/18/2019 07:07	<a href="#">WG1347349</a>
(S) Toluene-d8	107				75.0-131		09/18/2019 07:07	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	82.7				67.0-138		09/18/2019 07:07	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	96.8				70.0-130		09/18/2019 07:07	<a href="#">WG1347349</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	42.5		1.80	4.00	4.48	1	09/16/2019 00:04	<a href="#">WG1345980</a>
C28-C40 Oil Range	104		0.307	4.00	4.48	1	09/16/2019 00:04	<a href="#">WG1345980</a>
(S) o-Terphenyl	67.4				18.0-148		09/16/2019 00:04	<a href="#">WG1345980</a>

BH-4 (0'-1')

## SAMPLE RESULTS - 16

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 15:10

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.4		1	09/19/2019 18:47	<a href="#">WG1348339</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	124		0.852	10.0	10.7	1	09/17/2019 01:09	<a href="#">WG1346419</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0232	0.100	0.107	1	09/18/2019 16:06	<a href="#">WG1347802</a>
(S) a,a,a-Trifluorotoluene(FID)	97.9				77.0-120		09/18/2019 16:06	<a href="#">WG1347802</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00120		0.000428	0.00100	0.00107	1	09/18/2019 07:25	<a href="#">WG1347349</a>
Toluene	U		0.00134	0.00500	0.00536	1	09/18/2019 07:25	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000568	0.00250	0.00268	1	09/18/2019 07:25	<a href="#">WG1347349</a>
Total Xylenes	U		0.00512	0.00650	0.00696	1	09/18/2019 07:25	<a href="#">WG1347349</a>
(S) Toluene-d8	106				75.0-131		09/18/2019 07:25	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	83.8				67.0-138		09/18/2019 07:25	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	95.8				70.0-130		09/18/2019 07:25	<a href="#">WG1347349</a>

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1600		17.2	4.00	42.8	10	09/16/2019 00:30	<a href="#">WG1345980</a>
C28-C40 Oil Range	1370		2.93	4.00	42.8	10	09/16/2019 00:30	<a href="#">WG1345980</a>
(S) o-Terphenyl	187	<u>J1</u>			18.0-148		09/16/2019 00:30	<a href="#">WG1345980</a>

## Sample Narrative:

L1139267-16 WG1345980: Surrogate failure due to matrix interference

BH-4 (2'-3')

## SAMPLE RESULTS - 17

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 15:20

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.5		1	09/19/2019 18:47	<a href="#">WG1348339</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	208		0.807	10.0	10.2	1	09/17/2019 01:19	<a href="#">WG1346419</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.100	0.102	1	09/18/2019 16:27	<a href="#">WG1347802</a>
(S) a,a,a-Trifluorotoluene(FID)	95.3				77.0-120		09/18/2019 16:27	<a href="#">WG1347802</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00152		0.000406	0.00100	0.00102	1	09/18/2019 07:44	<a href="#">WG1347349</a>
Toluene	U		0.00127	0.00500	0.00508	1	09/18/2019 07:44	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000538	0.00250	0.00254	1	09/18/2019 07:44	<a href="#">WG1347349</a>
Total Xylenes	U		0.00485	0.00650	0.00660	1	09/18/2019 07:44	<a href="#">WG1347349</a>
(S) Toluene-d8	107				75.0-131		09/18/2019 07:44	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	83.8				67.0-138		09/18/2019 07:44	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	97.2				70.0-130		09/18/2019 07:44	<a href="#">WG1347349</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3380		81.7	4.00	203	50	09/21/2019 13:22	<a href="#">WG1345980</a>
C28-C40 Oil Range	2680		13.9	4.00	203	50	09/21/2019 13:22	<a href="#">WG1345980</a>
(S) o-Terphenyl	0.000	<a href="#">J7</a>			18.0-148		09/21/2019 13:22	<a href="#">WG1345980</a>

BH-4 (4'-5')

## SAMPLE RESULTS - 18

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 15:30

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.6		1	09/19/2019 18:47	<a href="#">WG1348339</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	57.9		0.815	10.0	10.2	1	09/17/2019 01:28	<a href="#">WG1346419</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0222	0.100	0.102	1	09/18/2019 16:47	<a href="#">WG1347802</a>
(S) a,a,a-Trifluorotoluene(FID)	100				77.0-120		09/18/2019 16:47	<a href="#">WG1347802</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00139		0.000410	0.00100	0.00102	1	09/18/2019 08:02	<a href="#">WG1347349</a>
Toluene	U		0.00128	0.00500	0.00512	1	09/18/2019 08:02	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000543	0.00250	0.00256	1	09/18/2019 08:02	<a href="#">WG1347349</a>
Total Xylenes	U		0.00490	0.00650	0.00666	1	09/18/2019 08:02	<a href="#">WG1347349</a>
(S) Toluene-d8	102				75.0-131		09/18/2019 08:02	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	89.7				67.0-138		09/18/2019 08:02	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	105				70.0-130		09/18/2019 08:02	<a href="#">WG1347349</a>

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	200		1.65	4.00	4.10	1	09/15/2019 23:38	<a href="#">WG1345980</a>
C28-C40 Oil Range	161		1.40	4.00	20.5	5	09/16/2019 16:49	<a href="#">WG1345980</a>
(S) o-Terphenyl	75.6				18.0-148		09/15/2019 23:38	<a href="#">WG1345980</a>
(S) o-Terphenyl	0.000	<a href="#">J2</a>			18.0-148		09/16/2019 16:49	<a href="#">WG1345980</a>

## Sample Narrative:

L1139267-18 WG1345980: Surrogate failure due to matrix interference



BH-4 (6'-7')

## SAMPLE RESULTS - 19

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 15:40

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.0		1	09/19/2019 18:47	<a href="#">WG1348339</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	145		0.846	10.0	10.6	1	09/17/2019 01:38	<a href="#">WG1346419</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0231	0.100	0.106	1	09/18/2019 17:08	<a href="#">WG1347802</a>
(S) a,a,a-Trifluorotoluene(FID)	104				77.0-120		09/18/2019 17:08	<a href="#">WG1347802</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000795	J	0.000426	0.00100	0.00106	1	09/18/2019 08:21	<a href="#">WG1347349</a>
Toluene	U		0.00133	0.00500	0.00532	1	09/18/2019 08:21	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000564	0.00250	0.00266	1	09/18/2019 08:21	<a href="#">WG1347349</a>
Total Xylenes	U		0.00509	0.00650	0.00692	1	09/18/2019 08:21	<a href="#">WG1347349</a>
(S) Toluene-d8	105				75.0-131		09/18/2019 08:21	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	85.9				67.0-138		09/18/2019 08:21	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	101				70.0-130		09/18/2019 08:21	<a href="#">WG1347349</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	8.70		1.71	4.00	4.26	1	09/15/2019 22:58	<a href="#">WG1345980</a>
C28-C40 Oil Range	10.4		0.292	4.00	4.26	1	09/15/2019 22:58	<a href="#">WG1345980</a>
(S) o-Terphenyl	58.2				18.0-148		09/15/2019 22:58	<a href="#">WG1345980</a>

BH-4 (9'-10')

## SAMPLE RESULTS - 20

ONE LAB. NATIONWIDE.



Collected date/time: 09/10/19 16:00

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.7		1	09/19/2019 18:47	<a href="#">WG1348339</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	201		0.876	10.0	11.0	1	09/17/2019 01:47	<a href="#">WG1346419</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0239	0.100	0.110	1	09/18/2019 17:28	<a href="#">WG1347802</a>
(S) a,a,a-Trifluorotoluene(FID)	103				77.0-120		09/18/2019 17:28	<a href="#">WG1347802</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000765	J	0.000441	0.00100	0.00110	1	09/18/2019 08:40	<a href="#">WG1347349</a>
Toluene	U		0.00138	0.00500	0.00551	1	09/18/2019 08:40	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000584	0.00250	0.00276	1	09/18/2019 08:40	<a href="#">WG1347349</a>
Total Xylenes	U		0.00527	0.00650	0.00716	1	09/18/2019 08:40	<a href="#">WG1347349</a>
(S) Toluene-d8	103				75.0-131		09/18/2019 08:40	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	87.5				67.0-138		09/18/2019 08:40	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	98.4				70.0-130		09/18/2019 08:40	<a href="#">WG1347349</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	7.95		1.77	4.00	4.41	1	09/15/2019 22:45	<a href="#">WG1345980</a>
C28-C40 Oil Range	10.8		0.302	4.00	4.41	1	09/15/2019 22:45	<a href="#">WG1345980</a>
(S) o-Terphenyl	65.9				18.0-148		09/15/2019 22:45	<a href="#">WG1345980</a>

BH-5 (0'-1')

## SAMPLE RESULTS - 21

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 10:30

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.5		1	09/19/2019 18:47	<a href="#">WG1348339</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	172		0.807	10.0	10.2	1	09/17/2019 21:20	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0222	0.100	0.103	1.01	09/18/2019 17:49	<a href="#">WG1347802</a>
(S) a,a,a-Trifluorotoluene(FID)	102				77.0-120		09/18/2019 17:49	<a href="#">WG1347802</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000406	0.00100	0.00102	1	09/18/2019 08:58	<a href="#">WG1347349</a>
Toluene	U		0.00127	0.00500	0.00508	1	09/18/2019 08:58	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000538	0.00250	0.00254	1	09/18/2019 08:58	<a href="#">WG1347349</a>
Total Xylenes	U		0.00485	0.00650	0.00660	1	09/18/2019 08:58	<a href="#">WG1347349</a>
(S) Toluene-d8	105				75.0-131		09/18/2019 08:58	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	86.9				67.0-138		09/18/2019 08:58	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	97.0				70.0-130		09/18/2019 08:58	<a href="#">WG1347349</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	27.0		1.63	4.00	4.06	1	09/15/2019 23:51	<a href="#">WG1345980</a>
C28-C40 Oil Range	77.3		0.278	4.00	4.06	1	09/15/2019 23:51	<a href="#">WG1345980</a>
(S) o-Terphenyl	69.3				18.0-148		09/15/2019 23:51	<a href="#">WG1345980</a>

BH-5 (2'-3')

## SAMPLE RESULTS - 22

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 10:40

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.4		1	09/19/2019 18:23	<a href="#">WG1348340</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	133		0.808	10.0	10.2	1	09/17/2019 21:38	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.100	0.102	1	09/18/2019 18:09	<a href="#">WG1347802</a>
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		09/18/2019 18:09	<a href="#">WG1347802</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00115		0.000406	0.00100	0.00102	1	09/18/2019 09:17	<a href="#">WG1347349</a>
Toluene	U		0.00127	0.00500	0.00508	1	09/18/2019 09:17	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000538	0.00250	0.00254	1	09/18/2019 09:17	<a href="#">WG1347349</a>
Total Xylenes	U		0.00486	0.00650	0.00660	1	09/18/2019 09:17	<a href="#">WG1347349</a>
(S) Toluene-d8	105				75.0-131		09/18/2019 09:17	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	82.5				67.0-138		09/18/2019 09:17	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	101				70.0-130		09/18/2019 09:17	<a href="#">WG1347349</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1650		81.8	4.00	203	50	09/16/2019 02:28	<a href="#">WG1345980</a>
C28-C40 Oil Range	4890		13.9	4.00	203	50	09/16/2019 02:28	<a href="#">WG1345980</a>
(S) o-Terphenyl	0.000	<a href="#">J7</a>			18.0-148		09/16/2019 02:28	<a href="#">WG1345980</a>

BH-5 (4'-5')

## SAMPLE RESULTS - 23

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 10:50

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.5		1	09/19/2019 18:23	<a href="#">WG1348340</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	70.1		0.807	10.0	10.2	1	09/17/2019 21:48	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.100	0.102	1	09/18/2019 18:29	<a href="#">WG1347802</a>
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		09/18/2019 18:29	<a href="#">WG1347802</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000660	J	0.000406	0.00100	0.00102	1	09/18/2019 09:36	<a href="#">WG1347349</a>
Toluene	U		0.00127	0.00500	0.00508	1	09/18/2019 09:36	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000538	0.00250	0.00254	1	09/18/2019 09:36	<a href="#">WG1347349</a>
Total Xylenes	U		0.00485	0.00650	0.00660	1	09/18/2019 09:36	<a href="#">WG1347349</a>
(S) Toluene-d8	106				75.0-131		09/18/2019 09:36	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	84.4				67.0-138		09/18/2019 09:36	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	96.2				70.0-130		09/18/2019 09:36	<a href="#">WG1347349</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	246		81.7	4.00	203	50	09/16/2019 02:41	<a href="#">WG1345980</a>
C28-C40 Oil Range	748		13.9	4.00	203	50	09/16/2019 02:41	<a href="#">WG1345980</a>
(S) o-Terphenyl	0.000	J7			18.0-148		09/16/2019 02:41	<a href="#">WG1345980</a>

BH-5 (6'-7')

## SAMPLE RESULTS - 24

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 11:00

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.0		1	09/19/2019 18:23	<a href="#">WG1348340</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	86.9		0.893	10.0	11.2	1	09/17/2019 21:57	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0244	0.100	0.112	1	09/18/2019 18:50	<a href="#">WG1347802</a>
(S) a,a,a-Trifluorotoluene(FID)	102				77.0-120		09/18/2019 18:50	<a href="#">WG1347802</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00111	J	0.000449	0.00100	0.00112	1	09/18/2019 09:55	<a href="#">WG1347349</a>
Toluene	U		0.00140	0.00500	0.00562	1	09/18/2019 09:55	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000595	0.00250	0.00281	1	09/18/2019 09:55	<a href="#">WG1347349</a>
Total Xylenes	U		0.00537	0.00650	0.00730	1	09/18/2019 09:55	<a href="#">WG1347349</a>
(S) Toluene-d8	105				75.0-131		09/18/2019 09:55	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	85.2				67.0-138		09/18/2019 09:55	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	98.6				70.0-130		09/18/2019 09:55	<a href="#">WG1347349</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	50.8		9.04	4.00	22.5	5	09/16/2019 00:17	<a href="#">WG1345980</a>
C28-C40 Oil Range	143		1.54	4.00	22.5	5	09/16/2019 00:17	<a href="#">WG1345980</a>
(S) o-Terphenyl	81.6				18.0-148		09/16/2019 00:17	<a href="#">WG1345980</a>

BH-5 (9'-10')

## SAMPLE RESULTS - 25

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 11:10

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.1		1	09/19/2019 18:23	<a href="#">WG1348340</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	57.7		0.913	10.0	11.5	1	09/17/2019 22:07	<a href="#">WG1346738</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	170		0.623	0.100	2.87	25	09/20/2019 14:56	<a href="#">WG1348959</a>
(S) a,a,a-Trifluorotoluene(FID)	94.4				77.0-120		09/20/2019 14:56	<a href="#">WG1348959</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00163		0.000459	0.00100	0.00115	1	09/18/2019 10:13	<a href="#">WG1347349</a>
Toluene	0.00351	J	0.00144	0.00500	0.00574	1	09/18/2019 10:13	<a href="#">WG1347349</a>
Ethylbenzene	0.486		0.000609	0.00250	0.00287	1	09/18/2019 10:13	<a href="#">WG1347349</a>
Total Xylenes	0.210		0.00549	0.00650	0.00747	1	09/18/2019 10:13	<a href="#">WG1347349</a>
(S) Toluene-d8	107				75.0-131		09/18/2019 10:13	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	100				67.0-138		09/18/2019 10:13	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	99.3				70.0-130		09/18/2019 10:13	<a href="#">WG1347349</a>

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	747		18.5	4.00	45.9	10	09/16/2019 00:56	<a href="#">WG1345980</a>
C28-C40 Oil Range	561		3.15	4.00	45.9	10	09/16/2019 00:56	<a href="#">WG1345980</a>
(S) o-Terphenyl	93.8				18.0-148		09/16/2019 00:56	<a href="#">WG1345980</a>



BH-5 (12'-13')

## SAMPLE RESULTS - 26

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 11:20

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.9		1	09/19/2019 18:23	<a href="#">WG1348340</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	72.0		0.905	10.0	11.4	1	09/17/2019 22:16	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.598		0.0247	0.100	0.114	1	09/20/2019 14:08	<a href="#">WG1348959</a>
(S) a,a,a-Trifluorotoluene(FID)	95.4				77.0-120		09/20/2019 14:08	<a href="#">WG1348959</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000455	0.00100	0.00114	1	09/18/2019 10:32	<a href="#">WG1347349</a>
Toluene	U		0.00142	0.00500	0.00569	1	09/18/2019 10:32	<a href="#">WG1347349</a>
Ethylbenzene	0.00826		0.000603	0.00250	0.00285	1	09/18/2019 10:32	<a href="#">WG1347349</a>
Total Xylenes	U		0.00544	0.00650	0.00740	1	09/18/2019 10:32	<a href="#">WG1347349</a>
(S) Toluene-d8	105				75.0-131		09/18/2019 10:32	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	95.6				67.0-138		09/18/2019 10:32	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	104				70.0-130		09/18/2019 10:32	<a href="#">WG1347349</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	39.6		1.83	4.00	4.55	1	09/15/2019 23:12	<a href="#">WG1345980</a>
C28-C40 Oil Range	51.7		0.312	4.00	4.55	1	09/15/2019 23:12	<a href="#">WG1345980</a>
(S) o-Terphenyl	65.0				18.0-148		09/15/2019 23:12	<a href="#">WG1345980</a>

BH-5 (14'-15')

## SAMPLE RESULTS - 27

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 11:30

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.8		1	09/19/2019 18:23	<a href="#">WG1348340</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	95.0		0.905	10.0	11.4	1	09/17/2019 22:26	<a href="#">WG1346738</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.340		0.0247	0.100	0.114	1	09/20/2019 14:32	<a href="#">WG1348959</a>
(S) a,a,a-Trifluorotoluene(FID)	96.5				77.0-120		09/20/2019 14:32	<a href="#">WG1348959</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000455	0.00100	0.00114	1	09/18/2019 10:50	<a href="#">WG1347349</a>
Toluene	U		0.00142	0.00500	0.00569	1	09/18/2019 10:50	<a href="#">WG1347349</a>
Ethylbenzene	0.00186	J	0.000603	0.00250	0.00285	1	09/18/2019 10:50	<a href="#">WG1347349</a>
Total Xylenes	U		0.00544	0.00650	0.00740	1	09/18/2019 10:50	<a href="#">WG1347349</a>
(S) Toluene-d8	102				75.0-131		09/18/2019 10:50	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	91.6				67.0-138		09/18/2019 10:50	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	103				70.0-130		09/18/2019 10:50	<a href="#">WG1347349</a>

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	33.8		1.83	4.00	4.55	1	09/15/2019 23:25	<a href="#">WG1345980</a>
C28-C40 Oil Range	40.5		0.312	4.00	4.55	1	09/15/2019 23:25	<a href="#">WG1345980</a>
(S) o-Terphenyl	49.2				18.0-148		09/15/2019 23:25	<a href="#">WG1345980</a>

BH-5 (19'-20')

## SAMPLE RESULTS - 28

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 11:50

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.2		1	09/19/2019 18:23	<a href="#">WG1348340</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	160		0.891	10.0	11.2	1	09/17/2019 22:54	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0243	0.100	0.112	1	09/19/2019 19:45	<a href="#">WG1348619</a>
(S) a,a,a-Trifluorotoluene(FID)	94.7				77.0-120		09/19/2019 19:45	<a href="#">WG1348619</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000448	0.00100	0.00112	1	09/18/2019 11:08	<a href="#">WG1347349</a>
Toluene	U		0.00140	0.00500	0.00560	1	09/18/2019 11:08	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000594	0.00250	0.00280	1	09/18/2019 11:08	<a href="#">WG1347349</a>
Total Xylenes	U		0.00536	0.00650	0.00729	1	09/18/2019 11:08	<a href="#">WG1347349</a>
(S) Toluene-d8	103				75.0-131		09/18/2019 11:08	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	85.9				67.0-138		09/18/2019 11:08	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	103				70.0-130		09/18/2019 11:08	<a href="#">WG1347349</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.80	4.00	4.48	1	09/17/2019 19:11	<a href="#">WG1346816</a>
C28-C40 Oil Range	1.55	J	0.307	4.00	4.48	1	09/17/2019 19:11	<a href="#">WG1346816</a>
(S) o-Terphenyl	52.1				18.0-148		09/17/2019 19:11	<a href="#">WG1346816</a>

BH-6 (0'-1')

## SAMPLE RESULTS - 29

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 12:00

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.8		1	09/19/2019 18:23	<a href="#">WG1348340</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	40.9		0.906	10.0	11.4	1	09/17/2019 23:04	<a href="#">WG1346738</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0405	<a href="#">B J</a>	0.0247	0.100	0.114	1	09/19/2019 20:05	<a href="#">WG1348619</a>
(S) a,a,a-Trifluorotoluene(FID)	94.9				77.0-120		09/19/2019 20:05	<a href="#">WG1348619</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000499	<a href="#">J</a>	0.000456	0.00100	0.00114	1	09/18/2019 11:27	<a href="#">WG1347349</a>
Toluene	U		0.00142	0.00500	0.00570	1	09/18/2019 11:27	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000604	0.00250	0.00285	1	09/18/2019 11:27	<a href="#">WG1347349</a>
Total Xylenes	U		0.00544	0.00650	0.00740	1	09/18/2019 11:27	<a href="#">WG1347349</a>
(S) Toluene-d8	108				75.0-131		09/18/2019 11:27	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	88.9				67.0-138		09/18/2019 11:27	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	101				70.0-130		09/18/2019 11:27	<a href="#">WG1347349</a>

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	30.4		1.83	4.00	4.56	1	09/17/2019 20:29	<a href="#">WG1346816</a>
C28-C40 Oil Range	81.3		0.312	4.00	4.56	1	09/17/2019 20:29	<a href="#">WG1346816</a>
(S) o-Terphenyl	90.1				18.0-148		09/17/2019 20:29	<a href="#">WG1346816</a>

BH-6 (2'-3')

## SAMPLE RESULTS - 30

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 12:10

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.9		1	09/19/2019 18:23	<a href="#">WG1348340</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	42.3		0.847	10.0	10.7	1	09/17/2019 23:33	<a href="#">WG1346738</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0452	<a href="#">B J</a>	0.0231	0.100	0.107	1	09/19/2019 20:26	<a href="#">WG1348619</a>
(S) a,a,a-Trifluorotoluene(FID)	94.5				77.0-120		09/19/2019 20:26	<a href="#">WG1348619</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000518	<a href="#">J</a>	0.000426	0.00100	0.00107	1	09/18/2019 11:46	<a href="#">WG1347349</a>
Toluene	U		0.00133	0.00500	0.00533	1	09/18/2019 11:46	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000564	0.00250	0.00266	1	09/18/2019 11:46	<a href="#">WG1347349</a>
Total Xylenes	U		0.00509	0.00650	0.00692	1	09/18/2019 11:46	<a href="#">WG1347349</a>
(S) Toluene-d8	104				75.0-131		09/18/2019 11:46	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	87.9				67.0-138		09/18/2019 11:46	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	102				70.0-130		09/18/2019 11:46	<a href="#">WG1347349</a>

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	63.1		1.71	4.00	4.26	1	09/17/2019 20:55	<a href="#">WG1346816</a>
C28-C40 Oil Range	148		0.292	4.00	4.26	1	09/17/2019 20:55	<a href="#">WG1346816</a>
(S) o-Terphenyl	66.7				18.0-148		09/17/2019 20:55	<a href="#">WG1346816</a>

BH-6 (4'-5')

## SAMPLE RESULTS - 31

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 12:20

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.7		1	09/19/2019 18:23	<a href="#">WG1348340</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	20.4	B	0.805	10.0	10.1	1	09/17/2019 23:42	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.100	0.101	1	09/19/2019 20:46	<a href="#">WG1348619</a>
(S) a,a,a-Trifluorotoluene(FID)	94.5				77.0-120		09/19/2019 20:46	<a href="#">WG1348619</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000405	0.00100	0.00101	1	09/18/2019 12:04	<a href="#">WG1347349</a>
Toluene	U		0.00127	0.00500	0.00506	1	09/18/2019 12:04	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000537	0.00250	0.00253	1	09/18/2019 12:04	<a href="#">WG1347349</a>
Total Xylenes	U		0.00484	0.00650	0.00658	1	09/18/2019 12:04	<a href="#">WG1347349</a>
(S) Toluene-d8	107				75.0-131		09/18/2019 12:04	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	85.6				67.0-138		09/18/2019 12:04	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	101				70.0-130		09/18/2019 12:04	<a href="#">WG1347349</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.87	B J J3	1.63	4.00	4.05	1	09/17/2019 19:37	<a href="#">WG1346816</a>
C28-C40 Oil Range	2.44	J	0.277	4.00	4.05	1	09/17/2019 19:37	<a href="#">WG1346816</a>
(S) o-Terphenyl	65.3				18.0-148		09/17/2019 19:37	<a href="#">WG1346816</a>

BH-6 (6'-7')

## SAMPLE RESULTS - 32

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 12:30

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	09/19/2019 18:09	<a href="#">WG1348341</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	94.9		0.822	10.0	10.3	1	09/17/2019 23:52	<a href="#">WG1346738</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.100	0.103	1	09/19/2019 21:07	<a href="#">WG1348619</a>
(S) a,a,a-Trifluorotoluene(FID)	94.9				77.0-120		09/19/2019 21:07	<a href="#">WG1348619</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000435	J	0.000413	0.00100	0.00103	1	09/18/2019 12:23	<a href="#">WG1347349</a>
Toluene	U		0.00129	0.00500	0.00517	1	09/18/2019 12:23	<a href="#">WG1347349</a>
Ethylbenzene	U		0.000548	0.00250	0.00258	1	09/18/2019 12:23	<a href="#">WG1347349</a>
Total Xylenes	U		0.00494	0.00650	0.00672	1	09/18/2019 12:23	<a href="#">WG1347349</a>
(S) Toluene-d8	108				75.0-131		09/18/2019 12:23	<a href="#">WG1347349</a>
(S) 4-Bromofluorobenzene	84.5				67.0-138		09/18/2019 12:23	<a href="#">WG1347349</a>
(S) 1,2-Dichloroethane-d4	102				70.0-130		09/18/2019 12:23	<a href="#">WG1347349</a>

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.78	B J	1.66	4.00	4.13	1	09/17/2019 19:24	<a href="#">WG1346816</a>
C28-C40 Oil Range	3.04	J	0.283	4.00	4.13	1	09/17/2019 19:24	<a href="#">WG1346816</a>
(S) o-Terphenyl	87.5				18.0-148		09/17/2019 19:24	<a href="#">WG1346816</a>



BH-7 (0'-1')

## SAMPLE RESULTS - 33

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 12:50

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.9		1	09/19/2019 18:09	<a href="#">WG1348341</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	3.75	<a href="#">B J</a>	0.829	10.0	10.4	1	09/18/2019 00:01	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0226	0.100	0.104	1	09/19/2019 21:27	<a href="#">WG1348619</a>
(S) a,a,a-Trifluorotoluene(FID)	94.5				77.0-120		09/19/2019 21:27	<a href="#">WG1348619</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000417	0.00100	0.00104	1	09/18/2019 11:04	<a href="#">WG1347795</a>
Toluene	U		0.00130	0.00500	0.00521	1	09/18/2019 11:04	<a href="#">WG1347795</a>
Ethylbenzene	U		0.000553	0.00250	0.00261	1	09/18/2019 11:04	<a href="#">WG1347795</a>
Total Xylenes	U		0.00498	0.00650	0.00678	1	09/18/2019 11:04	<a href="#">WG1347795</a>
(S) Toluene-d8	116				75.0-131		09/18/2019 11:04	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	105				67.0-138		09/18/2019 11:04	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	106				70.0-130		09/18/2019 11:04	<a href="#">WG1347795</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	7.55	<a href="#">B</a>	1.68	4.00	4.17	1	09/17/2019 21:08	<a href="#">WG1346816</a>
C28-C40 Oil Range	46.3		0.286	4.00	4.17	1	09/17/2019 21:08	<a href="#">WG1346816</a>
(S) o-Terphenyl	80.9				18.0-148		09/17/2019 21:08	<a href="#">WG1346816</a>

BH-7 (2'-3')

## SAMPLE RESULTS - 34

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 13:00

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.9		1	09/19/2019 18:09	<a href="#">WG1348341</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	15.4	<u>B</u>	0.804	10.0	10.1	1	09/18/2019 00:11	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0219	0.100	0.101	1	09/19/2019 21:47	<a href="#">WG1348619</a>
(S) a,a,a-Trifluorotoluene(FID)	95.0				77.0-120		09/19/2019 21:47	<a href="#">WG1348619</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000404	0.00100	0.00101	1	09/18/2019 11:25	<a href="#">WG1347795</a>
Toluene	U		0.00126	0.00500	0.00505	1	09/18/2019 11:25	<a href="#">WG1347795</a>
Ethylbenzene	U		0.000536	0.00250	0.00253	1	09/18/2019 11:25	<a href="#">WG1347795</a>
Total Xylenes	U		0.00483	0.00650	0.00657	1	09/18/2019 11:25	<a href="#">WG1347795</a>
(S) Toluene-d8	118				75.0-131		09/18/2019 11:25	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	98.4				67.0-138		09/18/2019 11:25	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	103				70.0-130		09/18/2019 11:25	<a href="#">WG1347795</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	5.75	<u>B</u>	1.63	4.00	4.04	1	09/17/2019 20:42	<a href="#">WG1346816</a>
C28-C40 Oil Range	30.5		0.277	4.00	4.04	1	09/17/2019 20:42	<a href="#">WG1346816</a>
(S) o-Terphenyl	67.0				18.0-148		09/17/2019 20:42	<a href="#">WG1346816</a>

BH-7 (4'-5')

## SAMPLE RESULTS - 35

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 13:10

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.2		1	09/19/2019 18:09	<a href="#">WG1348341</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	3.10	<a href="#">B J</a>	0.801	10.0	10.1	1	09/18/2019 00:20	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0463	<a href="#">B J</a>	0.0219	0.100	0.101	1	09/20/2019 05:55	<a href="#">WG1348624</a>
(S) a,a,a-Trifluorotoluene(FID)	103				77.0-120		09/20/2019 05:55	<a href="#">WG1348624</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000403	0.00100	0.00101	1	09/18/2019 11:45	<a href="#">WG1347795</a>
Toluene	U		0.00126	0.00500	0.00504	1	09/18/2019 11:45	<a href="#">WG1347795</a>
Ethylbenzene	U		0.000534	0.00250	0.00252	1	09/18/2019 11:45	<a href="#">WG1347795</a>
Total Xylenes	U		0.00482	0.00650	0.00655	1	09/18/2019 11:45	<a href="#">WG1347795</a>
(S) Toluene-d8	113				75.0-131		09/18/2019 11:45	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	95.6				67.0-138		09/18/2019 11:45	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	105				70.0-130		09/18/2019 11:45	<a href="#">WG1347795</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	16.3	<a href="#">B J</a>	8.11	4.00	20.2	5	09/17/2019 21:21	<a href="#">WG1346816</a>
C28-C40 Oil Range	95.5		1.38	4.00	20.2	5	09/17/2019 21:21	<a href="#">WG1346816</a>
(S) o-Terphenyl	72.6				18.0-148		09/17/2019 21:21	<a href="#">WG1346816</a>

BH-8 (0'-1')

## SAMPLE RESULTS - 36

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 13:30

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.4		1	09/19/2019 18:09	<a href="#">WG1348341</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	51.4		0.817	10.0	10.3	1	09/18/2019 00:49	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.30		0.0223	0.100	0.103	1	09/20/2019 06:17	<a href="#">WG1348624</a>
(S) a,a,a-Trifluorotoluene(FID)	102				77.0-120		09/20/2019 06:17	<a href="#">WG1348624</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000411	0.00100	0.00103	1	09/18/2019 12:05	<a href="#">WG1347795</a>
Toluene	U		0.00128	0.00500	0.00514	1	09/18/2019 12:05	<a href="#">WG1347795</a>
Ethylbenzene	0.0138		0.000544	0.00250	0.00257	1	09/18/2019 12:05	<a href="#">WG1347795</a>
Total Xylenes	0.155		0.00491	0.00650	0.00668	1	09/18/2019 12:05	<a href="#">WG1347795</a>
(S) Toluene-d8	109				75.0-131		09/18/2019 12:05	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	133				67.0-138		09/18/2019 12:05	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	106				70.0-130		09/18/2019 12:05	<a href="#">WG1347795</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3830		33.1	4.00	82.2	20	09/21/2019 12:56	<a href="#">WG1346816</a>
C28-C40 Oil Range	2350		5.63	4.00	82.2	20	09/21/2019 12:56	<a href="#">WG1346816</a>
(S) o-Terphenyl	0.000	<a href="#">J7</a>			18.0-148		09/21/2019 12:56	<a href="#">WG1346816</a>

BH-8 (2'-3')

## SAMPLE RESULTS - 37

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 13:40

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.6		1	09/19/2019 18:09	<a href="#">WG1348341</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	63.7		0.841	10.0	10.6	1	09/18/2019 00:58	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.51		0.0229	0.100	0.106	1	09/20/2019 06:40	<a href="#">WG1348624</a>
(S) a,a,a-Trifluorotoluene(FID)	102				77.0-120		09/20/2019 06:40	<a href="#">WG1348624</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000423	0.00100	0.00106	1	09/18/2019 12:26	<a href="#">WG1347795</a>
Toluene	U		0.00132	0.00500	0.00529	1	09/18/2019 12:26	<a href="#">WG1347795</a>
Ethylbenzene	0.0106		0.000560	0.00250	0.00264	1	09/18/2019 12:26	<a href="#">WG1347795</a>
Total Xylenes	0.121		0.00505	0.00650	0.00687	1	09/18/2019 12:26	<a href="#">WG1347795</a>
(S) Toluene-d8	112				75.0-131		09/18/2019 12:26	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	124				67.0-138		09/18/2019 12:26	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	108				70.0-130		09/18/2019 12:26	<a href="#">WG1347795</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	5520		85.1	4.00	211	50	09/21/2019 13:09	<a href="#">WG1346816</a>
C28-C40 Oil Range	3670		14.5	4.00	211	50	09/21/2019 13:09	<a href="#">WG1346816</a>
(S) o-Terphenyl	0.000	<a href="#">J7</a>			18.0-148		09/21/2019 13:09	<a href="#">WG1346816</a>

BH-8 (4'-5')

## SAMPLE RESULTS - 38

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 13:50

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.0		1	09/19/2019 18:09	<a href="#">WG1348341</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	57.6		0.820	10.0	10.3	1	09/18/2019 01:08	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.142	<u>B</u>	0.0224	0.100	0.103	1	09/20/2019 07:59	<a href="#">WG1348624</a>
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		09/20/2019 07:59	<a href="#">WG1348624</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000412	0.00100	0.00103	1	09/18/2019 12:46	<a href="#">WG1347795</a>
Toluene	U		0.00129	0.00500	0.00515	1	09/18/2019 12:46	<a href="#">WG1347795</a>
Ethylbenzene	0.000930	<u>J</u>	0.000546	0.00250	0.00258	1	09/18/2019 12:46	<a href="#">WG1347795</a>
Total Xylenes	0.0217		0.00493	0.00650	0.00670	1	09/18/2019 12:46	<a href="#">WG1347795</a>
(S) Toluene-d8	109				75.0-131		09/18/2019 12:46	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	106				67.0-138		09/18/2019 12:46	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	106				70.0-130		09/18/2019 12:46	<a href="#">WG1347795</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	336		83.0	4.00	206	50	09/17/2019 21:34	<a href="#">WG1346816</a>
C28-C40 Oil Range	1010		14.1	4.00	206	50	09/17/2019 21:34	<a href="#">WG1346816</a>
(S) o-Terphenyl	0.000	<u>J7</u>			18.0-148		09/17/2019 21:34	<a href="#">WG1346816</a>

BH-8 (6'-7')

## SAMPLE RESULTS - 39

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 14:00

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.6		1	09/19/2019 18:09	<a href="#">WG1348341</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	mg/kg		mg/kg	mg/kg	mg/kg			
Chloride	74.9		0.831	10.0	10.5	1	09/18/2019 01:17	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	mg/kg		mg/kg	mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	0.0564	<a href="#">B J</a>	0.0227	0.100	0.105	1	09/20/2019 08:22	<a href="#">WG1348624</a>
(S) a,a,a-Trifluorotoluene(FID)	103				77.0-120		09/20/2019 08:22	<a href="#">WG1348624</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	mg/kg		mg/kg	mg/kg	mg/kg			
Benzene	U		0.000418	0.00100	0.00105	1	09/18/2019 13:07	<a href="#">WG1347795</a>
Toluene	U		0.00131	0.00500	0.00523	1	09/18/2019 13:07	<a href="#">WG1347795</a>
Ethylbenzene	U		0.000554	0.00250	0.00261	1	09/18/2019 13:07	<a href="#">WG1347795</a>
Total Xylenes	U		0.00500	0.00650	0.00680	1	09/18/2019 13:07	<a href="#">WG1347795</a>
(S) Toluene-d8	109				75.0-131		09/18/2019 13:07	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	106				67.0-138		09/18/2019 13:07	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	106				70.0-130		09/18/2019 13:07	<a href="#">WG1347795</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	mg/kg		mg/kg	mg/kg	mg/kg			
C10-C28 Diesel Range	408		84.2	4.00	209	50	09/17/2019 21:47	<a href="#">WG1346816</a>
C28-C40 Oil Range	1030		14.3	4.00	209	50	09/17/2019 21:47	<a href="#">WG1346816</a>
(S) o-Terphenyl	0.000	<a href="#">J7</a>			18.0-148		09/17/2019 21:47	<a href="#">WG1346816</a>



BH-8 (9'-10')

## SAMPLE RESULTS - 40

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 14:10

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.0		1	09/19/2019 18:09	<a href="#">WG1348341</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	214		0.837	10.0	10.5	1	09/18/2019 01:27	<a href="#">WG1346738</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0498	<b>B J</b>	0.0228	0.100	0.105	1	09/20/2019 08:44	<a href="#">WG1348624</a>
(S) a,a,a-Trifluorotoluene(FID)	104				77.0-120		09/20/2019 08:44	<a href="#">WG1348624</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000421	0.00100	0.00105	1	09/18/2019 13:28	<a href="#">WG1347795</a>
Toluene	U		0.00132	0.00500	0.00526	1	09/18/2019 13:28	<a href="#">WG1347795</a>
Ethylbenzene	U		0.000558	0.00250	0.00263	1	09/18/2019 13:28	<a href="#">WG1347795</a>
Total Xylenes	U		0.00503	0.00650	0.00684	1	09/18/2019 13:28	<a href="#">WG1347795</a>
(S) Toluene-d8	115				75.0-131		09/18/2019 13:28	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	105				67.0-138		09/18/2019 13:28	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	105				70.0-130		09/18/2019 13:28	<a href="#">WG1347795</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	10.6		1.70	4.00	4.21	1	09/18/2019 22:06	<a href="#">WG1347218</a>
C28-C40 Oil Range	9.11		0.288	4.00	4.21	1	09/18/2019 22:06	<a href="#">WG1347218</a>
(S) o-Terphenyl	112				18.0-148		09/18/2019 22:06	<a href="#">WG1347218</a>

BH-9 (0'-1')

## SAMPLE RESULTS - 41

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 14:40

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.6		1	09/19/2019 18:09	<a href="#">WG1348341</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	22.4	<u>B</u>	0.798	10.0	10.0	1	09/18/2019 21:17	<a href="#">WG1347692</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0507	<u>B J</u>	0.0218	0.100	0.100	1	09/20/2019 09:48	<a href="#">WG1348624</a>
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		09/20/2019 09:48	<a href="#">WG1348624</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000402	0.00100	0.00100	1	09/18/2019 13:49	<a href="#">WG1347795</a>
Toluene	U		0.00125	0.00500	0.00502	1	09/18/2019 13:49	<a href="#">WG1347795</a>
Ethylbenzene	U		0.000532	0.00250	0.00251	1	09/18/2019 13:49	<a href="#">WG1347795</a>
Total Xylenes	U		0.00480	0.00650	0.00653	1	09/18/2019 13:49	<a href="#">WG1347795</a>
(S) Toluene-d8	119				75.0-131		09/18/2019 13:49	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	97.6				67.0-138		09/18/2019 13:49	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	98.6				70.0-130		09/18/2019 13:49	<a href="#">WG1347795</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	155		32.3	4.00	80.3	20	09/18/2019 23:52	<a href="#">WG1347218</a>
C28-C40 Oil Range	452		5.50	4.00	80.3	20	09/18/2019 23:52	<a href="#">WG1347218</a>
(S) o-Terphenyl	121	<u>J7</u>			18.0-148		09/18/2019 23:52	<a href="#">WG1347218</a>

BH-9 (2'-3')

## SAMPLE RESULTS - 42

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 14:50

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.1		1	09/19/2019 13:54	<a href="#">WG1348343</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	4.32	<a href="#">B J</a>	0.810	10.0	10.2	1	09/18/2019 10:42	<a href="#">WG1347474</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0508	<a href="#">B J</a>	0.0221	0.100	0.102	1	09/20/2019 10:11	<a href="#">WG1348624</a>
(S) a,a,a-Trifluorotoluene(FID)	103				77.0-120		09/20/2019 10:11	<a href="#">WG1348624</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000408	0.00100	0.00102	1	09/18/2019 14:10	<a href="#">WG1347795</a>
Toluene	U		0.00127	0.00500	0.00510	1	09/18/2019 14:10	<a href="#">WG1347795</a>
Ethylbenzene	U		0.000540	0.00250	0.00255	1	09/18/2019 14:10	<a href="#">WG1347795</a>
Total Xylenes	U		0.00487	0.00650	0.00662	1	09/18/2019 14:10	<a href="#">WG1347795</a>
(S) Toluene-d8	113				75.0-131		09/18/2019 14:10	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	99.6				67.0-138		09/18/2019 14:10	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	105				70.0-130		09/18/2019 14:10	<a href="#">WG1347795</a>

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	326		32.8	4.00	81.5	20	09/19/2019 00:06	<a href="#">WG1347218</a>
C28-C40 Oil Range	795		5.58	4.00	81.5	20	09/19/2019 00:06	<a href="#">WG1347218</a>
(S) o-Terphenyl	133	<a href="#">J7</a>			18.0-148		09/19/2019 00:06	<a href="#">WG1347218</a>

BH-10 (0'-1')

## SAMPLE RESULTS - 43

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 15:00

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.9		1	09/19/2019 13:54	<a href="#">WG1348343</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	4.00	<a href="#">B J P1</a>	0.904	10.0	11.4	1	09/18/2019 11:10	<a href="#">WG1347474</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0247	0.100	0.114	1	09/20/2019 01:02	<a href="#">WG1348819</a>
(S) a,a,a-Trifluorotoluene(FID)	106				77.0-120		09/20/2019 01:02	<a href="#">WG1348819</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000455	0.00100	0.00114	1	09/18/2019 14:31	<a href="#">WG1347795</a>
Toluene	U		0.00142	0.00500	0.00569	1	09/18/2019 14:31	<a href="#">WG1347795</a>
Ethylbenzene	U		0.000603	0.00250	0.00284	1	09/18/2019 14:31	<a href="#">WG1347795</a>
Total Xylenes	U		0.00544	0.00650	0.00739	1	09/18/2019 14:31	<a href="#">WG1347795</a>
(S) Toluene-d8	114				75.0-131		09/18/2019 14:31	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	103				67.0-138		09/18/2019 14:31	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	103				70.0-130		09/18/2019 14:31	<a href="#">WG1347795</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	24.7		1.83	4.00	4.55	1	09/18/2019 22:59	<a href="#">WG1347218</a>
C28-C40 Oil Range	32.0		0.312	4.00	4.55	1	09/18/2019 22:59	<a href="#">WG1347218</a>
(S) o-Terphenyl	91.4				18.0-148		09/18/2019 22:59	<a href="#">WG1347218</a>

BH-10 (2'-3')

## SAMPLE RESULTS - 44

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 15:10

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.3		1	09/19/2019 13:54	<a href="#">WG1348343</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	3.97	<u>B J</u>	0.978	10.0	12.3	1	09/18/2019 11:29	<a href="#">WG1347474</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0267	0.100	0.123	1	09/20/2019 01:22	<a href="#">WG1348819</a>
(S) a,a,a-Trifluorotoluene(FID)	106				77.0-120		09/20/2019 01:22	<a href="#">WG1348819</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000492	0.00100	0.00123	1	09/18/2019 14:51	<a href="#">WG1347795</a>
Toluene	U		0.00154	0.00500	0.00615	1	09/18/2019 14:51	<a href="#">WG1347795</a>
Ethylbenzene	U		0.000652	0.00250	0.00307	1	09/18/2019 14:51	<a href="#">WG1347795</a>
Total Xylenes	U		0.00588	0.00650	0.00799	1	09/18/2019 14:51	<a href="#">WG1347795</a>
(S) Toluene-d8	113				75.0-131		09/18/2019 14:51	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	106				67.0-138		09/18/2019 14:51	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	106				70.0-130		09/18/2019 14:51	<a href="#">WG1347795</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.98	4.00	4.92	1	09/18/2019 22:46	<a href="#">WG1347218</a>
C28-C40 Oil Range	3.36	<u>J</u>	0.337	4.00	4.92	1	09/18/2019 22:46	<a href="#">WG1347218</a>
(S) o-Terphenyl	91.7				18.0-148		09/18/2019 22:46	<a href="#">WG1347218</a>

BH-10 (4'-5')

## SAMPLE RESULTS - 45

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 15:20

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.5		1	09/19/2019 13:54	<a href="#">WG1348343</a>

1 Cp

2 Tc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	2.76	<a href="#">B J</a>	0.824	10.0	10.4	1	09/18/2019 11:39	<a href="#">WG1347474</a>

3 Ss

4 Cn

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0227	0.100	0.105	1.01	09/20/2019 01:43	<a href="#">WG1348819</a>
(S) a,a,a-Trifluorotoluene(FID)	106				77.0-120		09/20/2019 01:43	<a href="#">WG1348819</a>

5 Sr

6 Qc

7 GI

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000414	0.00100	0.00104	1	09/18/2019 15:12	<a href="#">WG1347795</a>
Toluene	U		0.00129	0.00500	0.00518	1	09/18/2019 15:12	<a href="#">WG1347795</a>
Ethylbenzene	U		0.000549	0.00250	0.00259	1	09/18/2019 15:12	<a href="#">WG1347795</a>
Total Xylenes	U		0.00495	0.00650	0.00673	1	09/18/2019 15:12	<a href="#">WG1347795</a>
(S) Toluene-d8	114				75.0-131		09/18/2019 15:12	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	96.4				67.0-138		09/18/2019 15:12	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	102				70.0-130		09/18/2019 15:12	<a href="#">WG1347795</a>

8 AI

9 Sc

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	115		3.34	4.00	8.29	2	09/18/2019 16:21	<a href="#">WG1347221</a>
C28-C40 Oil Range	194		0.568	4.00	8.29	2	09/18/2019 16:21	<a href="#">WG1347221</a>
(S) o-Terphenyl	102				18.0-148		09/18/2019 16:21	<a href="#">WG1347221</a>

BH-11 (0'-0.5')

## SAMPLE RESULTS - 46

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 16:00

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.8		1	09/19/2019 13:54	<a href="#">WG1348343</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	30.7		0.805	10.0	10.1	1	09/18/2019 11:48	<a href="#">WG1347474</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0222	0.100	0.102	1.01	09/20/2019 02:03	<a href="#">WG1348819</a>
(S) a,a,a-Trifluorotoluene(FID)	107				77.0-120		09/20/2019 02:03	<a href="#">WG1348819</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000405	0.00100	0.00101	1	09/18/2019 15:32	<a href="#">WG1347795</a>
Toluene	U		0.00127	0.00500	0.00506	1	09/18/2019 15:32	<a href="#">WG1347795</a>
Ethylbenzene	U		0.000536	0.00250	0.00253	1	09/18/2019 15:32	<a href="#">WG1347795</a>
Total Xylenes	U		0.00484	0.00650	0.00658	1	09/18/2019 15:32	<a href="#">WG1347795</a>
(S) Toluene-d8	113				75.0-131		09/18/2019 15:32	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	99.1				67.0-138		09/18/2019 15:32	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	106				70.0-130		09/18/2019 15:32	<a href="#">WG1347795</a>

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	29.8		8.15	4.00	20.2	5	09/18/2019 16:34	<a href="#">WG1347221</a>
C28-C40 Oil Range	72.4		1.39	4.00	20.2	5	09/18/2019 06:04	<a href="#">WG1347221</a>
(S) o-Terphenyl	131				18.0-148		09/18/2019 06:04	<a href="#">WG1347221</a>
(S) o-Terphenyl	129				18.0-148		09/18/2019 16:34	<a href="#">WG1347221</a>



BH-12 (0'-0.5')

## SAMPLE RESULTS - 47

ONE LAB. NATIONWIDE.



Collected date/time: 09/11/19 16:30

L1139267

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.2		1	09/19/2019 13:54	<a href="#">WG1348343</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	2.64	<a href="#">B J</a>	0.801	10.0	10.1	1	09/18/2019 11:58	<a href="#">WG1347474</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0221	0.100	0.102	1.01	09/20/2019 02:24	<a href="#">WG1348819</a>
(S) a,a,a-Trifluorotoluene(FID)	106				77.0-120		09/20/2019 02:24	<a href="#">WG1348819</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000403	0.00100	0.00101	1	09/18/2019 15:59	<a href="#">WG1347795</a>
Toluene	U		0.00126	0.00500	0.00504	1	09/18/2019 15:59	<a href="#">WG1347795</a>
Ethylbenzene	U		0.000534	0.00250	0.00252	1	09/18/2019 15:59	<a href="#">WG1347795</a>
Total Xylenes	U		0.00482	0.00650	0.00655	1	09/18/2019 15:59	<a href="#">WG1347795</a>
(S) Toluene-d8	113				75.0-131		09/18/2019 15:59	<a href="#">WG1347795</a>
(S) 4-Bromofluorobenzene	101				67.0-138		09/18/2019 15:59	<a href="#">WG1347795</a>
(S) 1,2-Dichloroethane-d4	106				70.0-130		09/18/2019 15:59	<a href="#">WG1347795</a>

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	21.1		8.11	4.00	20.2	5	09/18/2019 16:47	<a href="#">WG1347221</a>
C28-C40 Oil Range	69.9		1.38	4.00	20.2	5	09/18/2019 06:19	<a href="#">WG1347221</a>
(S) o-Terphenyl	107				18.0-148		09/18/2019 06:19	<a href="#">WG1347221</a>
(S) o-Terphenyl	118				18.0-148		09/18/2019 16:47	<a href="#">WG1347221</a>

WG1348336

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

[L1139267-01](#)

Method Blank (MB)

(MB) R3452742-1 09/19/19 19:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Total Solids	0.00100			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1139257-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1139257-06 09/19/19 19:08 • (DUP) R3452742-3 09/19/19 19:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	89.9	90.0	1	0.104		10

Laboratory Control Sample (LCS)

(LCS) R3452742-2 09/19/19 19:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

WG1348337

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

[L1139267-02,03,04,05,06,07,08,09,10,11](#)

Method Blank (MB)

(MB) R3452740-1 09/19/19 18:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Total Solids	0.00200			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1139267-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1139267-02 09/19/19 18:57 • (DUP) R3452740-3 09/19/19 18:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	96.6	96.3	1	0.398		10

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3452740-2 09/19/19 18:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

WG1348339

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

[L1139267-12,13,14,15,16,17,18,19,20,21](#)

Method Blank (MB)

(MB) R3452737-1 09/19/19 18:47

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1139267-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1139267-12 09/19/19 18:47 • (DUP) R3452737-3 09/19/19 18:47

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	98.2	96.1	1	2.15		10

Laboratory Control Sample (LCS)

(LCS) R3452737-2 09/19/19 18:47

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

WG1348340

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

[L1139267-22,23,24,25,26,27,28,29,30,31](#)

Method Blank (MB)

(MB) R3452736-1 09/19/19 18:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Total Solids	0.00100			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1139267-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1139267-23 09/19/19 18:23 • (DUP) R3452736-3 09/19/19 18:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	98.5	98.4	1	0.0544		10

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3452736-2 09/19/19 18:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

WG1348341

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

[L1139267-32,33,34,35,36,37,38,39,40,41](#)

Method Blank (MB)

(MB) R3452735-1 09/19/19 18:09

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1139267-34 Original Sample (OS) • Duplicate (DUP)

(OS) L1139267-34 09/19/19 18:09 • (DUP) R3452735-3 09/19/19 18:09

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	98.9	98.9	1	0.0197		10

Laboratory Control Sample (LCS)

(LCS) R3452735-2 09/19/19 18:09

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

WG1348343

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

[L1139267-42,43,44,45,46,47](#)

Method Blank (MB)

(MB) R3452923-1 09/19/19 13:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1139267-45 Original Sample (OS) • Duplicate (DUP)

(OS) L1139267-45 09/19/19 13:54 • (DUP) R3452923-3 09/19/19 13:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	96.5	97.4	1	0.900		10

Laboratory Control Sample (LCS)

(LCS) R3452923-2 09/19/19 13:54

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	



WG1346408

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Wet Chemistry by Method 300.0

[L1139267-01,02,03,04,05,06,07](#)

Method Blank (MB)

(MB) R3451379-1 09/17/19 01:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	2.12	J	0.795	10.0

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1139207-39 Original Sample (OS) • Duplicate (DUP)

(OS) L1139207-39 09/17/19 03:00 • (DUP) R3451379-3 09/17/19 03:14

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	315	309	1	2.11		20

L1139267-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1139267-06 09/17/19 07:48 • (DUP) R3451379-6 09/17/19 08:02

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	281	260	1	7.81		20

Laboratory Control Sample (LCS)

(LCS) R3451379-2 09/17/19 01:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	215	108	90.0-110	

L1139267-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139267-02 09/17/19 05:53 • (MS) R3451379-4 09/17/19 06:07 • (MSD) R3451379-5 09/17/19 06:22

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	517	148	920	904	149	146	1	80.0-120	J5	J5	1.71	20

WG1346419

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Wet Chemistry by Method 300.0

[L1139267-08,09,10,11,12,13,14,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) R3451345-1 09/16/19 20:05

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	3.28	J	0.795	10.0

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1135822-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1135822-15 09/16/19 21:59 • (DUP) R3451345-3 09/16/19 22:08

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	3700	3540	10	4.45		20

L1139267-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1139267-12 09/17/19 00:03 • (DUP) R3451345-6 09/17/19 00:12

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	23.5	6.37	1	115	J P1	20

Laboratory Control Sample (LCS)

(LCS) R3451345-2 09/16/19 20:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	211	106	90.0-110	

L1139267-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139267-08 09/16/19 23:05 • (MS) R3451345-4 09/16/19 23:15 • (MSD) R3451345-5 09/16/19 23:24

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	506	70.7	586	578	102	100	1	80.0-120			1.24	20

WG1346738

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Wet Chemistry by Method 300.0

[L1139267-21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40](#)

Method Blank (MB)

(MB) R3451729-1 09/17/19 20:18

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	3.18	J	0.795	10.0

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1139267-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1139267-21 09/17/19 21:20 • (DUP) R3451729-3 09/17/19 21:29

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	172	166	1	3.81		20

L1139267-40 Original Sample (OS) • Duplicate (DUP)

(OS) L1139267-40 09/18/19 01:27 • (DUP) R3451729-6 09/18/19 01:36

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	214	226	1	5.47		20

Laboratory Control Sample (LCS)

(LCS) R3451729-2 09/17/19 20:28

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	210	105	90.0-110	

L1139267-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139267-29 09/17/19 23:04 • (MS) R3451729-4 09/17/19 23:14 • (MSD) R3451729-5 09/17/19 23:23

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	570	40.9	631	610	104	99.9	1	80.0-120			3.40	20

WG1347474

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Wet Chemistry by Method 300.0

[L1139267-42,43,44,45,46,47](#)

Method Blank (MB)

(MB) R3451957-1 09/18/19 09:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	2.33	J	0.795	10.0

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1139267-43 Original Sample (OS) • Duplicate (DUP)

(OS) L1139267-43 09/18/19 11:10 • (DUP) R3451957-5 09/18/19 11:20

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4.00	2.98	1	29.2	J P1	20

L1139565-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1139565-01 09/18/19 12:07 • (DUP) R3451957-6 09/18/19 12:36

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	165	176	1	6.14		20

Laboratory Control Sample (LCS)

(LCS) R3451957-2 09/18/19 09:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	203	101	90.0-110	

L1139267-42 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139267-42 09/18/19 10:42 • (MS) R3451957-3 09/18/19 10:51 • (MSD) R3451957-4 09/18/19 11:01

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	510	4.32	557	552	108	107	1	80.0-120			0.872	20

WG1347692

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Wet Chemistry by Method 300.0

[L1139267-41](#)

Method Blank (MB)

(MB) R3452210-1 09/18/19 20:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	3.00	J	0.795	10.0

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1135822-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1135822-25 09/18/19 20:49 • (DUP) R3452210-3 09/18/19 20:58

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	6900	7290	20	5.39		20

L1140590-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1140590-01 09/18/19 23:31 • (DUP) R3452210-6 09/18/19 23:40

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	127	155	10	20.0		20

Laboratory Control Sample (LCS)

(LCS) R3452210-2 09/18/19 20:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	212	106	90.0-110	

L1139267-41 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139267-41 09/18/19 21:17 • (MS) R3452210-4 09/18/19 21:27 • (MSD) R3452210-5 09/18/19 21:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	502	22.4	521	526	99.3	100	1	80.0-120			0.980	20

WG1347755

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1139267-01,02,03,04,05,06,07,09,10,11,12](#)

Method Blank (MB)

(MB) R3452039-3 09/18/19 13:37				
Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0289	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

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

(LCS) R3452039-1 09/18/19 12:26 • (LCSD) R3452039-2 09/18/19 12:47										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.93	6.91	108	126	72.0-127			15.3	20
(S) a,a,a-Trifluorotoluene(FID)				110	112	77.0-120				

5 Sr

6 Qc

7 Gl

L1138214-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1138214-01 09/18/19 14:43 • (MS) R3452039-6 09/19/19 00:25 • (MSD) R3452039-7 09/19/19 00:45												
Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	6.50	U	1.89	2.50	29.1	38.5	1	10.0-151			27.9	28
(S) a,a,a-Trifluorotoluene(FID)					90.2	93.5		77.0-120				

8 Al

9 Sc

WG1347802

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1139267-13,14,15,16,17,18,19,20,21,22,23,24](#)

Method Blank (MB)

(MB) R3452509-1 09/18/19 11:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Laboratory Control Sample (LCS)

(LCS) R3452509-2 09/18/19 12:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.68	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	

L1139267-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139267-15 09/18/19 15:45 • (MS) R3452509-3 09/18/19 20:12 • (MSD) R3452509-4 09/18/19 20:32

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	6.15	U	2.12	4.80	34.5	77.9	1	10.0-151		J3	77.2	28
(S) a,a,a-Trifluorotoluene(FID)					98.0	105		77.0-120				

WG1348549

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1139267-08](#)

Method Blank (MB)

(MB) R3452747-3 09/19/19 11:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

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

(LCS) R3452747-1 09/19/19 10:55 • (LCSD) R3452747-2 09/19/19 11:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.13	5.96	112	108	72.0-127			2.89	20
(S) a,a,a-Trifluorotoluene(FID)				109	112	77.0-120				



WG1348619

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1139267-28,29,30,31,32,33,34](#)

Method Blank (MB)

(MB) R3452760-2 09/19/19 12:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0247	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.7			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

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

(LCS) R3452760-1 09/19/19 11:49 • (LCSD) R3452760-3 09/19/19 22:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.83	5.46	106	99.4	72.0-127			6.39	20
(S) a,a,a-Trifluorotoluene(FID)				110	106	77.0-120				

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG1348624

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1139267-35,36,37,38,39,40,41,42](#)

Method Blank (MB)

(MB) R3452843-4 09/19/19 23:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0508	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	105			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

(LCS) R3452843-1 09/19/19 12:44 • (LCSD) R3452843-3 09/19/19 18:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.48	6.46	99.6	117	72.0-127			16.4	20
(S) a,a,a-Trifluorotoluene(FID)				106	109	77.0-120				

WG1348819

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1139267-43,44,45,46,47](#)

Method Blank (MB)

(MB) R3452748-2 09/19/19 23:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3452748-1 09/19/19 22:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.55	101	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			110	77.0-120	

L1139451-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139451-04 09/20/19 06:09 • (MS) R3452748-3 09/20/19 06:29 • (MSD) R3452748-4 09/20/19 06:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	100	117	72.3	84.2	25	10.0-151			15.1	28
(S) a,a,a-Trifluorotoluene(FID)					110	112		77.0-120				

WG1348959

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1139267-25,26,27](#)

Method Blank (MB)

(MB) R3452960-2 09/20/19 11:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Laboratory Control Sample (LCS)

(LCS) R3452960-1 09/20/19 11:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.96	90.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			101	77.0-120	

WG1347343

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC/MS) by Method 8260B

[L1139267-01,02,03,04,05,06,07,08,09,10,11,12](#)

Method Blank (MB)

(MB) R3452593-3 09/17/19 21:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	111			75.0-131
(S) 4-Bromofluorobenzene	99.0			67.0-138
(S) 1,2-Dichloroethane-d4	117			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

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

(LCS) R3452593-1 09/17/19 20:35 • (LCSD) R3452593-2 09/17/19 20:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.100	0.0935	80.4	74.8	70.0-123			7.12	20
Ethylbenzene	0.125	0.119	0.113	95.0	90.8	74.0-126			4.51	20
Toluene	0.125	0.119	0.110	95.2	87.8	75.0-121			8.06	20
Xylenes, Total	0.375	0.346	0.299	92.3	79.7	72.0-127		J4	14.6	20
(S) Toluene-d8				107	107	75.0-131				
(S) 4-Bromofluorobenzene				102	103	67.0-138				
(S) 1,2-Dichloroethane-d4				116	118	70.0-130				

7 Gl

8 Al

9 Sc

L1139233-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139233-01 09/18/19 04:48 • (MS) R3452593-4 09/18/19 05:09 • (MSD) R3452593-5 09/18/19 05:29

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.0921	1.09	0.885	100	79.2	8	10.0-149			21.0	37
Ethylbenzene	0.125	0.439	2.39	2.09	195	165	8	10.0-160	J5	J5	13.2	38
Toluene	0.125	1.01	4.61	4.48	360	347	8	10.0-156	J5	J5	2.90	38
Xylenes, Total	0.375	1.94	9.65	8.92	257	233	8	10.0-160	J5	J5	7.86	38
(S) Toluene-d8					110	113		75.0-131				
(S) 4-Bromofluorobenzene					114	115		67.0-138				
(S) 1,2-Dichloroethane-d4					112	110		70.0-130				

WG1347349

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC/MS) by Method 8260B

[L1139267-13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32](#)

Method Blank (MB)

(MB) R3452584-3 09/18/19 06:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	81.2			67.0-138
(S) 1,2-Dichloroethane-d4	101			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

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

(LCS) R3452584-1 09/18/19 04:57 • (LCSD) R3452584-2 09/18/19 05:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.110	0.111	88.1	88.5	70.0-123			0.508	20
Ethylbenzene	0.125	0.115	0.112	92.2	89.4	74.0-126			3.13	20
Toluene	0.125	0.121	0.122	97.0	97.5	75.0-121			0.429	20
Xylenes, Total	0.375	0.322	0.307	85.9	81.9	72.0-127			4.77	20
(S) Toluene-d8				100	102	75.0-131				
(S) 4-Bromofluorobenzene				92.6	91.1	67.0-138				
(S) 1,2-Dichloroethane-d4				108	105	70.0-130				

7 Gl

8 Al

9 Sc

L1139267-32 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139267-32 09/18/19 12:23 • (MS) R3452584-4 09/18/19 12:41 • (MSD) R3452584-5 09/18/19 13:00

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.129	0.000435	0.0805	0.0981	62.0	75.6	1	10.0-149			19.6	37
Ethylbenzene	0.129	U	0.0817	0.100	63.3	77.7	1	10.0-160			20.5	38
Toluene	0.129	U	0.0939	0.117	72.7	90.4	1	10.0-156			21.7	38
Xylenes, Total	0.387	U	0.232	0.288	59.9	74.3	1	10.0-160			21.5	38
(S) Toluene-d8					108	107		75.0-131				
(S) 4-Bromofluorobenzene					86.7	88.1		67.0-138				
(S) 1,2-Dichloroethane-d4					101	101		70.0-130				

WG1347795

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC/MS) by Method 8260B

[L1139267-33,34,35,36,37,38,39,40,41,42,43,44,45,46,47](#)

Method Blank (MB)

(MB) R3452485-2 09/18/19 07:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	114			75.0-131
(S) 4-Bromofluorobenzene	99.7			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3452485-1 09/18/19 06:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.0960	76.8	70.0-123	
Ethylbenzene	0.125	0.114	90.9	74.0-126	
Toluene	0.125	0.122	97.7	75.0-121	
Xylenes, Total	0.375	0.314	83.7	72.0-127	
(S) Toluene-d8			111	75.0-131	
(S) 4-Bromofluorobenzene			101	67.0-138	
(S) 1,2-Dichloroethane-d4			108	70.0-130	

L1139267-33 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139267-33 09/18/19 11:04 • (MS) R3452485-3 09/18/19 18:02 • (MSD) R3452485-4 09/18/19 18:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.130	U	0.0938	0.0801	72.0	61.5	1	10.0-149			15.7	37
Ethylbenzene	0.130	U	0.109	0.103	83.6	79.4	1	10.0-160			5.21	38
Toluene	0.130	U	0.115	0.105	88.0	80.4	1	10.0-156			8.94	38
Xylenes, Total	0.391	U	0.296	0.290	75.7	74.2	1	10.0-160			2.03	38
(S) Toluene-d8					114	118		75.0-131				
(S) 4-Bromofluorobenzene					96.9	100		67.0-138				
(S) 1,2-Dichloroethane-d4					108	102		70.0-130				

WG1345951

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Semi-Volatile Organic Compounds (GC) by Method 8015

[L1139267-01,02,03,04,05,06,07,08,09](#)

Method Blank (MB)

(MB) R3450998-1 09/15/19 22:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	67.1			18.0-148

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3450998-2 09/15/19 22:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	33.1	66.2	50.0-150	
(S) o-Terphenyl			84.8	18.0-148	

L1138633-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1138633-06 09/16/19 05:05 • (MS) R3450998-3 09/16/19 05:18 • (MSD) R3450998-4 09/16/19 05:31

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	62.2	ND	45.9	41.1	73.7	66.1	1	50.0-150			11.0	20
(S) o-Terphenyl					89.7	82.0		18.0-148				



WG1345980

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Semi-Volatile Organic Compounds (GC) by Method 8015

[L1139267-10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27](#)

Method Blank (MB)

(MB) R3450999-1 09/15/19 21:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	26.6			18.0-148

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3450999-2 09/15/19 21:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.0	72.0	50.0-150	
(S) o-Terphenyl			89.6	18.0-148	

L1139267-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139267-14 09/16/19 13:42 • (MS) R3450999-3 09/16/19 13:55 • (MSD) R3450999-4 09/16/19 14:09

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	52.4	36.1	83.0	82.9	89.6	89.4	10	50.0-150			0.126	20
(S) o-Terphenyl					92.8	91.1		18.0-148				

Sample Narrative:

OS: Cannot run at lower dilution due to viscosity of extract

WG1346816

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Semi-Volatile Organic Compounds (GC) by Method 8015

[L1139267-28,29,30,31,32,33,34,35,36,37,38,39](#)

Method Blank (MB)

(MB) R3452048-1 09/17/19 17:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	2.01	J	1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	76.7			18.0-148

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3452048-2 09/17/19 17:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	35.8	71.6	50.0-150	
(S) o-Terphenyl			90.7	18.0-148	

L1139267-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139267-31 09/17/19 19:37 • (MS) R3452048-3 09/17/19 19:50 • (MSD) R3452048-4 09/17/19 20:03

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.2	1.87	44.9	36.4	87.3	69.8	1	50.0-150		J3	20.9	20
(S) o-Terphenyl					88.7	90.3		18.0-148				

WG1347218

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Semi-Volatile Organic Compounds (GC) by Method 8015

[L1139267-40,41,42,43,44](#)

Method Blank (MB)

(MB) R3451752-1 09/18/19 01:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	92.6			18.0-148

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3451752-2 09/18/19 01:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	46.9	93.8	50.0-150	
(S) o-Terphenyl			89.8	18.0-148	

L1139287-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139287-01 09/18/19 19:54 • (MS) R3451752-3 09/18/19 20:07 • (MSD) R3451752-4 09/18/19 20:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	63.0	ND	59.6	53.9	94.6	85.6	1	50.0-150			9.99	20
(S) o-Terphenyl					87.4	86.2		18.0-148				

WG1347221

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Semi-Volatile Organic Compounds (GC) by Method 8015

[L1139267-45,46,47](#)

Method Blank (MB)

(MB) R3451753-1 09/18/19 01:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.480	<u>J</u>	0.274	4.00
(S) o-Terphenyl	96.7			18.0-148

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

Laboratory Control Sample (LCS)

(LCS) R3451753-2 09/18/19 01:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	50.7	101	50.0-150	
(S) o-Terphenyl			104	18.0-148	

<sup>8</sup> Al

<sup>9</sup> Sc

L1139294-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1139294-07 09/18/19 03:32 • (MS) R3451753-3 09/18/19 03:47 • (MSD) R3451753-4 09/18/19 04:02

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	83.2	U	ND	ND	0.000	0.000	1	50.0-150	<u>J6</u>	<u>J6</u>	0.000	20
(S) o-Terphenyl					93.8	97.6		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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MQL (dry)	Method Quantitation Limit.
MQL	Method Quantitation Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
(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 Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
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.
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.

## Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Qualifier	Description	
J4	The associated batch QC was outside the established quality control range for accuracy.	<sup>1</sup> Cp
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.	<sup>2</sup> Tc
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.	
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.	<sup>3</sup> Ss
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.	<sup>4</sup> Cn
		<sup>5</sup> Sr
		<sup>6</sup> Qc
		<sup>7</sup> Gl
		<sup>8</sup> Al
		<sup>9</sup> Sc

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 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 <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1 6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	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

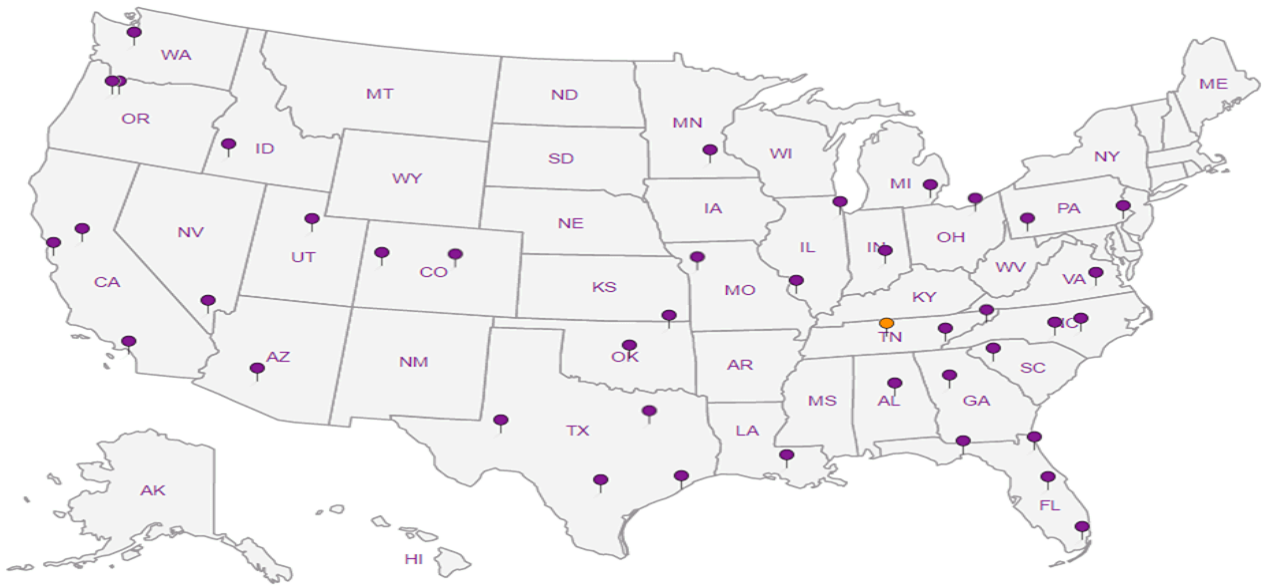
Third Party Federal Accreditations

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

<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.





C147

### Analysis Request of Chain of Custody Record

Page : 1 of 5

Tetra Tech, Inc.						901 West Wall Street, Suite 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946																	
Client Name: ConocoPhillips						Site Manager: Christian Llull																	
Project Name: COP Baish A Battery																							
Project Location: Lea County, New Mexico						Project #: 212C-MD-01878																	
Invoice to: Accounts Payable West Wall Street, Suite 100 Midland, Texas 79701																							
Receiving Laboratory: Pace Analytical						Sampler Signature: [Signature]																	
Comments: COPTETRA Acctnum																							
LAB #  (LAB USE ONLY)		SAMPLE IDENTIFICATION		SAMPLING YEAR: 2019		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)		ANALYSIS REQUEST (Circle or Specify Method No.)									
				DATE TIME		WATER SOIL		HCL HNO3 ICE NONE						BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCPLP Metals Ag As Ba Cd Cr Pb Se Hg TCPLP Volatiles TCPLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCBs's 8082 / 608 NORM PLM (Asbestos) Chloride 300.0 Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance TPH 8015R HOLD									
		BH-1 (0'- 1')		9/10/2019 1200		X				X		N		X X									
		BH-1 (2'- 3')		9/10/2019 1205		X				X		N		X X									
		BH-1 (4'- 5')		9/10/2019 1210		X				X		N		X X									
		BH-1 (6'- 7')		9/10/2019 1220		X				X		N		X X									
		BH-1 (9'- 10')		9/10/2019 1230		X				X		N		X X									
		BH-2 (0'- 1')		9/10/2019 1300		X				X		N		X X									
		BH-2 (2'- 3')		9/10/2019 1305		X				X		N		X X									
		BH-2 (4'- 5')		9/10/2019 1310		X				X		N		X X									
		BH-2 (6'- 7')		9/10/2019 1320		X				X		N		X X									
		BH-2 (9'- 10')		9/10/2019 1330		X				X		N		X X									
Relinquished by: [Signature] Date: 9-12-19 Time: 14:45						Received by: [Signature] Date: 9-12-19 Time: 14:45						LAB USE ONLY						REMARKS: <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report					
Relinquished by: [Signature] Date: 9-12-19 Time: 17:00						Received by: [Signature] Date: 9-12-19 Time: 17:00						Sample Temperature											
Relinquished by: [Signature] Date: 9-13-19 Time: 8:45						Received by: [Signature] Date: 9-13-19 Time: 8:45																	

ORIGINAL COPY

RAD SCREEN: &lt;0.5 mR/hr

0,3-2=0,1  
K2P

47 cantures



Page : 2 of 5

0.3-2=al  
A2p

## Analysis Request of Chain of Custody Record

Page : 3 of 5

[illegible]

ORIGINAL COPY

RAD SCREEN: <0.5 mR/hr

0.372 = 0.1  
ABR





### Analysis Request of Chain of Custody Record



## Tetra Tech, Inc.

901 West Wall Street, Suite 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

L1139267

Client Name: ConocoPhillips

Site Manager: Christian Llull

Project Name: COP Baish A Battery

Project #: 212C-MD-01878

Project Location: Lea County, New Mexico  
(county, state)

Invoice to: Accounts Payable  
West Wall Street, Suite 100 Midland, Texas 79701

Receiving Laboratory: Pace Analytical

Sampler Signature: \_\_\_\_\_

Comments: COPTETRA Acctnum

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

[illegible]

Comments:

COPTETRA Acctnum

LAB #  (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		YEAR: 2019		WATER	SOIL		HCL	HNO <sub>3</sub>	ICE	NONE		
		DATE	TIME									
	BH-9 (0'- 1')	9/11/2019	1440		X				X		1	N
	BH-9 (2'- 3')	9/11/2019	1450		X				X		1	N
	BH-10 (0'- 1')	9/11/2019	1500		X				X		1	N
	BH-10 (2'- 3')	9/11/2019	1510		X				X		1	N
	BH-10 (4'- 5')	9/11/2019	1520		X				X		1	N
	BH-11 (0'- 0.5')	9/11/2019	1600		X				X		1	N
	BH-12 (0'- 0.5')	9/11/2019	1630		X				X		1	N

Relinquished by:

Date: Time:

Received by:

Date: Time:

LAB USE  
ONLY

REMARKS:

☒ STANDARD☐ RUSH: Same Day 24 hr 48 hr 72 hr☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

Sample Temperature

Relinquished by:

Date: Time:

Received by:

Date: Time:

Date: Time:

Received by

Date: Time

Relinquished by:

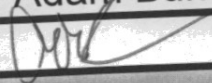
ORIGINAL COPY

RAD SCREEN:  $<0.5$  mR/hr

(Circle) HAND DELIVERED FEDEX UPS Tracking #:



Pace Analytical National Center for Testing & Innovation  
Cooler Receipt Form

Client:	COPTETRA		L11391267	
Cooler Received/Opened On:	9/13/19	Temperature:	0.1	
Received By:	Adam Burns			
Signature:				
Receipt Check List		NP	Yes	No
COC Seal Present / Intact?		<input checked="" type="checkbox"/>		
COC Signed / Accurate?			<input checked="" type="checkbox"/>	
Bottles arrive intact?			<input checked="" type="checkbox"/>	
Correct bottles used?			<input checked="" type="checkbox"/>	
Sufficient volume sent?				
If Applicable				
VOA Zero headspace?				
Preservation Correct / Checked?				

## **APPENDIX D**

### **Soil Boring Logs**

212C-MD-01878		<b>TETRA TECH</b>		<b>LOG OF BORING BH-1</b>				Page 1 of 1			
Project Name: Baish "A" Battery Release											
Borehole Location: GPS: N 32.822855° E -103.763964°						Surface Elevation: 4015 ft					
Borehole Number: BH-1						Borehole Diameter (in.): 8		Date Started: 9/10/2019		Date Finished: 9/10/2019	

WATER LEVEL OBSERVATIONS															
While Drilling $\nabla$ <u>DRY</u> ft    Upon Completion of Drilling $\nabla$ <u>DRY</u> ft															
Remarks:															
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	TPH FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS	
5			ExStik	PID								- <b>FILL</b> - FILL MATERIAL; Base material, tan, very dense, with occasional small gravel, dry.	0.5	BH-1 (0'-1')	
			694	13.4									- <b>SM</b> - SILTY SAND; Tan, loose to medium dense, with gravel, medium hydrocarbon odor, with no staining.	3.5	BH-1 (2'-3')
			307	10.8									- <b>SM</b> - SILTY SAND; Brown, medium dense, moderately cemented, with no hydrocarbon odor, with no staining.		BH-1 (4'-5')
			538	10.3										BH-1 (6'-7')	
			423	6.6									- <b>CL</b> - SANDY CLAY; Brown, medium stiff to stiff, with no hydrocarbon odor, with no staining.	8	
10												10	BH-1 (9'-10')		

Bottom of borehole at 10.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary Auger Air Rotary Core Barrel Direct Push	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
---	--	--

Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
-------------------	--------------------------------	-------------------------------

212C-MD-01878		<b>TETRA TECH</b>		<b>LOG OF BORING BH-2</b>				Page 1 of 1	
Project Name: Baish "A" Battery Release									
Borehole Location: GPS: N 32.822731° E -103.764074°						Surface Elevation: 4015 ft			
Borehole Number: BH-2				Borehole Diameter (in.): 8		Date Started: 9/10/2019		Date Finished: 9/10/2019	

WATER LEVEL OBSERVATIONS															
While Drilling $\nabla$ <u>DRY</u> ft Upon Completion of Drilling $\nabla$ <u>DRY</u> ft															
Remarks:															
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	TPH FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT		PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
								LL	PI						
5	W	X	ExStik	PID									- <b>FILL</b> - FILL MATERIAL; Base material, tan, very dense, with occasional small gravel, dry.	0.5	BH-2 (0'-1')
													- <b>SM</b> - SILTY SAND; Tan, loose to medium dense, with gravel, with high hydrocarbon odor, with no staining.	1.5	
													- <b>SM</b> - SILTY SAND; Tan, medium dense, uniform, with medium hydrocarbon odor, with no staining.	3.5	
													- <b>SM</b> - SILTY SAND; Brown, medium dense to dense, moderately cemented, with no hydrocarbon odor, with no staining.	8	
														10	
													- <b>CL</b> - SANDY CLAY; Brown, medium stiff to stiff, with few gravel, with no hydrocarbon odor, with no staining.	10	BH-2 (9'-10')
<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   California   Test Pit         </div> </div>	<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 50%;">  Auger   Air Rotary   Core Barrel   Direct Push         </div> </div>	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.													
Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling													



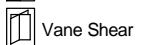
212C-MD-01878		<b>TETRA TECH</b>		<b>LOG OF BORING BH-3</b>				Page 1 of 1		
Project Name: Baish "A" Battery Release										
Borehole Location: GPS: N 32.822685° E -103.764515°						Surface Elevation: 4015 ft				
Borehole Number: BH-3					Borehole Diameter (in.): 8		Date Started: 9/10/2019		Date Finished: 9/10/2019	

WATER LEVEL OBSERVATIONS															
While Drilling $\nabla$ <u>DRY</u> ft Upon Completion of Drilling $\nabla$ <u>DRY</u> ft															
Remarks:															
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	TPH FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS	
5			ExStik	8.1								- <b>FILL</b> - FILL MATERIAL; Base material, tan, very dense, with occasional small gravel, dry.	0.5	BH-3 (0'-1')	
				36.2	7.2									1.5	BH-3 (2'-3')
					7										BH-3 (4'-5')
					7.8										BH-3 (6'-7')
					7										8
10															

Bottom of borehole at 10.0 feet.

Sampler Types:



Operation Types:



Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.

Logger: Joe Tyler

Drilling Equipment: Air Rotary

Driller: Scarborough Drilling

212C-MD-01878		<b>TETRA TECH</b>		<b>LOG OF BORING BH-4</b>				Page 1 of 1	
Project Name: Baish "A" Battery Release									
Borehole Location: GPS: N 32.822711° E -103.764344°						Surface Elevation: 4015 ft			
Borehole Number: BH-4					Borehole Diameter (in.): 8		Date Started: 9/10/2019		Date Finished: 9/10/2019

WATER LEVEL OBSERVATIONS															
While Drilling $\nabla$ <u>DRY</u> ft Upon Completion of Drilling $\nabla$ <u>DRY</u> ft															
Remarks:															
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	TPH FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION		DEPTH (ft)	REMARKS
												ExStik	PID		
5	[Symbol]	[Symbol]	152	36.1							[Symbol]	-FILL- FILL MATERIAL; Base material, tan, very dense, with occasional small gravel, dry.	0.5	BH-4 (0'-1')	
				39.4						-SM- SILTY SAND; Tan, loose to medium dense, with gravel, with high hydrocarbon odor, with no staining.		1.5	BH-4 (2'-3')		
				39.1						-SM- SILTY SAND; Brown, medium dense, moderately cemented, with medium hydrocarbon odor, with no staining.		5.5			BH-4 (4'-5')
			112	16						-SM- SILTY SAND; Brown, medium dense, cemented, with no hydrocarbon odor, with no staining.		8			
					10								-SM- SILTY SAND; Brown, medium dense to dense, with few gravel, with no hydrocarbon odor, with no staining.		10
<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   California   Test Pit         </div> </div>	<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 50%;">  Auger   Air Rotary   Core Barrel   Direct Push         </div> </div>	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.													
Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling													

212C-MD-01878		<b>TETRA TECH</b>		<b>LOG OF BORING BH-5</b>				Page 1 of 1			
Project Name: Baish "A" Battery Release											
Borehole Location: GPS: N 32.822849° E -103.764246°						Surface Elevation: 4015 ft					
Borehole Number: BH-5						Borehole Diameter (in.): 8		Date Started: 9/11/2019		Date Finished: 9/11/2019	

WATER LEVEL OBSERVATIONS															
While Drilling $\nabla$ <u>DRY</u> ft Upon Completion of Drilling $\nabla$ <u>DRY</u> ft															
Remarks:															
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	TPH FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT		PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
								LL	PI						
5	Split Spoon	ExStik	258	2.8	>1100								0.5	BH-5 (0'-1')	
				2.5									1.5		BH-5 (2'-3')
				4.4									4.5		BH-5 (4'-5')
				4.2									9.0		BH-5 (6'-7')
10	Split Spoon	ExStik	98	>1100	>1100								10	BH-5 (9'-10')	
				100.8									12.0	BH-5 (12'-13')	
				54.5									14.0	BH-5 (14'-15')	
				6.2									17.0	BH-5 (17'-18')	
20	Split Spoon	ExStik		6.2									20	BH-5 (19'-20')	
<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary Auger Air Rotary Core Barrel Direct Push	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.													
Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling													

212C-MD-01878		<b>TETRA TECH</b>		<b>LOG OF BORING BH-6</b>				Page 1 of 1																																																																												
Project Name: Baish "A" Battery Release																																																																																				
Borehole Location: GPS: N 32.822664° E -103.764107°						Surface Elevation: 4012 ft																																																																														
Borehole Number: BH-6						Borehole Diameter (in.): 8		Date Started: 9/11/2019		Date Finished: 9/11/2019																																																																										
<b>WATER LEVEL OBSERVATIONS</b> While Drilling $\nabla$ <u>DRY</u> ft    Upon Completion of Drilling $\nabla$ <u>DRY</u> ft Remarks:																																																																																				
<b>MATERIAL DESCRIPTION</b>																																																																																				
Bottom of borehole at 7.0 feet.																																																																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">DEPTH (ft)</th> <th rowspan="2">OPERATION TYPE</th> <th rowspan="2">SAMPLE</th> <th>CHLORIDE FIELD SCREENING (ppm)</th> <th>TPH FIELD SCREENING (ppm)</th> <th rowspan="2">SAMPLE RECOVERY (%)</th> <th rowspan="2">MOISTURE CONTENT (%)</th> <th rowspan="2">DRY DENSITY (pcf)</th> <th colspan="2">LIQUID LIMIT</th> <th colspan="2">PLASTICITY INDEX</th> <th rowspan="2">MINUS NO. 200 (%)</th> <th rowspan="2">GRAPHIC LOG</th> <th rowspan="2">REMARKS</th> </tr> <tr> <th>ExStik</th> <th>PID</th> <th>LL</th> <th>PI</th> </tr> </thead> <tbody> <tr> <td rowspan="4" style="text-align: center; vertical-align: middle;">5</td> <td rowspan="4" style="text-align: center; vertical-align: middle;"></td> <td rowspan="4" style="text-align: center; vertical-align: middle;"></td> <td style="text-align: center;">91.3</td> <td style="text-align: center;">17.2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td rowspan="4" style="text-align: center; vertical-align: middle;"></td> <td rowspan="4" style="text-align: center; vertical-align: middle;">           -SM- SILTY SAND; Brown, loose to medium dense, moderately cemented, with no hydrocarbon odor, with no staining.         </td> </tr> <tr> <td style="text-align: center;">87.1</td> <td style="text-align: center;">16.6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">6.6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">82.2</td> <td style="text-align: center;">4.6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">7</td> <td style="text-align: center;">BH-6 (6'-7')</td> </tr> </tbody> </table>										DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	TPH FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT		PLASTICITY INDEX		MINUS NO. 200 (%)	GRAPHIC LOG	REMARKS	ExStik	PID	LL	PI	5			91.3	17.2										-SM- SILTY SAND; Brown, loose to medium dense, moderately cemented, with no hydrocarbon odor, with no staining.	87.1	16.6									6.6							82.2	4.6																					7	BH-6 (6'-7')
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	TPH FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT					PLASTICITY INDEX					MINUS NO. 200 (%)	GRAPHIC LOG	REMARKS																																																																
			ExStik	PID				LL	PI																																																																											
5			91.3	17.2										-SM- SILTY SAND; Brown, loose to medium dense, moderately cemented, with no hydrocarbon odor, with no staining.																																																																						
			87.1	16.6																																																																																
				6.6																																																																																
			82.2	4.6																																																																																
														7	BH-6 (6'-7')																																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"> <b>Sampler Types:</b>   Split Spoon   Shelby   Bulk Sample   Grab Sample       </td> <td style="width: 30%;"> <b>Acetate Liner</b>   Vane Shear   California   Test Pit       </td> <td style="width: 30%;"> <b>Operation Types:</b>   Mud Rotary   Continuous Flight Auger   Wash Rotary       </td> <td style="width: 30%;">  Auger   Air Rotary   Core Barrel   Direct Push       </td> <td style="width: 40%;"> <b>Notes:</b>          Analytical samples are shown in the "Remarks" column.          Surface elevation is an estimated value.       </td> </tr> </table>										<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	<b>Acetate Liner</b> Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary	Auger Air Rotary Core Barrel Direct Push	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.																																																																						
<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	<b>Acetate Liner</b> Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary	Auger Air Rotary Core Barrel Direct Push	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.																																																																																
Logger: Joe Tyler					Drilling Equipment: Air Rotary					Driller: Scarborough Drilling																																																																										

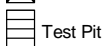
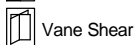
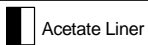
212C-MD-01878		<b>TETRA TECH</b>		<b>LOG OF BORING BH-7</b>				Page 1 of 1							
Project Name: Baish "A" Battery Release															
Borehole Location: GPS: N 32.822616°, E -103.763856°						Surface Elevation: 4010 ft									
Borehole Number: BH-7						Borehole Diameter (in.): 8		Date Started: 9/11/2019		Date Finished: 9/11/2019					
<b>WATER LEVEL OBSERVATIONS</b> While Drilling $\nabla$ <u>DRY</u> ft    Upon Completion of Drilling $\nabla$ <u>DRY</u> ft Remarks:															
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	TPH FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	<b>MATERIAL DESCRIPTION</b>	DEPTH (ft)	<b>REMARKS</b>	
5	[Symbol]	[Symbol]	41.8	6.8							[Symbol]	-SM- SILTY SAND; Brown, loose to medium dense, moderately cemented, with no hydrocarbon odor, with no staining.	—	BH-7 (0'-1')	
			36.4	4.7										—	BH-7 (2'-3')
			6.3											5	BH-7 (4'-5')
Bottom of borehole at 5.0 feet.															
<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample		Acetate Liner Vane Shear California Test Pit		<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary		Auger Air Rotary Core Barrel Direct Push		<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.							
<b>Logger:</b> Joe Tyler				<b>Drilling Equipment:</b> Air Rotary				<b>Driller:</b> Scarborough Drilling							

212C-MD-01878		<b>TETRA TECH</b>		<b>LOG OF BORING BH-8</b>				Page 1 of 1			
Project Name: Baish "A" Battery Release											
Borehole Location: GPS: N 32.822709°, E -103.763875°						Surface Elevation: 4010 ft					
Borehole Number: BH-8						Borehole Diameter (in.): 8		Date Started: 9/11/2019		Date Finished: 9/11/2019	

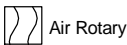
  

WATER LEVEL OBSERVATIONS																
While Drilling $\nabla$ <u>DRY</u> ft    Upon Completion of Drilling $\nabla$ <u>DRY</u> ft																
Remarks:																
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	TPH FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION		DEPTH (ft)	REMARKS	
												ExStik	PID			LL
5				252.8									- <b>SM</b> - SILTY SAND; Brown, loose to medium dense, with organic material, with high hydrocarbon odor, with no staining.	0	BH-8 (0'-1')	
				237.5										3.5	BH-8 (2'-3')	
			671	36.8											7.5	BH-8 (4'-5')
			180	4.1												BH-8 (6'-7')
10			128	3.4									- <b>SM</b> - SILTY SAND: Tan, medium dense, with no hydrocarbon odor, with no staining.	10	BH-8 (9'-10')	

Sampler Types:



Operation Types:



Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.

Logger: Joe Tyler

Drilling Equipment: Air Rotary

Driller: Scarborough Drilling

BAISH LOGS.GPJ ` 11-8-19 ` TT AUSTIN GEOTECH NOWELL3 ` 2015 TT TEMPLATE DECEMBER WELL.GDT'''

212C-MD-01878		<b>TETRA TECH</b>										<b>LOG OF BORING BH-10</b>															Page 1 of 1																																											
Project Name: Baish "A" Battery Release																																																																						
Borehole Location: GPS: N 32.822714°, E -103.763627°															Surface Elevation: 4010 ft																																																							
Borehole Number: BH-10															Borehole Diameter (in.): 8					Date Started: 9/11/2019					Date Finished: 9/11/2019																																													
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th rowspan="2">DEPTH (ft)</th> <th rowspan="2">OPERATION TYPE</th> <th rowspan="2">SAMPLE</th> <th>CHLORIDE FIELD SCREENING (ppm)</th> <th>TPH FIELD SCREENING (ppm)</th> <th>SAMPLE RECOVERY (%)</th> <th>MOISTURE CONTENT (%)</th> <th>DRY DENSITY (pcf)</th> <th>LIQUID LIMIT</th> <th>PLASTICITY INDEX</th> <th rowspan="2">MINUS NO. 200 (%)</th> <th rowspan="2">GRAPHIC LOG</th> </tr> <tr> <th>ExStik</th> <th>PID</th> <th>LL</th> <th>PI</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="text-align: center; vertical-align: middle;">5</td> <td rowspan="3" style="text-align: center; vertical-align: middle;"></td> <td rowspan="3" style="text-align: center; vertical-align: middle;"></td> <td style="text-align: center;">134</td> <td style="text-align: center;">8.6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td rowspan="3" style="text-align: center; vertical-align: middle;"></td> </tr> <tr> <td style="text-align: center;">112</td> <td style="text-align: center;">9.8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">3.4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> <div style="width: 55%;"> <p style="text-align: center; margin-top: 0;"><b>WATER LEVEL OBSERVATIONS</b></p> <p>While Drilling <math>\nabla</math> <u>DRY</u> ft    Upon Completion of Drilling <math>\nabla</math> <u>DRY</u> ft</p> <p>Remarks:</p> </div> </div>																														DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	TPH FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	ExStik	PID	LL	PI	5			134	8.6								112	9.8						3.4					
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	TPH FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG																																																											
			ExStik	PID	LL	PI																																																																
5			134	8.6																																																																		
			112	9.8																																																																		
			3.4																																																																			
<b>MATERIAL DESCRIPTION</b>												DEPTH (ft)		REMARKS																																																								
<b>-SM-</b> SILTY SAND; Brown, loose to medium dense, with low hydrocarbon odor, with no staining.												1.5		BH-10 (0'-1')																																																								
<b>-SM-</b> SILTY SAND; Brown, medium dense, moderately cemented, with no hydrocarbon odor, with no staining.														BH-10 (2'-3')																																																								
												5		BH-10 (4'-5')																																																								
Bottom of borehole at 5.0 feet.																																																																						
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><b>Sampler Types:</b></p> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 45%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 45%;">  Acetate Liner   Vane Shear   California   Test Pit         </div> </div> </div> <div style="width: 30%;"> <p><b>Operation Types:</b></p> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 45%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 45%;">  Auger   Air Rotary   Core Barrel   Direct Push         </div> </div> </div> <div style="width: 35%;"> <p><b>Notes:</b></p> <p>Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.</p> </div> </div>																																																																						
Logger: Joe Tyler										Drilling Equipment: Air Rotary										Driller: Scarborough Drilling																																																		



## **APPENDIX E**

### **NMSLO Seed Mixture Details**



United States  
Department of  
Agriculture

**NRCS**

Natural  
Resources  
Conservation  
Service

A product of the National  
Cooperative Soil Survey,  
a joint effort of the United  
States Department of  
Agriculture and other  
Federal agencies, State  
agencies including the  
Agricultural Experiment  
Stations, and local  
participants

# Custom Soil Resource Report for **Lea County, New Mexico**

**Baish "A" Battery**



## Preface

---

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

# Contents

---

**Preface**

.....

2

**How Soil Surveys Are Made**

.....

5

**Soil Map**

.....

8

Soil Map

.....

9

Legend

.....

10

Map Unit Legend

.....

11

Map Unit Descriptions

.....

11

Lea County, New Mexico

.....

13

KM—Kermite soils and dune land, 0 to 12 percent slopes

.....

13

**References**

.....

15

## How Soil Surveys Are Made

---

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

## Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

## Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

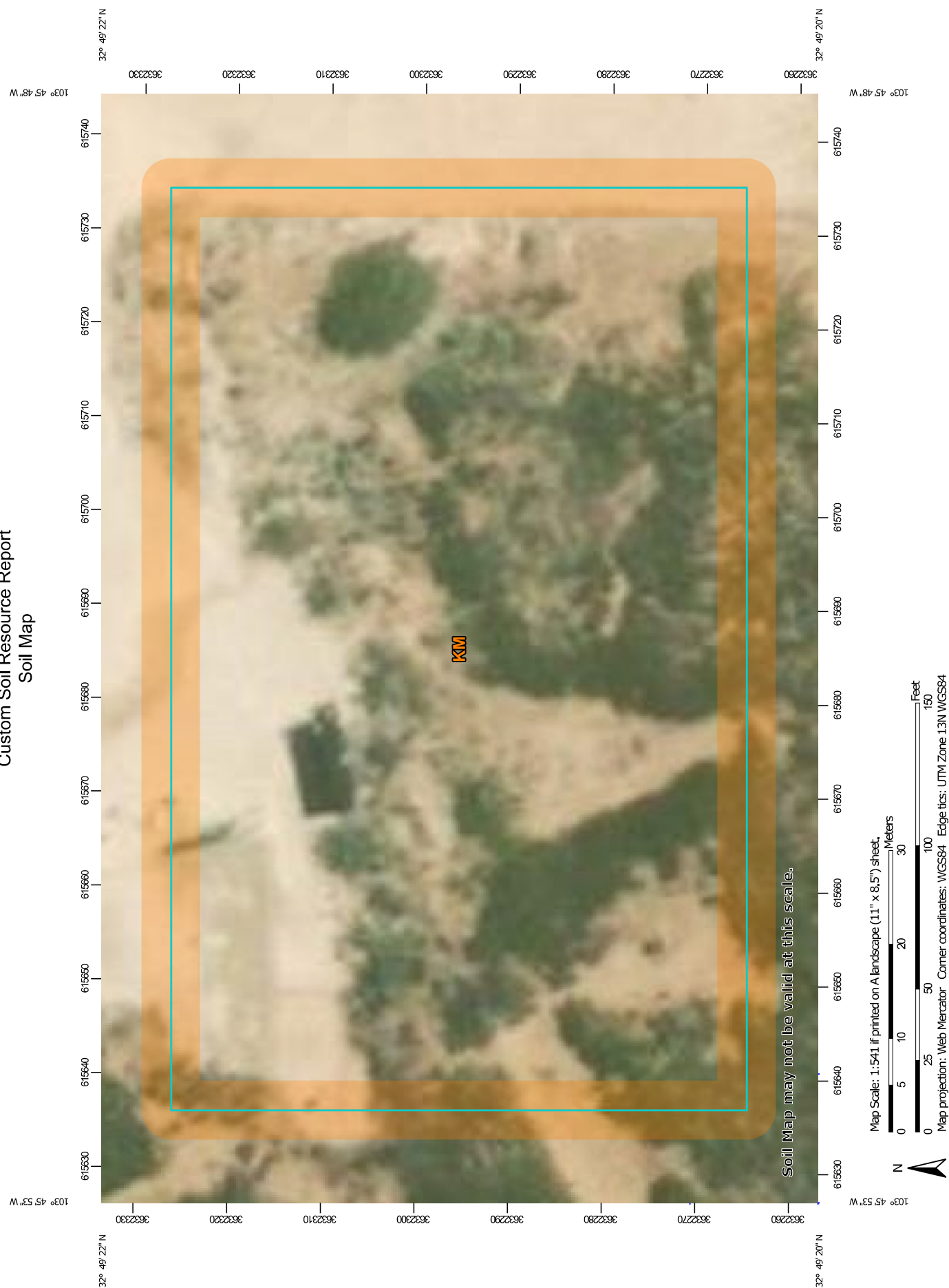


## Soil Map

---

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

# Custom Soil Resource Report Soil Map



# Custom Soil Resource Report

## MAP LEGEND

## MAP INFORMATION

**Area of Interest (AOI)**

- Area of Interest (AOI)

**Soils**

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

**Special Point Features**

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot

Feature	Symbol
Spoil Area	
Stony Spot	
Very Stony Spot	
Wet Spot	
Other	
Special Line Features	
<b>Water Features</b>	
Streams and Canals	
<b>Transportation</b>	
Rails	
Interstate Highways	
US Routes	
Major Roads	
Local Roads	
<b>Background</b>	
Aerial Photography	

The soil surveys that comprise your AOI were mapped at 1:20,000.

**Warning: Soil Map may not be valid at this scale.**

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.sc.egov.usda.gov/>  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 16, Sep 15, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 18, 2016—Nov 20, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit soils and dune land, 0 to 12 percent slopes	1.5	100.0%
<b>Totals for Area of Interest</b>		<b>1.5</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

## Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## Custom Soil Resource Report

**Lea County, New Mexico****KM—Kermit soils and dune land, 0 to 12 percent slopes****Map Unit Setting**

*National map unit symbol:* dmpx  
*Elevation:* 3,000 to 4,400 feet  
*Mean annual precipitation:* 10 to 15 inches  
*Mean annual air temperature:* 60 to 62 degrees F  
*Frost-free period:* 190 to 205 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Dune land:* 45 percent  
*Kermit and similar soils:* 45 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Dune Land****Setting**

*Landform:* Dunes  
*Landform position (two-dimensional):* Shoulder, backslope, footslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex, linear, concave  
*Across-slope shape:* Convex

**Typical profile**

*A - 0 to 6 inches:* fine sand  
*C - 6 to 60 inches:* fine sand

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8e  
*Hydrologic Soil Group:* A  
*Hydric soil rating:* No

**Description of Kermit****Setting**

*Landform:* Dunes  
*Landform position (two-dimensional):* Shoulder, backslope, footslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex, linear, concave  
*Across-slope shape:* Convex  
*Parent material:* Calcareous sandy eolian deposits derived from sedimentary rock

**Typical profile**

*A - 0 to 8 inches:* fine sand  
*C - 8 to 60 inches:* fine sand

**Properties and qualities**

*Slope:* 5 to 12 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Excessively drained  
*Runoff class:* Very low

## Custom Soil Resource Report

*Capacity of the most limiting layer to transmit water (Ksat):* Very high (20.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 3 percent  
*Gypsum, maximum in profile:* 1 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 2.0  
*Available water storage in profile:* Low (about 3.1 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* A  
*Ecological site:* Sandhills (R042XC022NM)  
*Hydric soil rating:* No

**Minor Components****Palomas**

*Percent of map unit:* 3 percent  
*Ecological site:* Loamy Sand (R042XC003NM)  
*Hydric soil rating:* No

**Pyote**

*Percent of map unit:* 3 percent  
*Ecological site:* Loamy Sand (R042XC003NM)  
*Hydric soil rating:* No

**Maljamar**

*Percent of map unit:* 2 percent  
*Ecological site:* Loamy Sand (R042XC003NM)  
*Hydric soil rating:* No

**Wink**

*Percent of map unit:* 2 percent  
*Ecological site:* Loamy Sand (R042XC003NM)  
*Hydric soil rating:* No

## References

---

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_054262](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262)

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053577](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577)

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053580](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580)

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2\\_053374](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374)

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelpdb1043084>



## Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2\\_054242](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242)

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053624](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624)

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. [http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs142p2\\_052290.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf)

**NMSLO Seed Mix****Shallow (SH)****SHALLOW (SH) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
<b>Grasses:</b>			
Sideoats grama	Vaughn, El Reno	4.0	F
Blue grama	Lovington, Hachita	3.0	D
Little bluestem	Pastura, Cimmaron	1.5	F
Green sprangletop	VNS, Southern	1.0	D
Plains bristlegrass	VNS, Southern	1.0	D
<b>Forbs:</b>			
Firewheel ( <i>Gaillardia</i> )	VNS, Southern	1.0	D
<b>Shrubs:</b>			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
<b>Total PLS/acre</b>		<b>13.0</b>	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.

