

SITE INFORMATION

Report Type: Work Plan

General Site Information:

Site:	MCA Battery 1					
Company:	ConocoPhillips Company					
Section, Township and Range	Unit A	Sec. 30	T 17S	R 32E		
Lease Number:	API No.					
County:	Lea County					
GPS:	32.88110619° N			103.8080673° W		
Surface Owner:	Federal					
Mineral Owner:						
Directions:	From Maljamar, go west on US-82 for approximately 2 miles. Turn left onto Supee Road (HWY 124) for 1.5 miles. Turn right and travel 0.7 miles to the site.					

Release Data:

Date Released:	2/3/2017
Type Release:	Produced water and Oil
Source of Contamination:	Flow line
Fluid Released:	8.4 bbls water / 0.5 bbl oil
Fluids Recovered:	4 bbls

Official Communication:

Name:	Neal Goates		Greg Pope, P.G.
Company:	ConocoPhillips		Tetra Tech
Address:	16290 Katy Fwy		4000 N. Big Spring
			Ste 401
City:	Houston, Texas		Midland, Texas
Phone number:	(832) 486-2425		(432) 687-8134
Fax:	(832) 465-4123		
Email:	n.goates@conocophillips.com		Greg.Pope@tetrattech.com

Ranking Criteria

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	Approximately 80 feet
>100 ft.	0	
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score:		10

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	1,000

February 20, 2018

Ms. Olivia Yu
Environmental Engineer Specialist
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

NMOCD approves of the delineation completed for 1RP-4609 and proposed remediation plan with these conditions: 1) Laboratory analyses of confirmation bottom and sidewalls required. 2) Mark locations on a scaled map.

Re: Work Plan for the ConocoPhillips Company, MCA Battery 1, Unit A, Section 30, Township 17 South, Range 32 East, Lea County, New Mexico.

Ms. Yu:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (Conoco) to assess a release that occurred at the MCA Battery 1, Unit A, Section 30, Township 17 South, Range 32 East, Lea County, New Mexico (site). The spill site coordinates are N 32.8110619°, W 103.8080673°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on February 3, 2017, and released approximately 8.4 barrels of produced water and 0.5 barrels of crude oil due to a flow line leak. Approximately four (4) barrels of fluid were recovered. As part of the emergency response action, Conoco isolated the well to repair the flowline. The release occurred on the battery caliche pad and measured approximately 120' x 40'. The initial C-141 Form is included in Appendix A.

Groundwater

No water wells were listed within Section 30 on the New Mexico Office of the State Engineer's (NMOSE) database or on the Chevron Texaco Groundwater Trend map. However, according to the Chevron Trend Map, the depth to groundwater in the area is approximately 150 feet. The nearest well reported in the database was located in Section 28 with a depth to water of approximately 81 feet. Tetra Tech previously conducted a soil investigation in Section 30 logging 180 feet below surface and did not encounter groundwater. Due to inefficient groundwater data, the average depth to groundwater in this area is estimated to be less than 100 feet below surface. The groundwater data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. 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. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

Soil Assessment and Analytical Results

On August 31, 2017, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of three (3) soil borings (B-1, B-2, and B-3) were installed in the spill area to assess and define the extent of impacted soil and presented on Figure 3. Soil samples were collected and field screened for organic vapors with a PID and for chlorides. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8260B and chloride by EPA method 300.0. The soil analytical results are summarized in Table 1, and a copy of the laboratory analytical report and chain-of-custody document are included in Appendix C.

Referring to Table 1, the BTEX concentrations were all below the laboratory reporting limits. Total TPH concentrations exceeded the RRALs of 1,000 mg/kg for the three (3) borings in the 0-1' depth interval and 2-3' depth interval. The total TPH concentrations in the 4-5' depth interval did not exceed the RRALs and continued to decrease in concentration with depth. Chloride concentrations exceeding the recommended 600 mg/kg limit were reported in following intervals: B-1 (0-1') 2,500 mg/kg, B-1 (2-3') 1,460 mg/kg, B-2 (0-1') 756 mg/kg, B-3 (0-1') 1,540 mg/kg, and B-3 (2-3') 2,090 mg/kg. However, chloride concentrations were not reported in the 4-5' depth interval or below the recommended limit. Chlorides were defined below 600 mg/Kg delineation threshold.

Work Plan

Based on the results, ConocoPhillips proposes to remove the impacted material as highlighted (green) in Table 2 and shown on Figure 4. ConocoPhillips proposes to excavate the areas of boreholes (B-1, B-2, and B-3) to a depth of 2-3 feet below surface. The excavation will then be backfilled with clean material to surface grade. All of the excavated material will be transported offsite for proper disposal.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to



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safely concerns for onsite personnel. Due to the location, ConocoPhillips will excavate the impacted soils to the maximum extent practicable.

Conclusion

Upon completion, 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 at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Todd Wells,
Project Manager

Greg Pope,
Senior Project Manager, P.G.

cc: Neal Goates – ConocoPhillips

Figures

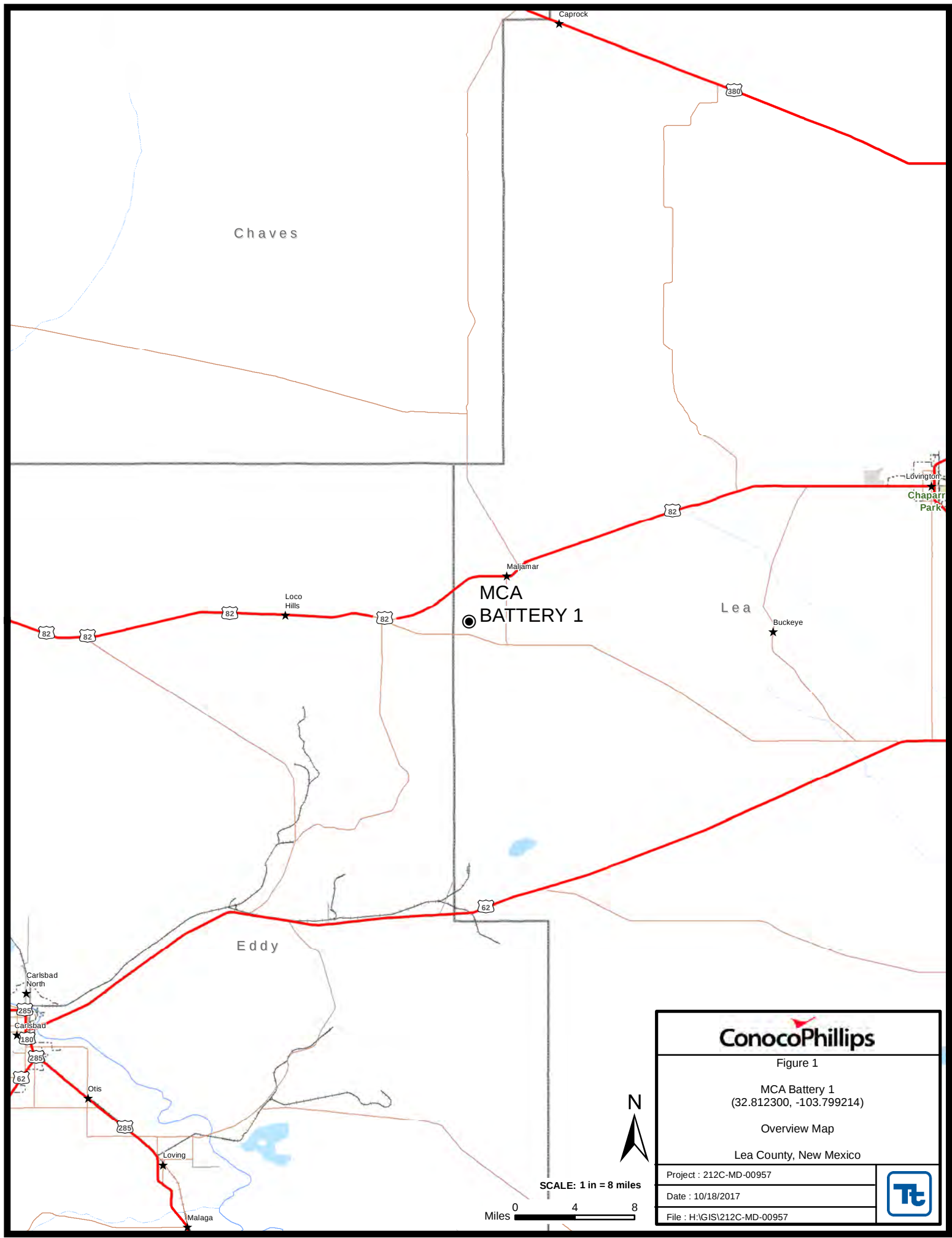


Figure 1

MCA Battery 1
(32.812300, -103.799214)

Overview Map

Lea County, New Mexico

Project : 212C-MD-00957

Date : 10/18/2017

File : H:\GIS\212C-MD-00957



SCALE: 1 in = 8 miles





EXPLANATION

- SOIL BORING SAMPLE LOCATIONS
- ▨ SPILL AREA 2,737 SQ FT



SCALE: 1 IN = 50 FEET

Feet 0 25 50

ConocoPhillips

Figure 3

MCA Battery 1
(32.812300, -103.799214)

Spill Assessment Map

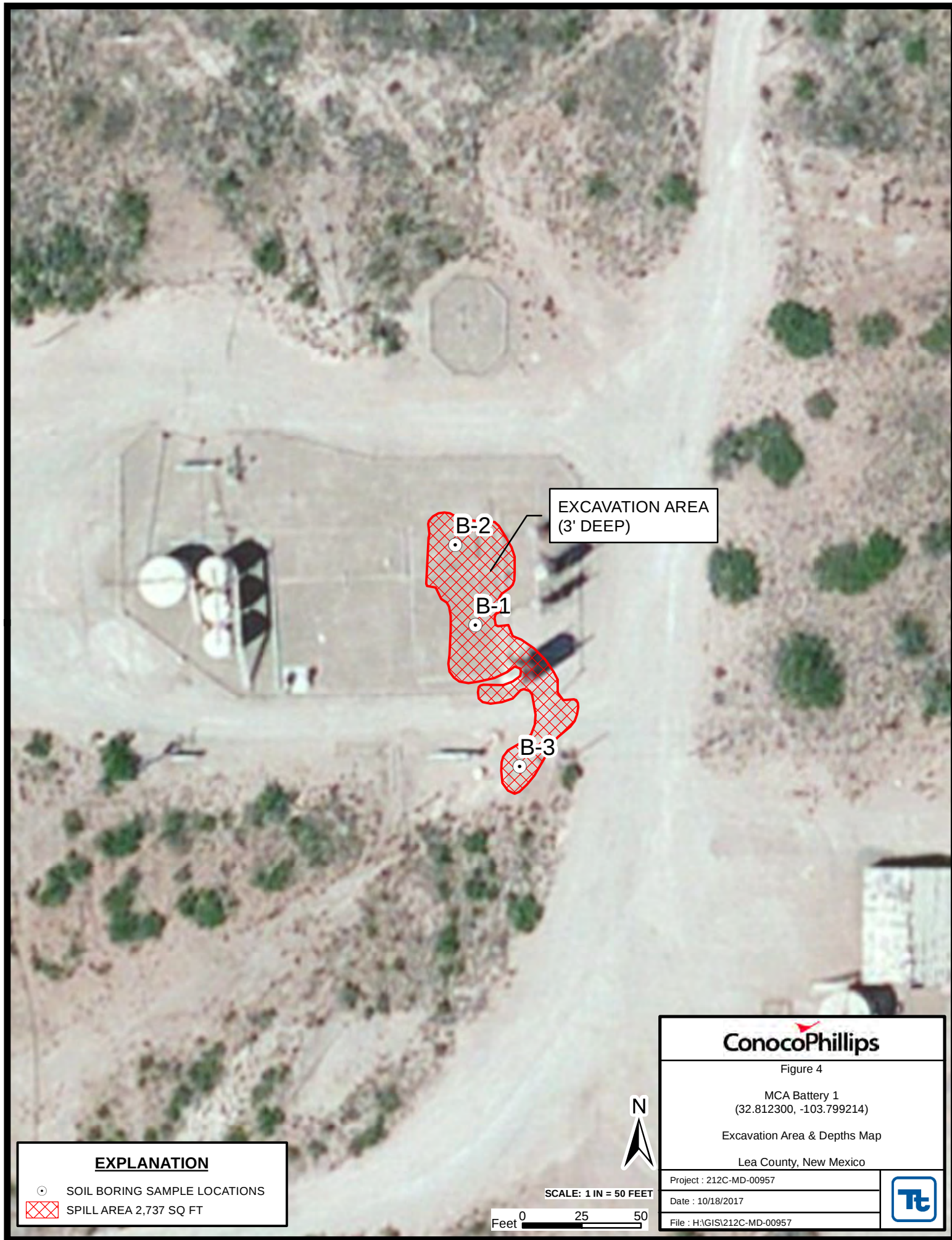
Lea County, New Mexico

Project : 212C-MD-00957

Date : 10/18/2017

File : H:\GIS\212C-MD-00957





EXPLANATION

- SOIL BORING SAMPLE LOCATIONS
- ▨ SPILL AREA 2,737 SQ FT

SCALE: 1 IN = 50 FEET

Feet 0 25 50



ConocoPhillips

Figure 4

MCA Battery 1
(32.812300, -103.799214)

Excavation Area & Depths Map

Lea County, New Mexico

Project : 212C-MD-00957

Date : 10/18/2017

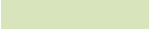
File : H:\GIS\212C-MD-00957



Tables

Table 1
ConocoPhillips
MCA Battery 1
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		Field PID (PPM)	TPH GRO mg/kg	Organics			BTEX					Chlorides (mg/kg)
			In-situ	Removed			Diesel Range Organics mg/kg	Oil Range Organics mg/kg	Total Organics	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	
B-1 - Auger	08/31/17	0-1	X		6.5	<11.1	1,100	1,380	2,480	<0.0022	<0.0022	<0.0022	<0.0066	<0.0066	2,500
	"	2-3	X		3.3	<9.9	605	965	1,570	<0.0023	<0.0023	<0.0023	<0.0068	<0.0068	1,460
	"	4-5	X		2.0	<10.1	18.7	17.3	36.0	<0.0022	<0.0022	<0.0022	<0.0065	<0.0065	<97.3
	"	14-15	X		1.0	<10.6	<5.2	9.3	9.3	<0.0021	<0.0021	<0.0021	<0.0064	<0.0064	<107
B-2 - Auger	08/31/17	0-1	X		6.7	<11.1	3,260	3,440	6,700	<0.0022	<0.0022	<0.0022	<0.0066	<0.0066	756
	"	2-3	X		4.6	<10.6	2,140	2,130	4,270	<0.0021	<0.0021	<0.0021	<0.0064	<0.0064	598
	"	4-5	X		2.6	<10.9	42.6	39.2	81.8	<0.0022	<0.0022	<0.0022	<0.0066	<0.0066	122
	"	14-15	X		1.3	<11.1	<5.5	9.2	9.2	<0.0022	<0.0022	<0.0022	<0.0066	<0.0066	176
B-3 - Auger	08/31/17	0-1	X		0.8	<11.0	3,310	3,010	6,320	<0.0022	<0.0022	<0.0022	<0.0066	<0.0066	1,540
	"	2-3	X		0.7	<10.9	915	885	1,800	<0.0022	<0.0022	<0.0022	<0.0065	<0.0065	2,090
	"	4-5	X		1.0	<11.3	34.4	22.3	56.7	<0.0023	<0.0023	<0.0023	<0.0068	<0.0068	<111
	"	14-15	X		0.8	<10.6	<5.3	8.9	8.9	<0.0021	<0.0021	<0.0021	<0.0064	<0.0064	209

(-) Not Analyzed
 Proposed Excavation Depths

Photos

ConocoPhillips
MCA Battery 1
Lea County, New Mexico



View North - Area of B-1



View North – Area of B-2

ConocoPhillips
MCA Battery 1
Lea County, New Mexico



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View North – Area of B-3

Appendix A

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: ConocoPhillips	Contact: Cullen Rosine	
Address: 29 Vacuum Complex Lane	Telephone No. 575-391-3133	
Facility Name: MCA Battery 1	Facility Type: Battery	
Surface Owner: Federal	Mineral Owner: N/A	API No.

LOCATION OF RELEASE

Unit Letter A	Section 30	Township 17S	Range 32E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude 32.8110619 Longitude -103.8080673

NATURE OF RELEASE

Type of Release: Oil/Produced Water	Volume of Release: .5 BBL Oil 8.4BPW	Volume Recovered: 4 BBL
Source of Release: Flow line	Date and Hour of Occurrence 2-3-2017 1230 PM	Date and Hour of Discovery 2-3-2017 1300
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Shelly Tucker	
By Whom? Cullen Rosine	Date and Hour: 2-6-2017 0815 via phone/email	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken. On February 3, 2017 at 1300hrs a leak occurred on MCA Battery 1 header. The release resulted in a loss of .5 BO – 8.4 BPW with 4 BBL recovered. Spill site will be remediated per BLM and NMOCD guidelines.		
Describe Area Affected and Cleanup Action Taken. * Area 1 – 120' X 40' X 2" deep.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		
Signature: <i>Cullen Rosine</i>		OIL CONSERVATION DIVISION
Printed Name: Cullen Rosine		
Title: HSE Specialist	Approved by Environmental Specialist:	
E-mail Address: Cullen.J.Rosine@conocophillips.com	Approval Date:	Expiration Date:
Date: 02/03/2017 Phone: 575-391-3133	Conditions of Approval:	Attached ☐

* Attach Additional Sheets If Necessary

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Conoco Phillips - MCA Battery 1
Lea County, New Mexico

16 South			31 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

16 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

16 South			33 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

17 South			31 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

17 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

17 South			33 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

18 South			31 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

18 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

18 South			33 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
 Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location



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 closed)

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

(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
L 03980	L	LE		2	2	2	01	17S	32E	620466	3637594*	270	200	70
L 03980 S	L	LE		4	4	4	02	17S	32E	618870	3636170*	255	179	76
L 03980 S2	L	LE		3	2	3	01	17S	32E	619470	3636581*	225	175	50
L 04019	L	LE		4	3	4	02	17S	32E	618468	3636166*	182		
L 04020	L	LE		3	3	4	02	17S	32E	618268	3636166*	200		
L 04021	R	L	LE	3	4	4	02	17S	32E	618670	3636170*	190		
L 04021 POD3	L	LE			3	4	03	17S	32E	616761	3636252*	247		
L 04021 S	L	LE		2	4	4	03	17S	32E	617262	3636354*	260		
L 13047 POD1	L	LE					11	17S	32E	618187	3635254*	140		
L 13050 POD1	L	LE		2	2	1	10	17S	32E	616463	3635945*	156	132	24
RA 08855		LE		4	1	1	10	17S	32E	616061	3635742*	158		
RA 09505		LE		2	2	1	10	17S	32E	616462	3635944	147		
RA 09505 S		LE		2	2	1	10	17S	32E	616463	3635945*	144		
RA 10175		LE			2	1	28	17S	32E	614814	3631005*	158		
RA 11684 POD1		LE		1	1	4	11	17S	32E	618216	3635124	275		
RA 11684 POD2		LE		1	1	4	11	17S	32E	618313	3635248	275		
RA 11684 POD3		LE		3	3	1	11	17S	32E	618262	3635371	275		
RA 11684 POD4		LE		1	3	2	11	17S	32E	618334	3635521	275		
RA 11684 POD5		LE		3	1	4	11	17S	32E	618353	3635047	275		
RA 11734 POD1		LE		2	2	1	10	17S	32E	616556	3635929	165		
RA 11911 POD1		LE		1	3	1	24	17S	32E	619192	3632296	35		
RA 12020 POD1		LE		2	2	1	28	17S	32E	614828	3630954	120	81	39
RA 12042 POD1		LE		2	2	1	28	17S	32E	614891	3631181	400		

*UTM location was derived from PLSS - see Help

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

Average Depth to Water: **153 feet**
Minimum Depth: **81 feet**
Maximum Depth: **200 feet**

Record Count: 23

PLSS Search:

Township: 17S **Range:** 32E

Appendix C

September 19, 2017

Greg Pope
TetraTech
4000 N. Big Spring St.
Ste 401
Midland, TX 79705

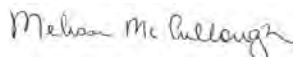
RE: Project: 212C-MD-00957/COP MCA Battery1
Pace Project No.: 7573252

Dear Greg Pope:

Enclosed are the analytical results for sample(s) received by the laboratory on September 06, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Melissa McCullough
melissa.mccullough@pacelabs.com
(972)727-1123
Project Manager

Enclosures

cc: Todd Wells, TetraTech



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013

EPA# TX00074

Florida Certification #: E871118

Texas Certification #: T104704232

Kansas Certification #: E-10388

Arkansas Certification #: 88-0647

Oklahoma Certification #: TX00074

Louisiana Certification #: 30686

Iowa Certification #: 408

Florida Certification #: E871118

Nevada Certification #: TX00074

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7573252001	B-1 (0'-1')	Solid	08/31/17 15:50	09/06/17 09:25
7573252002	B-1 (2'-3')	Solid	08/31/17 15:50	09/06/17 09:25
7573252003	B-1 (4'-5')	Solid	08/31/17 15:50	09/06/17 09:25
7573252004	B-1 (14'-15')	Solid	08/31/17 15:50	09/06/17 09:25
7573252005	B-2 (0'-1')	Solid	08/31/17 16:30	09/06/17 09:25
7573252006	B-2 (2'-3')	Solid	08/31/17 16:30	09/06/17 09:25
7573252007	B-2 (4'-5')	Solid	08/31/17 16:30	09/06/17 09:25
7573252008	B-2 (14'-15')	Solid	08/31/17 16:30	09/06/17 09:25
7573252009	B-3 (0'-1')	Solid	08/31/17 17:15	09/06/17 09:25
7573252010	B-3 (2'-3')	Solid	08/31/17 17:15	09/06/17 09:25
7573252011	B-3 (4'-5')	Solid	08/31/17 17:15	09/06/17 09:25
7573252012	B-3 (14'-15')	Solid	08/31/17 17:15	09/06/17 09:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7573252001	B-1 (0'-1')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-D
7573252002	B-1 (2'-3')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-D
7573252003	B-1 (4'-5')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-D
7573252004	B-1 (14'-15')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-D
7573252005	B-2 (0'-1')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-D
7573252006	B-2 (2'-3')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-D
7573252007	B-2 (4'-5')	EPA 8015B	JS	2	PASI-D

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7573252008	B-2 (14'-15')	EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
7573252009	B-3 (0-1')	EPA 300.0	OL	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
7573252010	B-3 (2'-3')	EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-D
		EPA 8015B	JS	2	PASI-D
7573252011	B-3 (4'-5')	EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
7573252012	B-3 (14'-15')	EPA 300.0	OL	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-D

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ANALYTICAL RESULTS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Sample: B-1 (0-1') **Lab ID: 7573252001** Collected: 08/31/17 15:50 Received: 09/06/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	1100	mg/kg	54.2	10	09/12/17 09:30	09/15/17 08:55		
Surrogates								
a-Pinene (S)	28	%	10-87	10	09/12/17 09:30	09/15/17 08:55		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	1380	mg/kg	271	50	09/12/17 09:30	09/13/17 18:22		N2
Surrogates								
a-Pinene (S)	69	%	17-70	50	09/12/17 09:30	09/13/17 18:22		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	11.1	1	09/08/17 00:00	09/09/17 00:04		
Surrogates								
4-Bromofluorobenzene (S)	98	%	64-122	1	09/08/17 00:00	09/09/17 00:04	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0022	1	09/06/17 16:00	09/07/17 08:24	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	09/06/17 16:00	09/07/17 08:24	100-41-4	
Toluene	ND	mg/kg	0.0022	1	09/06/17 16:00	09/07/17 08:24	108-88-3	
Xylene (Total)	ND	mg/kg	0.0066	1	09/06/17 16:00	09/07/17 08:24	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1	09/06/17 16:00	09/07/17 08:24	17060-07-0	
4-Bromofluorobenzene (S)	114	%	70-130	1	09/06/17 16:00	09/07/17 08:24	460-00-4	
Toluene-d8 (S)	98	%	70-130	1	09/06/17 16:00	09/07/17 08:24	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	9.1	%		1		09/12/17 15:27		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	2500	mg/kg	212	20	09/09/17 14:00	09/12/17 10:42	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Sample: B-1 (2'-3') **Lab ID: 7573252002** Collected: 08/31/17 15:50 Received: 09/06/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	605	mg/kg	55.8	10	09/12/17 09:30	09/15/17 06:46		
Surrogates								
a-Pinene (S)	36	%	10-87	10	09/12/17 09:30	09/15/17 06:46		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	965	mg/kg	279	50	09/12/17 09:30	09/13/17 19:14		N2
Surrogates								
a-Pinene (S)	84	%	17-70	50	09/12/17 09:30	09/13/17 19:14		S5
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	9.9	1	09/08/17 00:00	09/09/17 00:21		
Surrogates								
4-Bromofluorobenzene (S)	100	%	64-122	1	09/08/17 00:00	09/09/17 00:21	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0023	1	09/06/17 15:00	09/06/17 23:22	71-43-2	
Ethylbenzene	ND	mg/kg	0.0023	1	09/06/17 15:00	09/06/17 23:22	100-41-4	
Toluene	ND	mg/kg	0.0023	1	09/06/17 15:00	09/06/17 23:22	108-88-3	
Xylene (Total)	ND	mg/kg	0.0068	1	09/06/17 15:00	09/06/17 23:22	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	110	%	70-130	1	09/06/17 15:00	09/06/17 23:22	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1	09/06/17 15:00	09/06/17 23:22	460-00-4	
Toluene-d8 (S)	98	%	70-130	1	09/06/17 15:00	09/06/17 23:22	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	11.6	%		1		09/12/17 15:27		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	1460	mg/kg	101	10	09/09/17 14:00	09/10/17 22:21	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Sample: B-1 (4'-5') **Lab ID: 7573252003** Collected: 08/31/17 15:50 Received: 09/06/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	18.7	mg/kg	5.4	1	09/12/17 09:30	09/14/17 20:25		
Surrogates								
a-Pinene (S)	33	%	10-87	1	09/12/17 09:30	09/14/17 20:25		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	17.3	mg/kg	5.4	1	09/12/17 09:30	09/13/17 17:56		N2
Surrogates								
a-Pinene (S)	41	%	17-70	1	09/12/17 09:30	09/13/17 17:56		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.1	1	09/08/17 00:00	09/09/17 00:38		
Surrogates								
4-Bromofluorobenzene (S)	100	%	64-122	1	09/08/17 00:00	09/09/17 00:38	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/06/17 23:47	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/06/17 23:47	100-41-4	
Toluene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/06/17 23:47	108-88-3	
Xylene (Total)	ND	mg/kg	0.0065	1	09/06/17 15:00	09/06/17 23:47	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%	70-130	1	09/06/17 15:00	09/06/17 23:47	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1	09/06/17 15:00	09/06/17 23:47	460-00-4	
Toluene-d8 (S)	100	%	70-130	1	09/06/17 15:00	09/06/17 23:47	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	7.9	%		1		09/12/17 15:27		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	ND	mg/kg	97.3	10	09/09/17 14:00	09/10/17 22:36	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Sample: B-1 (14'-15') **Lab ID: 7573252004** Collected: 08/31/17 15:50 Received: 09/06/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	ND	mg/kg	5.2	1	09/13/17 10:30	09/14/17 05:07		CH
Surrogates								
a-Pinene (S)	30	%	10-87	1	09/13/17 10:30	09/14/17 05:07		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	9.3	mg/kg	5.2	1	09/13/17 10:30	09/14/17 05:07		N2
Surrogates								
a-Pinene (S)	37	%	17-70	1	09/13/17 10:30	09/14/17 05:07		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.6	1	09/13/17 00:00	09/13/17 17:59		
Surrogates								
4-Bromofluorobenzene (S)	103	%	64-122	1	09/13/17 00:00	09/13/17 17:59	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0021	1	09/06/17 15:00	09/07/17 00:11	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	09/06/17 15:00	09/07/17 00:11	100-41-4	
Toluene	ND	mg/kg	0.0021	1	09/06/17 15:00	09/07/17 00:11	108-88-3	
Xylene (Total)	ND	mg/kg	0.0064	1	09/06/17 15:00	09/07/17 00:11	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%	70-130	1	09/06/17 15:00	09/07/17 00:11	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1	09/06/17 15:00	09/07/17 00:11	460-00-4	
Toluene-d8 (S)	96	%	70-130	1	09/06/17 15:00	09/07/17 00:11	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	5.0	%		1		09/12/17 15:27		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	ND	mg/kg	107	10	09/09/17 14:00	09/10/17 22:51	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Sample: B-2 (0-1') **Lab ID: 7573252005** Collected: 08/31/17 16:30 Received: 09/06/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	3260	mg/kg	271	50	09/13/17 10:30	09/15/17 13:23		
Surrogates								
a-Pinene (S)	35	%.	10-87	50	09/13/17 10:30	09/15/17 13:23		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	3440	mg/kg	271	50	09/13/17 10:30	09/18/17 16:38		N2
Surrogates								
a-Pinene (S)	40	%.	17-70	50	09/13/17 10:30	09/18/17 16:38		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	11.1	1	09/13/17 00:00	09/13/17 18:47		
Surrogates								
4-Bromofluorobenzene (S)	92	%	64-122	1	09/13/17 00:00	09/13/17 18:47	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 00:36	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 00:36	100-41-4	
Toluene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 00:36	108-88-3	
Xylene (Total)	ND	mg/kg	0.0066	1	09/06/17 15:00	09/07/17 00:36	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%.	70-130	1	09/06/17 15:00	09/07/17 00:36	17060-07-0	
4-Bromofluorobenzene (S)	103	%.	70-130	1	09/06/17 15:00	09/07/17 00:36	460-00-4	
Toluene-d8 (S)	98	%.	70-130	1	09/06/17 15:00	09/07/17 00:36	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	9.1	%		1		09/12/17 15:27		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	756	mg/kg	110	10	09/09/17 14:00	09/10/17 23:06	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Sample: B-2 (2'-3') **Lab ID: 7573252006** Collected: 08/31/17 16:30 Received: 09/06/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	2140	mg/kg	259	50	09/13/17 10:30	09/15/17 12:31		
Surrogates								
a-Pinene (S)	38	%	10-87	50	09/13/17 10:30	09/15/17 12:31		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	2130	mg/kg	259	50	09/13/17 10:30	09/18/17 17:30		N2
Surrogates								
a-Pinene (S)	46	%	17-70	50	09/13/17 10:30	09/18/17 17:30		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.6	1	09/13/17 00:00	09/13/17 19:03		
Surrogates								
4-Bromofluorobenzene (S)	92	%	64-122	1	09/13/17 00:00	09/13/17 19:03	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0021	1	09/06/17 15:00	09/07/17 01:00	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	09/06/17 15:00	09/07/17 01:00	100-41-4	
Toluene	ND	mg/kg	0.0021	1	09/06/17 15:00	09/07/17 01:00	108-88-3	
Xylene (Total)	ND	mg/kg	0.0064	1	09/06/17 15:00	09/07/17 01:00	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	70-130	1	09/06/17 15:00	09/07/17 01:00	17060-07-0	
4-Bromofluorobenzene (S)	106	%	70-130	1	09/06/17 15:00	09/07/17 01:00	460-00-4	
Toluene-d8 (S)	100	%	70-130	1	09/06/17 15:00	09/07/17 01:00	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	6.2	%		1		09/12/17 15:28		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	598	mg/kg	108	10	09/09/17 14:00	09/10/17 23:21	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Sample: B-2 (4'-5') **Lab ID: 7573252007** Collected: 08/31/17 16:30 Received: 09/06/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	42.6	mg/kg	5.4	1	09/13/17 10:30	09/14/17 23:01		
Surrogates								
a-Pinene (S)	36	%	10-87	1	09/13/17 10:30	09/14/17 23:01		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	39.2	mg/kg	5.4	1	09/13/17 10:30	09/14/17 09:00		N2
Surrogates								
a-Pinene (S)	40	%	17-70	1	09/13/17 10:30	09/14/17 09:00		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.9	1	09/13/17 00:00	09/13/17 19:20		
Surrogates								
4-Bromofluorobenzene (S)	100	%	64-122	1	09/13/17 00:00	09/13/17 19:20	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 01:24	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 01:24	100-41-4	
Toluene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 01:24	108-88-3	
Xylene (Total)	ND	mg/kg	0.0066	1	09/06/17 15:00	09/07/17 01:24	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	70-130	1	09/06/17 15:00	09/07/17 01:24	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1	09/06/17 15:00	09/07/17 01:24	460-00-4	
Toluene-d8 (S)	97	%	70-130	1	09/06/17 15:00	09/07/17 01:24	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	9.2	%		1		09/12/17 15:28		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	122	mg/kg	110	10	09/09/17 14:00	09/11/17 00:05	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Sample: B-2 (14'-15') **Lab ID: 7573252008** Collected: 08/31/17 16:30 Received: 09/06/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	ND	mg/kg	5.5	1	09/13/17 10:30	09/14/17 07:42		CH
Surrogates								
a-Pinene (S)	38	%	10-87	1	09/13/17 10:30	09/14/17 07:42		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	9.2	mg/kg	5.5	1	09/13/17 10:30	09/14/17 07:42		N2
Surrogates								
a-Pinene (S)	47	%	17-70	1	09/13/17 10:30	09/14/17 07:42		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	11.1	1	09/13/17 00:00	09/13/17 19:36		
Surrogates								
4-Bromofluorobenzene (S)	97	%	64-122	1	09/13/17 00:00	09/13/17 19:36	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 01:49	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 01:49	100-41-4	
Toluene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 01:49	108-88-3	
Xylene (Total)	ND	mg/kg	0.0066	1	09/06/17 15:00	09/07/17 01:49	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	116	%	70-130	1	09/06/17 15:00	09/07/17 01:49	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1	09/06/17 15:00	09/07/17 01:49	460-00-4	
Toluene-d8 (S)	96	%	70-130	1	09/06/17 15:00	09/07/17 01:49	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	9.4	%		1		09/12/17 15:28		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	176	mg/kg	111	10	09/09/17 14:00	09/11/17 00:20	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Sample: B-3 (0-1') **Lab ID: 7573252009** Collected: 08/31/17 17:15 Received: 09/06/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	3310	mg/kg	270	50	09/13/17 10:30	09/15/17 16:55		
Surrogates								
a-Pinene (S)	66	%.	10-87	50	09/13/17 10:30	09/15/17 16:55		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	3010	mg/kg	270	50	09/13/17 10:30	09/18/17 12:39		N2
Surrogates								
a-Pinene (S)	58	%.	17-70	50	09/13/17 10:30	09/18/17 12:39		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	11.0	1	09/13/17 00:00	09/13/17 19:53		
Surrogates								
4-Bromofluorobenzene (S)	102	%	64-122	1	09/13/17 00:00	09/13/17 19:53	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 02:13	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 02:13	100-41-4	
Toluene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 02:13	108-88-3	
Xylene (Total)	ND	mg/kg	0.0066	1	09/06/17 15:00	09/07/17 02:13	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%.	70-130	1	09/06/17 15:00	09/07/17 02:13	17060-07-0	
4-Bromofluorobenzene (S)	103	%.	70-130	1	09/06/17 15:00	09/07/17 02:13	460-00-4	
Toluene-d8 (S)	99	%.	70-130	1	09/06/17 15:00	09/07/17 02:13	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	9.1	%		1		09/12/17 15:28		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	1540	mg/kg	111	10	09/09/17 14:00	09/11/17 00:35	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Sample: B-3 (2'-3') **Lab ID: 7573252010** Collected: 08/31/17 17:15 Received: 09/06/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	915	mg/kg	268	50	09/13/17 10:30	09/15/17 15:35		
Surrogates								
a-Pinene (S)	75	%.	10-87	50	09/13/17 10:30	09/15/17 15:35		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	885	mg/kg	53.6	10	09/13/17 10:30	09/18/17 11:48		N2
Surrogates								
a-Pinene (S)	61	%.	17-70	10	09/13/17 10:30	09/18/17 11:48		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.9	1	09/13/17 00:00	09/13/17 20:09		
Surrogates								
4-Bromofluorobenzene (S)	93	%	64-122	1	09/13/17 00:00	09/13/17 20:09	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 02:37	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 02:37	100-41-4	
Toluene	ND	mg/kg	0.0022	1	09/06/17 15:00	09/07/17 02:37	108-88-3	
Xylene (Total)	ND	mg/kg	0.0065	1	09/06/17 15:00	09/07/17 02:37	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%.	70-130	1	09/06/17 15:00	09/07/17 02:37	17060-07-0	
4-Bromofluorobenzene (S)	104	%.	70-130	1	09/06/17 15:00	09/07/17 02:37	460-00-4	
Toluene-d8 (S)	100	%.	70-130	1	09/06/17 15:00	09/07/17 02:37	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	7.9	%		1		09/12/17 15:29		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	2090	mg/kg	214	20	09/09/17 14:00	09/12/17 10:56	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Sample: B-3 (4'-5') **Lab ID: 7573252011** Collected: 08/31/17 17:15 Received: 09/06/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	34.4	mg/kg	5.6	1	09/13/17 10:30	09/14/17 22:35		
Surrogates								
a-Pinene (S)	33	%	10-87	1	09/13/17 10:30	09/14/17 22:35		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	22.3	mg/kg	5.6	1	09/13/17 10:30	09/14/17 08:34		N2
Surrogates								
a-Pinene (S)	36	%	17-70	1	09/13/17 10:30	09/14/17 08:34		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	11.3	1	09/13/17 00:00	09/13/17 20:26		
Surrogates								
4-Bromofluorobenzene (S)	93	%	64-122	1	09/13/17 00:00	09/13/17 20:26	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0023	1	09/06/17 15:00	09/07/17 08:08	71-43-2	
Ethylbenzene	ND	mg/kg	0.0023	1	09/06/17 15:00	09/07/17 08:08	100-41-4	
Toluene	ND	mg/kg	0.0023	1	09/06/17 15:00	09/07/17 08:08	108-88-3	
Xylene (Total)	ND	mg/kg	0.0068	1	09/06/17 15:00	09/07/17 08:08	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	116	%	70-130	1	09/06/17 15:00	09/07/17 08:08	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1	09/06/17 15:00	09/07/17 08:08	460-00-4	
Toluene-d8 (S)	98	%	70-130	1	09/06/17 15:00	09/07/17 08:08	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	11.4	%		1		09/12/17 15:29		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	ND	mg/kg	111	10	09/09/17 14:00	09/11/17 01:05	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Sample: B-3 (14'-15') **Lab ID: 7573252012** Collected: 08/31/17 17:15 Received: 09/06/17 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	ND	mg/kg	5.3	1	09/13/17 10:30	09/14/17 08:08		CH
Surrogates								
a-Pinene (S)	20	%.	10-87	1	09/13/17 10:30	09/14/17 08:08		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	8.9	mg/kg	5.3	1	09/13/17 10:30	09/14/17 08:08		N2
Surrogates								
a-Pinene (S)	25	%.	17-70	1	09/13/17 10:30	09/14/17 08:08		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.6	1	09/13/17 00:00	09/13/17 21:20		
Surrogates								
4-Bromofluorobenzene (S)	107	%	64-122	1	09/13/17 00:00	09/13/17 21:20	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0021	1	09/06/17 15:00	09/07/17 08:32	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	09/06/17 15:00	09/07/17 08:32	100-41-4	
Toluene	ND	mg/kg	0.0021	1	09/06/17 15:00	09/07/17 08:32	108-88-3	
Xylene (Total)	ND	mg/kg	0.0064	1	09/06/17 15:00	09/07/17 08:32	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%.	70-130	1	09/06/17 15:00	09/07/17 08:32	17060-07-0	
4-Bromofluorobenzene (S)	103	%.	70-130	1	09/06/17 15:00	09/07/17 08:32	460-00-4	
Toluene-d8 (S)	98	%.	70-130	1	09/06/17 15:00	09/07/17 08:32	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	6.3	%		1		09/12/17 15:29		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	209	mg/kg	106	10	09/09/17 14:00	09/11/17 01:20	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

QC Batch:	493355	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	7573252001, 7573252002, 7573252003		

METHOD BLANK: 2018560 Matrix: Solid

Associated Lab Samples: 7573252001, 7573252002, 7573252003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	09/08/17 16:22	
4-Bromofluorobenzene (S)	%	96	64-122	09/08/17 16:22	

LABORATORY CONTROL SAMPLE: 2018561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	54.2	108	85-130	
4-Bromofluorobenzene (S)	%			95	64-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2018562 2018563

Parameter	Units	7573254001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	63.5	63.5	72.1	69.2	105	100	85-125	4	12	
4-Bromofluorobenzene (S)	%						112	93	64-122			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

QC Batch:	494070	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	7573252004, 7573252005, 7573252006, 7573252007, 7573252008, 7573252009, 7573252010, 7573252011, 7573252012		

METHOD BLANK:	2021068	Matrix:	Solid
Associated Lab Samples:	7573252004, 7573252005, 7573252006, 7573252007, 7573252008, 7573252009, 7573252010, 7573252011, 7573252012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	09/13/17 14:41	
4-Bromofluorobenzene (S)	%	101	64-122	09/13/17 14:41	

LABORATORY CONTROL SAMPLE: 2021069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	53.9	108	85-130	
4-Bromofluorobenzene (S)	%			115	64-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2021070 2021071

Parameter	Units	7573252004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	52.8	52.8	53.5	56.5	96	102	85-125	6	12	
4-Bromofluorobenzene (S)	%						112	94	64-122			

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QUALITY CONTROL DATA

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

QC Batch:	83147	Analysis Method:	EPA 8260
QC Batch Method:	EPA 5030 Low	Analysis Description:	8260 MSV Soil Low Level
Associated Lab Samples:	7573252002, 7573252003, 7573252004, 7573252005, 7573252006, 7573252007, 7573252008, 7573252009, 7573252010, 7573252011, 7573252012		

METHOD BLANK: 366155 Matrix: Solid
Associated Lab Samples: 7573252002, 7573252003, 7573252004, 7573252005, 7573252006, 7573252007, 7573252008, 7573252009, 7573252010, 7573252011, 7573252012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0020	09/06/17 17:12	
Ethylbenzene	mg/kg	ND	0.0020	09/06/17 17:12	
Toluene	mg/kg	ND	0.0020	09/06/17 17:12	
Xylene (Total)	mg/kg	ND	0.0060	09/06/17 17:12	
1,2-Dichloroethane-d4 (S)	%.	109	70-130	09/06/17 17:12	
4-Bromofluorobenzene (S)	%.	104	70-130	09/06/17 17:12	
Toluene-d8 (S)	%.	98	70-130	09/06/17 17:12	

LABORATORY CONTROL SAMPLE: 366156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.02	0.022	108	74-130	
Ethylbenzene	mg/kg	.02	0.021	108	77-127	
Toluene	mg/kg	.02	0.021	104	74-127	
Xylene (Total)	mg/kg	.06	0.062	104	74-128	
1,2-Dichloroethane-d4 (S)	%.			106	70-130	
4-Bromofluorobenzene (S)	%.			101	70-130	
Toluene-d8 (S)	%.			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 366157 366158

Parameter	Units	7573160001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	mg/kg	ND	.023	.023	0.022	0.021	95	90	32-152	5	20	
Ethylbenzene	mg/kg	ND	.023	.023	0.021	0.020	89	84	18-166	7	20	
Toluene	mg/kg	ND	.023	.023	0.021	0.019	90	84	18-166	8	20	
Xylene (Total)	mg/kg	0.026	.07	.07	0.068	0.065	61	56	10-172	5	20	
1,2-Dichloroethane-d4 (S)	%.						110	109	70-130			
4-Bromofluorobenzene (S)	%.						105	104	70-130			
Toluene-d8 (S)	%.						100	100	70-130			

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QUALITY CONTROL DATA

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

QC Batch:	83201	Analysis Method:	EPA 8260
QC Batch Method:	EPA 5030 Low	Analysis Description:	8260 MSV Soil Low Level
Associated Lab Samples:	7573252001		

METHOD BLANK: 366385 Matrix: Solid

Associated Lab Samples: 7573252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0020	09/07/17 05:40	
Ethylbenzene	mg/kg	ND	0.0020	09/07/17 05:40	
Toluene	mg/kg	ND	0.0020	09/07/17 05:40	
Xylene (Total)	mg/kg	ND	0.0060	09/07/17 05:40	
1,2-Dichloroethane-d4 (S)	%.	96	70-130	09/07/17 05:40	
4-Bromofluorobenzene (S)	%.	101	70-130	09/07/17 05:40	
Toluene-d8 (S)	%.	96	70-130	09/07/17 05:40	

LABORATORY CONTROL SAMPLE: 366386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.02	0.017	87	74-130	
Ethylbenzene	mg/kg	.02	0.018	90	77-127	
Toluene	mg/kg	.02	0.018	90	74-127	
Xylene (Total)	mg/kg	.06	0.054	90	74-128	
1,2-Dichloroethane-d4 (S)	%.			97	70-130	
4-Bromofluorobenzene (S)	%.			103	70-130	
Toluene-d8 (S)	%.			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 366387 366388

Parameter	Units	7573252001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	mg/kg	ND	.022	.022	0.016	0.017	73	76	32-152	4	20	
Ethylbenzene	mg/kg	ND	.022	.022	0.012	0.012	54	56	18-166	3	20	
Toluene	mg/kg	ND	.022	.022	0.015	0.015	67	69	18-166	4	20	
Xylene (Total)	mg/kg	ND	.066	.067	0.034	0.035	52	53	10-172	3	20	
1,2-Dichloroethane-d4 (S)	%.						94	94	70-130			
4-Bromofluorobenzene (S)	%.						107	105	70-130			
Toluene-d8 (S)	%.						99	99	70-130			

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QUALITY CONTROL DATA

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

QC Batch:	83396	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015B
Associated Lab Samples: 7573252001, 7573252002, 7573252003			

METHOD BLANK: 367392 Matrix: Solid

Associated Lab Samples: 7573252001, 7573252002, 7573252003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	4.9	09/12/17 18:29	1t
a-Pinene (S)	%.	24	10-87	09/12/17 18:29	

LABORATORY CONTROL SAMPLE: 367393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics	mg/kg	50	33.0	66	42-124	
a-Pinene (S)	%.			14	10-87	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 367394 367395

Parameter	Units	7573351001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Range Organics	mg/kg	80.4	54.4	54.4	158	133	143	97	10-172	17	20	
a-Pinene (S)	%.						21	20	10-87			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

QC Batch:	83454	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015B
Associated Lab Samples:	7573252004, 7573252005, 7573252006, 7573252007, 7573252008, 7573252009, 7573252010, 7573252011, 7573252012		

METHOD BLANK:	367542	Matrix:	Solid
Associated Lab Samples:	7573252004, 7573252005, 7573252006, 7573252007, 7573252008, 7573252009, 7573252010, 7573252011, 7573252012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	3.3	09/14/17 03:25	CH
a-Pinene (S)	%.	35	10-87	09/14/17 03:25	

LABORATORY CONTROL SAMPLE: 367543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics	mg/kg	33.1	26.4	80	42-124	
a-Pinene (S)	%.			50	10-87	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 367544 367545

Parameter	Units	7573252004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Range Organics	mg/kg	ND	52.6	52.5	41.9	37.0	73	64	10-172	12	20	
a-Pinene (S)	%.						40	32	10-87			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

QC Batch: 83399 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 3546 Analysis Description: EPA 8015 ORO
Associated Lab Samples: 7573252001, 7573252002, 7573252003

METHOD BLANK: 367396 Matrix: Solid

Associated Lab Samples: 7573252001, 7573252002, 7573252003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil Range Organics	mg/kg	ND	4.9	09/12/17 16:46	N2
a-Pinene (S)	%.	35	17-70	09/12/17 16:46	

LABORATORY CONTROL SAMPLE: 367397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil Range Organics	mg/kg	49.8	40.1	81	48-145	N2
a-Pinene (S)	%.			41	17-70	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 367398 367399

Parameter	Units	7573254005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Oil Range Organics	mg/kg	2050	1010	1000	2140	2580	9	53	10-196	18	40	M3,N2
a-Pinene (S)	%.						53	58	17-70			

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QUALITY CONTROL DATA

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

QC Batch: 83455 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 3546 Analysis Description: EPA 8015 ORO
Associated Lab Samples: 7573252004, 7573252005, 7573252006, 7573252007, 7573252008, 7573252009, 7573252010, 7573252011, 7573252012

METHOD BLANK: 367546 Matrix: Solid
Associated Lab Samples: 7573252004, 7573252005, 7573252006, 7573252007, 7573252008, 7573252009, 7573252010, 7573252011, 7573252012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil Range Organics	mg/kg	ND	3.3	09/14/17 14:46	N2
α-Pinene (S)	%.	33	17-70	09/14/17 14:46	

LABORATORY CONTROL SAMPLE: 367547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil Range Organics	mg/kg	33.2	24.8	75	48-145	N2
α-Pinene (S)	%.			44	17-70	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 367548 367549

Parameter	Units	7573252004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Oil Range Organics	mg/kg	9.3	105	105	89.1	83.9	76	71	10-196	6	40	N2
α-Pinene (S)	%.						37	32	17-70			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

QC Batch:	83517	Analysis Method:	ASTM D2974-07
QC Batch Method:	ASTM D2974-07	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	7573252001, 7573252002, 7573252003, 7573252004, 7573252005, 7573252006, 7573252007, 7573252008, 7573252009, 7573252010, 7573252011, 7573252012		

SAMPLE DUPLICATE: 367769

Parameter	Units	7573252001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.1	9.2	2	20	

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QUALITY CONTROL DATA

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

QC Batch:	493416	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	7573252001, 7573252002, 7573252003, 7573252004, 7573252005, 7573252006, 7573252007, 7573252008, 7573252009, 7573252010, 7573252011, 7573252012		

METHOD BLANK: 2018822 Matrix: Solid
Associated Lab Samples: 7573252001, 7573252002, 7573252003, 7573252004, 7573252005, 7573252006, 7573252007, 7573252008, 7573252009, 7573252010, 7573252011, 7573252012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	09/12/17 08:44	

LABORATORY CONTROL SAMPLE: 2018823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	464	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2018824 2018825

Parameter	Units	7573254021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	ND	628	645	621	635	88	88	80-120	2	15	

MATRIX SPIKE SAMPLE: 2018826

Parameter	Units	7573254022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	ND	545	556	90	80-120	

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QUALIFIERS

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

LABORATORIES

PASI-D Pace Analytical Services - Dallas

ANALYTE QUALIFIERS

1t	The ending continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7573252001	B-1 (0'-1')	EPA 3546	83396	EPA 8015B	83503
7573252002	B-1 (2'-3')	EPA 3546	83396	EPA 8015B	83503
7573252003	B-1 (4'-5')	EPA 3546	83396	EPA 8015B	83503
7573252004	B-1 (14'-15')	EPA 3546	83454	EPA 8015B	83620
7573252005	B-2 (0'-1')	EPA 3546	83454	EPA 8015B	83620
7573252006	B-2 (2'-3')	EPA 3546	83454	EPA 8015B	83620
7573252007	B-2 (4'-5')	EPA 3546	83454	EPA 8015B	83620
7573252008	B-2 (14'-15')	EPA 3546	83454	EPA 8015B	83620
7573252009	B-3 (0'-1')	EPA 3546	83454	EPA 8015B	83620
7573252010	B-3 (2'-3')	EPA 3546	83454	EPA 8015B	83620
7573252011	B-3 (4'-5')	EPA 3546	83454	EPA 8015B	83620
7573252012	B-3 (14'-15')	EPA 3546	83454	EPA 8015B	83620
7573252001	B-1 (0'-1')	EPA 3546	83399	EPA 8015B Modified	83504
7573252002	B-1 (2'-3')	EPA 3546	83399	EPA 8015B Modified	83504
7573252003	B-1 (4'-5')	EPA 3546	83399	EPA 8015B Modified	83504
7573252004	B-1 (14'-15')	EPA 3546	83455	EPA 8015B Modified	83621
7573252005	B-2 (0'-1')	EPA 3546	83455	EPA 8015B Modified	83621
7573252006	B-2 (2'-3')	EPA 3546	83455	EPA 8015B Modified	83621
7573252007	B-2 (4'-5')	EPA 3546	83455	EPA 8015B Modified	83621
7573252008	B-2 (14'-15')	EPA 3546	83455	EPA 8015B Modified	83621
7573252009	B-3 (0'-1')	EPA 3546	83455	EPA 8015B Modified	83621
7573252010	B-3 (2'-3')	EPA 3546	83455	EPA 8015B Modified	83621
7573252011	B-3 (4'-5')	EPA 3546	83455	EPA 8015B Modified	83621
7573252012	B-3 (14'-15')	EPA 3546	83455	EPA 8015B Modified	83621
7573252001	B-1 (0'-1')	EPA 5035A/5030B	493355	EPA 8015B	494028
7573252002	B-1 (2'-3')	EPA 5035A/5030B	493355	EPA 8015B	494028
7573252003	B-1 (4'-5')	EPA 5035A/5030B	493355	EPA 8015B	494028
7573252004	B-1 (14'-15')	EPA 5035A/5030B	494070	EPA 8015B	494081
7573252005	B-2 (0'-1')	EPA 5035A/5030B	494070	EPA 8015B	494081
7573252006	B-2 (2'-3')	EPA 5035A/5030B	494070	EPA 8015B	494081
7573252007	B-2 (4'-5')	EPA 5035A/5030B	494070	EPA 8015B	494081
7573252008	B-2 (14'-15')	EPA 5035A/5030B	494070	EPA 8015B	494081
7573252009	B-3 (0'-1')	EPA 5035A/5030B	494070	EPA 8015B	494081
7573252010	B-3 (2'-3')	EPA 5035A/5030B	494070	EPA 8015B	494081
7573252011	B-3 (4'-5')	EPA 5035A/5030B	494070	EPA 8015B	494081
7573252012	B-3 (14'-15')	EPA 5035A/5030B	494070	EPA 8015B	494081
7573252001	B-1 (0'-1')	EPA 5030 Low	83201	EPA 8260	83211
7573252002	B-1 (2'-3')	EPA 5030 Low	83147	EPA 8260	83178
7573252003	B-1 (4'-5')	EPA 5030 Low	83147	EPA 8260	83178
7573252004	B-1 (14'-15')	EPA 5030 Low	83147	EPA 8260	83178
7573252005	B-2 (0'-1')	EPA 5030 Low	83147	EPA 8260	83178
7573252006	B-2 (2'-3')	EPA 5030 Low	83147	EPA 8260	83178
7573252007	B-2 (4'-5')	EPA 5030 Low	83147	EPA 8260	83178
7573252008	B-2 (14'-15')	EPA 5030 Low	83147	EPA 8260	83178
7573252009	B-3 (0'-1')	EPA 5030 Low	83147	EPA 8260	83178

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00957/COP MCA Battery1

Pace Project No.: 7573252

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7573252010	B-3 (2'-3')	EPA 5030 Low	83147	EPA 8260	83178
7573252011	B-3 (4'-5')	EPA 5030 Low	83147	EPA 8260	83178
7573252012	B-3 (14'-15')	EPA 5030 Low	83147	EPA 8260	83178
7573252001	B-1 (0-1')	ASTM D2974-07	83517		
7573252002	B-1 (2'-3')	ASTM D2974-07	83517		
7573252003	B-1 (4'-5')	ASTM D2974-07	83517		
7573252004	B-1 (14'-15')	ASTM D2974-07	83517		
7573252005	B-2 (0-1')	ASTM D2974-07	83517		
7573252006	B-2 (2'-3')	ASTM D2974-07	83517		
7573252007	B-2 (4'-5')	ASTM D2974-07	83517		
7573252008	B-2 (14'-15')	ASTM D2974-07	83517		
7573252009	B-3 (0-1')	ASTM D2974-07	83517		
7573252010	B-3 (2'-3')	ASTM D2974-07	83517		
7573252011	B-3 (4'-5')	ASTM D2974-07	83517		
7573252012	B-3 (14'-15')	ASTM D2974-07	83517		
7573252001	B-1 (0-1')	EPA 300.0	493416	EPA 300.0	493857
7573252002	B-1 (2'-3')	EPA 300.0	493416	EPA 300.0	493542
7573252003	B-1 (4'-5')	EPA 300.0	493416	EPA 300.0	493542
7573252004	B-1 (14'-15')	EPA 300.0	493416	EPA 300.0	493542
7573252005	B-2 (0-1')	EPA 300.0	493416	EPA 300.0	493542
7573252006	B-2 (2'-3')	EPA 300.0	493416	EPA 300.0	493542
7573252007	B-2 (4'-5')	EPA 300.0	493416	EPA 300.0	493542
7573252008	B-2 (14'-15')	EPA 300.0	493416	EPA 300.0	493542
7573252009	B-3 (0-1')	EPA 300.0	493416	EPA 300.0	493542
7573252010	B-3 (2'-3')	EPA 300.0	493416	EPA 300.0	493857
7573252011	B-3 (4'-5')	EPA 300.0	493416	EPA 300.0	493542
7573252012	B-3 (14'-15')	EPA 300.0	493416	EPA 300.0	493542

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt	Document Revised: 7/25/16 Page 1 of 1
	Document No.: F-DAL-C-001-rev.06	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☒ Dallas ☐ Ft Worth ☐ San Angelo

Client Name: Tetra Tech Project Work order:

WO#: 7573252



7573252

Courier: FedEX ☒ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other: _____

Tracking#: 7420 8979 0186

Custody Seal on Cooler/Box: Yes ☒ No ☐ Seals Intact: Yes ☒ No ☐ NA ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: IR-C54 Type of Ice: Wet ☒ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☒

Cooler Temp °C: 0.2 (Recorded) +0.2 (Correction Factor) 0.4 (Actual) Temp should be above freezing to 6°C

Chain of Custody Present	Yes ☒ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☒ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☒ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☒ NA ☐	4
Sample received within HT	Yes ☒ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☒ NA ☐	6
Rush TAT requested	Yes ☐ No ☒ NA ☐	7
Sufficient Volume received	Yes ☒ No ☐ NA ☐	8
Correct Container used	Yes ☒ No ☐ NA ☐	9
Pace Container used	Yes ☒ No ☐ NA ☐	
Container Intact	Yes ☒ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☒	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☒	12
Sample labels match COC	Yes ☒ No ☐ NA ☐	13
Include date/time/ID/analyses Matrix: <u>Solid</u>		
All containers needing preservation have been checked	Yes ☐ No ☐ NA ☒	14a. Lot# of pH strip: _____ Original pH: <□ or >□ 2□ 9□ 12□ or received Neutral ☐ Lot# of Iodine strip: _____ Lot# of Lead Acetate strip: _____
Do containers require preservation at the lab	Yes ☐ No ☐ NA ☒	14b. Preservation: _____ Lot# and adjusted pH: _____ pH<2 ☐ pH>9 ☐ pH>12 ☐
All containers needing preservation are found to be in Compliance with EPA recommendation	Yes ☐ No ☐ NA ☒	14c.
Exception: VOA, coliform, O&G	Yes ☐ No ☒	
Are soil samples (volatiles) received in Bulk ☒ Terracore ☐ EnCore ☐ NA ☐		15.
Trip Blank present	Yes ☐ No ☒ NA ☐	16.
Trip Blank Custody Seals Intact	Yes ☐ No ☐ NA ☒	
Pace Trip Blank Lot# (if purchased): _____		
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☒	17.
Project sampled in USDA Regulated Area:	Yes ☒ No ☒ NA ☐	18. List State _____

Client Notification/Resolution/Comments:

TMS
9/10/17

Person Contacted: _____

Date: _____

Comments/Resolution: _____

Person Examining Contents: _____

TMS

Date: 9/10/17

Project Manager Review: _____

mm



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

7573252

Client Name:	ConocoPhillips	Site Manager:	Greg Pope
Project Name:	COP MCA Battery 1		
Project Location: (county, state)	Lea Co, New Mexico	Project #:	212C-MD-00957
Invoice to:	Tetra Tech, Inc.		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	
Comments:			

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold		
		YEAR:		WATER	SOIL		HCL	HNO ₃	ICE																											
		DATE	TIME																																	
001	B-1 (0-1')	8/31/2017	15:50		X				X			1		X	X																					
002	B-1 (2'-3')	8/31/2017	15:50		X					X			1		X	X													X							
003	B-1 (4'-5')	8/31/2017	15:50		X					X			1		X	X													X							
004	B-1 (14'-15')	8/31/2017	15:50		X					X			1		X	X													X							
005	B-2 (0-1')	8/31/2017	16:30		X					X			1		X	X													X							
006	B-2 (2'-3')	8/31/2017	16:30		X					X			1		X	X													X							
007	B-2 (4'-5')	8/31/2017	16:30		X					X			1		X	X													X							
008	B-2 (14'-15')	8/31/2017	16:30		X					X			1		X	X													X							
009	B-3 (0-1')	8/31/2017	17:15		X					X			1		X	X													X							
010	B-3 (2'-3')	8/31/2017	17:15		X					X			1		X	X													X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>[Signature]</i>	9/5/17	17:00	Daniel Palmer	9/6/17	0925
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
Sample Temperature CS4 0.40	Standard TAT ☐ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY



4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

- 573252

[illegible]

ORIGINAL COPY



Sample Condition Upon Receipt

WO#: 60252633



60252633

Client Name:

PFE Dallas

Courier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #:

Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: T-266 / T-239 Type of Ice: Wet Blue ☐ None ☐

Cooler Temperature (°C): As-read 3.5 Corr. Factor CF 0.0 / CF +0.3 Corrected 3.5

Date and initials of person examining contents: JB9/7

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A
Short Hold Time analyses (<72hr):	☐ Yes ☒ No ☐ N/A
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A
Sufficient volume:	☒ Yes ☐ No ☐ N/A
Correct containers used:	☒ Yes ☐ No ☐ N/A
Pace containers used:	☒ Yes ☐ No ☐ N/A
Containers intact:	☒ Yes ☐ No ☐ N/A
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐ Yes ☐ No ☒ N/A
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A
Sample labels match COC: Date / time / ID / analyses	☒ Yes ☐ No ☐ N/A
Samples contain multiple phases? Matrix: <u>SL</u>	☐ Yes ☒ No ☐ N/A
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	☐ Yes ☐ No ☒ N/A
Cyanide water sample checks: ☒ N/A	
Lead acetate strip turns dark? (Record only)	☐ Yes ☐ No
Potassium iodide test strip turns blue/purple? (Preserve)	☐ Yes ☐ No
Trip Blank present:	☐ Yes ☐ No ☒ N/A
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☒ N/A
Samples from USDA Regulated Area: State: <u>NM</u>	☐ Yes ☒ No ☐ N/A
Additional labels attached to 5035A / TX1005 vials in the field?	☐ Yes ☐ No ☒ N/A

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Project Manager Review:

Jm

Date:

9/7/17

Pace Analytical
www.pacelabs.com

Results Requested By: 9/15/2017

Pace Analytical Kansas
9608 Loiret Blvd.
Lenexa, KS 66219
Phone (913)599-5665

Transfers	Released By	Date/Time	Received By	Date/Time
1	McLachlan	9-6-17 1500	[Signature]	9/2/17 0945
2		9-6-17		
3				

Cooler Temperature on Receipt 715 °C

Custody Seal ☒ or ☐ N

Received on Ice

This chain of custody is considered complete as is since this information is available in the owner laboratory.