October 19, 2015 Reference No. 089467

David C. Hathaway, P.E.
ConocoPhillips
Program Manager
1380-E POB
315 Johnstone Ave.
Bartlesville, OK 74004
Email: David.C.Hathaway@cop.com

Re: Initial Soil Assessment Report
Vacuum Abo Battery #3 Release
6 miles SW of Buckeye Road and NM-483 Intersection
Lovington, New Mexico

Mr. Hathaway:

Transmitted within this letter is a summary of the sampling activities and laboratory results conducted at the ConocoPhillips Vacuum ABO Battery #3 (Site) in response to the above-referenced crude oil and produced water release on March 04, 2015.

1. Introduction

ConocoPhillips (COP) personnel indicated that a release of approximately 2,137 barrels (bbl) of produced water and 34 bbl of crude oil occurred on March 04, 2015. The location of the Site is at Section 34, Township 17S; Range 35E as presented on Figure 1. An aerial photograph of the Site and surrounding area is presented as Figure 2. The release was reported to the New Mexico Oil Conservation District (NMOCD) on March 04, 2015 and initial response activities were initiated by COP. The release resulted from the overflow of a tank located within the earthen containment area. The released liquids overflowed the containment area and flowed onto the ground surface in the immediate vicinity of the tank battery as depicted on the Figure 3.

2. Regulatory Framework

Based on information available on the Petroleum Recovery Research Center (PRRC) Mapping Portal, the depth to groundwater in the vicinity of the Site is approximately 103-feet bgs. The nearest private domestic water source is greater than 200-feet; the nearest public/municipal water source is greater than 1,000-feet from the release site; and the release site lies more than 1,000 horizontal feet from the nearest surface water body. The NMOCD has established the Recommended Remediation Action Levels (RRALs) for benzene, total benzene, toluene, ethylbenzene, and xylenes (BTEX), and total

petroleum hydrocarbons (TPH) resulting from spills of produced natural gas liquids and presented in the Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. Remediation levels for benzene, total BTEX and TPH were calculated using the following NMOCD criteria:

New Mexico Oil Conservation Division Site Assessment	
Ranking Criteria	***Score***
Depth to Ground Water (>100-feet)	0
Wellhead Protection Area (> 1000-feet from water source, > 200-feet from domestic source)	0
Distance to Surface Body Water (>1000 horizontal feet)	0
Ranking Criteria Total Score	**0***
Because the ranking criteria total score is (0), NMOCD established RRALs are 10 mg/kg for benzene, and 50 mg/kg for benzene, toluene, ethylbenzene, and xylene (BTEX), 5000 mg/kg TPH (GRO + DRO), and 500 mg/kg for chlorides[1].	

The following site-specific RRALs have been applied to the Site based on the Ranking Criteria Score of zero:

Benzene: 10 mg/kg
Total BTEX: 50 mg/kg
TPH: 5,000 mg/kg
Chlorides: 500 mg/kg

3. Initial Soil Sampling Activities

In August 2015, GHD personnel collected soil samples from 46 boreholes (advanced via hand auger) to delineate TPH and chloride affected soil in the spill area. The locations of the boreholes/sample locations are illustrated on Figure 3.

Representative soil samples were placed in laboratory provided containers, which were immediately labeled, sealed, and stored in a cooler containing ice. A separate aliquot of each sample was placed in a sealed bag and allowed to equilibrate to ambient temperature. The atmosphere within the sealed bag was subsequently screened for presence of volatile organic compounds (VOCs) with a photoionization detector (PID). The soil was also inspected for olfactory and visual evidence of impacts. The samples were shipped under chain-of-custody to Pace Analysis in Lenexa, Kansas for analysis.

Selected samples were submitted for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) by analytical method EPA Method 8260, TPH DRO and TPH GRO by Method 8015, and

chloride by EPA Method 9056. Copies of the certified analytical results as well as chain of custody documentation are provided in Appendix A, and a summary of soil sample analytical results is presented on Table 1. Summary analytical data for TPH and chloride are illustrated in Figures 4 and 5, respectively.

4. Laboratory Results

Laboratory results for samples collected during the delineation efforts were compared to the NMOCD Site-specific RRALs indicate the following:

- Concentrations of Benzene in soils did not meet or exceed the NMOCD Protection Limits of 10 mg/kg.
- Concentrations of BTEX in soils did not meet or exceed the NMOCD Protection Limits of 50 mg/kg.
- Concentrations of Total TPH GRO and DRO in soils exceed the NMOCD Protection Limits of 5,000 mg/kg in 16 of the 65 total samples collected.
- Concentrations of Chlorides in soils exceed the NMOCD Protection Limits of 500 mg/kg in 53 of the 65 total samples collected.

5. Conclusions Results

A review of laboratory results from the initial soil assessment activities indicates that the horizontal extent of hydrocarbon affected soils appears to be delineated; however, additional vertical delineation is warranted in several locations including the areas inside the earthen containment berms. Based on the volume of liquids released, laboratory results decreasing with depth, and on-site observations, it is anticipated that vertical delineation can be achieved simultaneous with hydrocarbon affected soil excavation and removal. A workplan will be prepared and submitted to the NMOCD outlining the proposed remedial activities.

Should you have any questions regarding the results please contact Moshghan Mansoori or Phil Hurley at (972) 331-8500.

Sincerely,

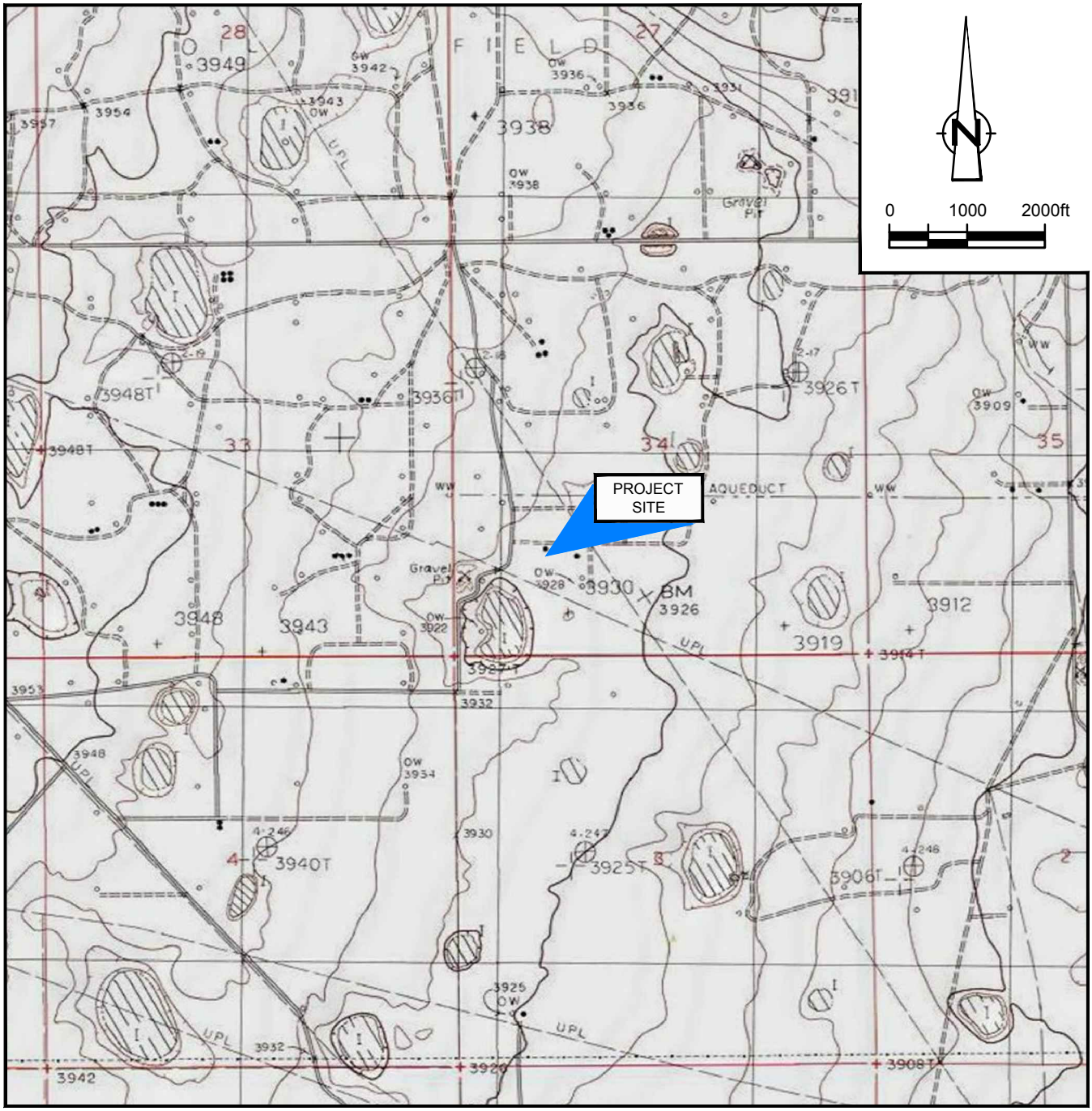
GHD

Moshghan Mansoori
Senior Project Manager

Philip Hurley
Senior Geologist and Principal

MM/cd/1

Encl. Figure 1-5, Table 1, Appendix A



SOURCE: USGS 7.5 MINUTE QUAD
"LOVINGTON SW, NEW MEXICO"

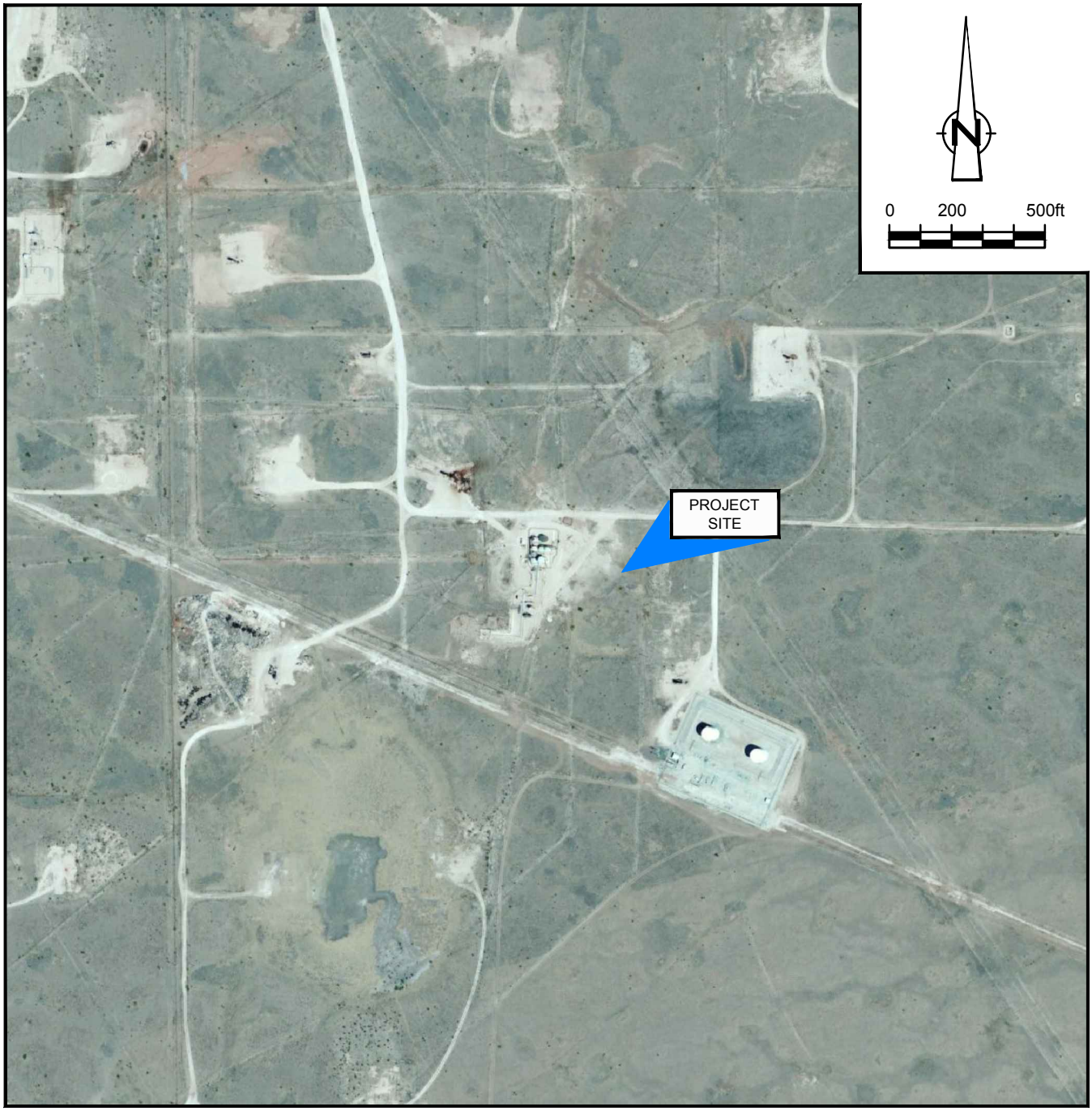
LAT/LONG: 32.788° NORTH, 103.45° WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO EAST

figure 1

SITE LOCATION MAP
VACUUM ABO BATTERY #3
LEA COUNTY, NEW MEXICO
ConocoPhillips Company

GHD

089467-00(003)GN-DL001 SEP 24/2015



LAT/LONG: 32.788° NORTH, 103.45° WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO EAST

figure 2

SITE AERIAL PHOTOGRAPH
VACUUM ABO BATTERY #3
LEA COUNTY, NEW MEXICO
ConocoPhillips Company

GHD

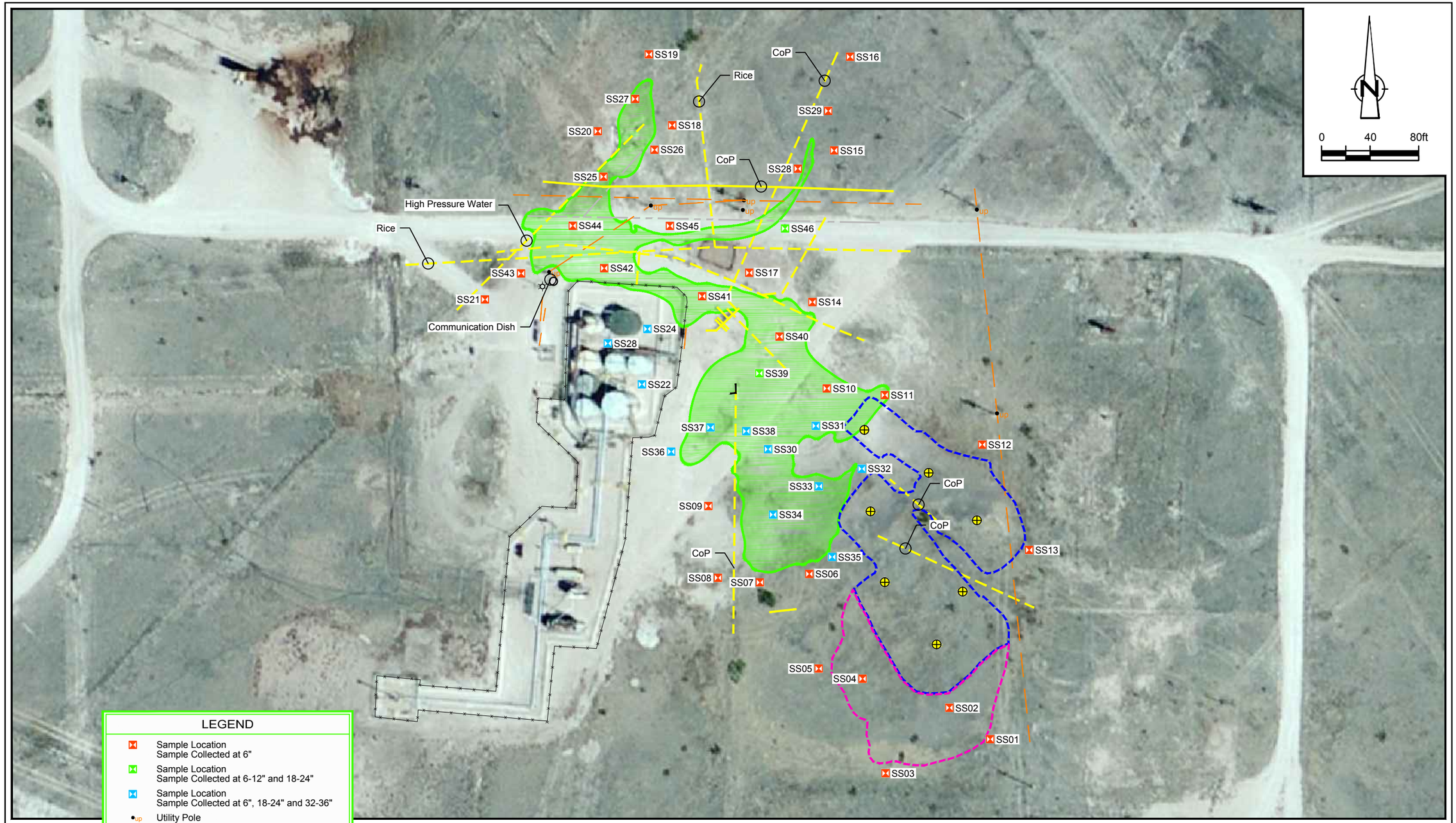
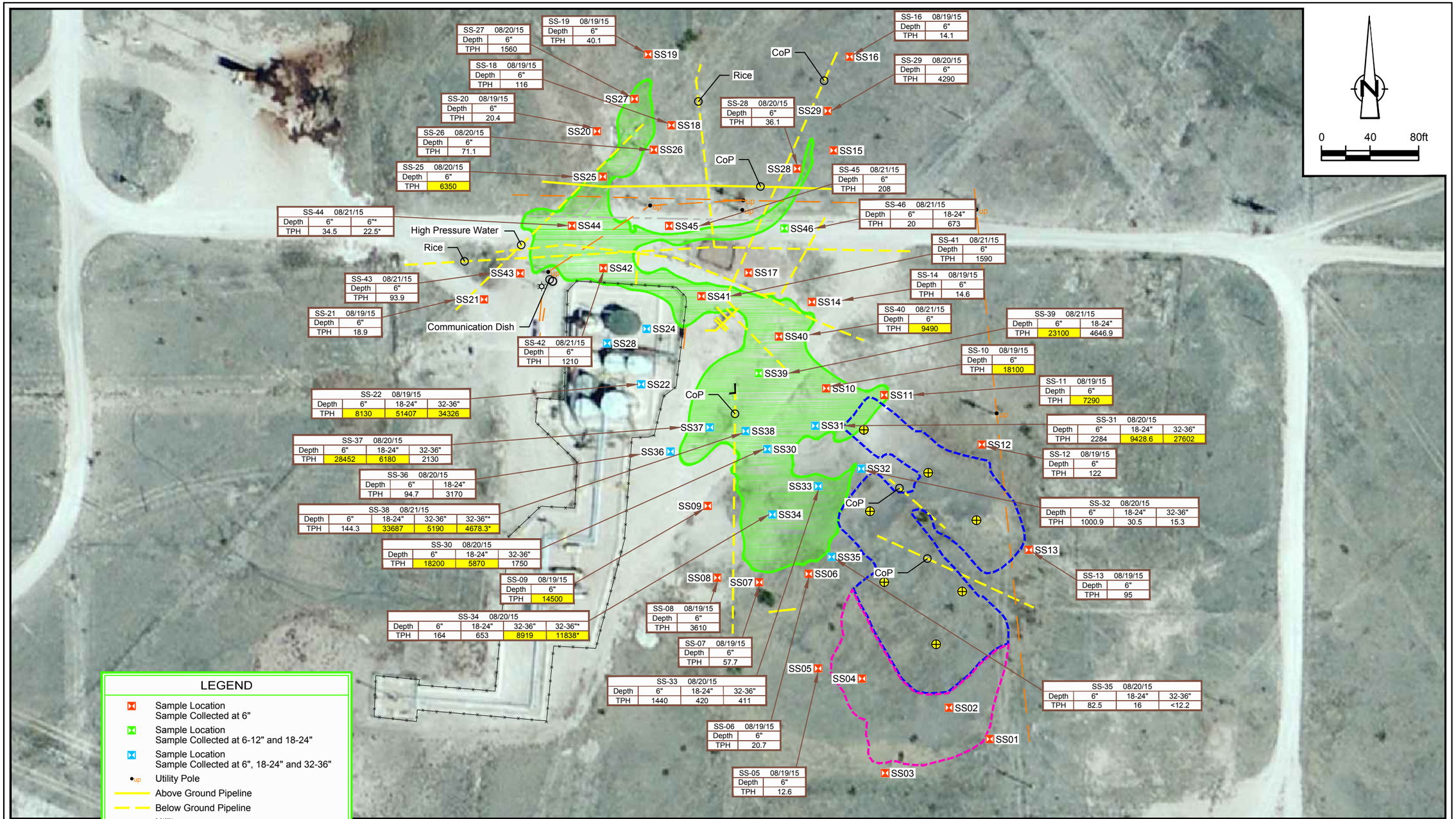


figure 3

SITE DETAILS MAP
VACUUM ABO BATTERY #3
LEA COUNTY, NEW MEXICO
ConocoPhillips Company

089467-00(003)GN-DL001 OCT 14/2015

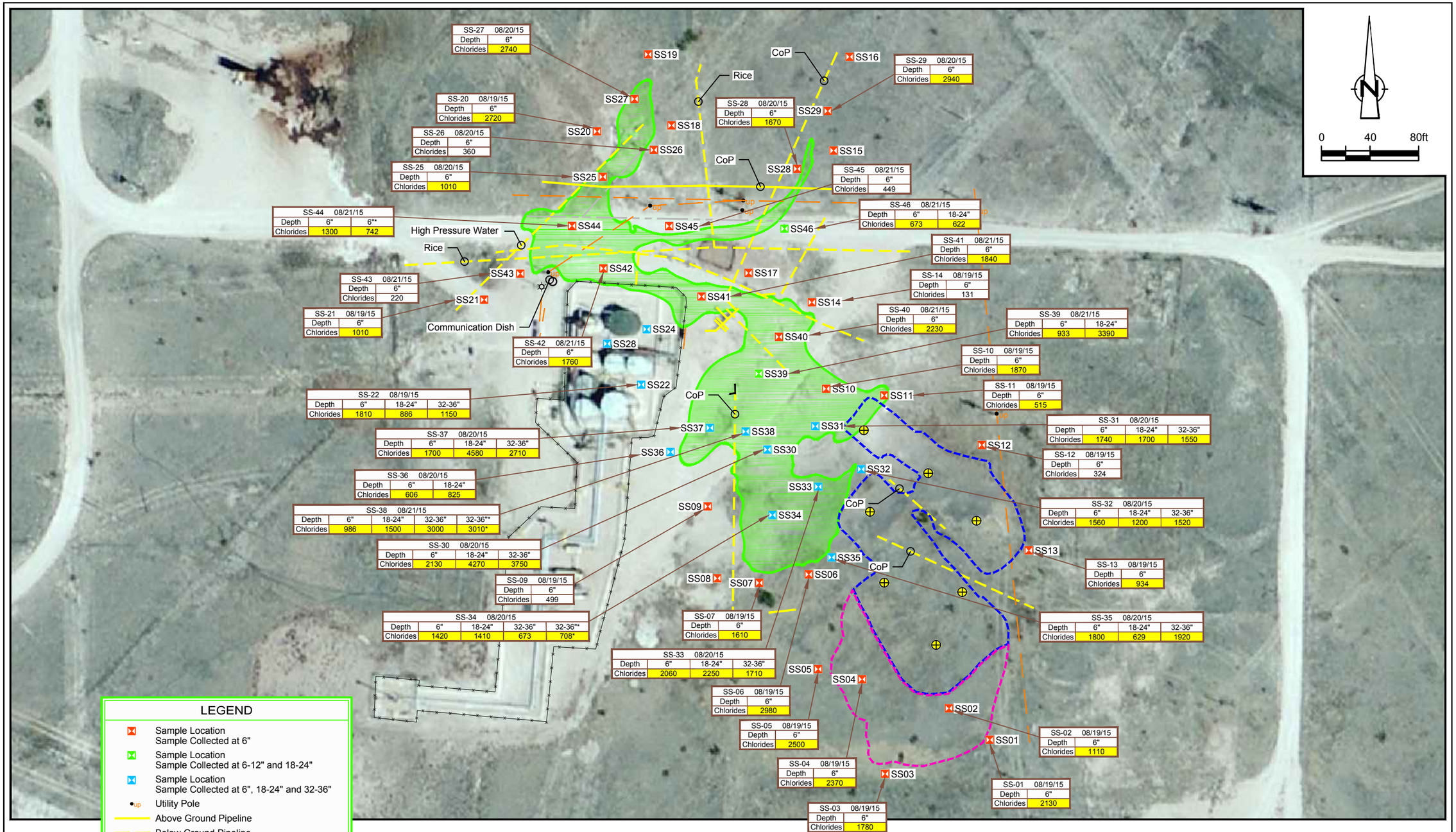


NOTES:

1. All analytical results reported in (mg/kg) milligrams per kilogram.
2. Highlighted cells indicate concentrations exceeding guidance RRALs.

figure 4

SOIL ANALYTICAL MAP - TPH (TOTAL PETROLEUM HYDROCARBONS)
VACUUM ABO BATTERY #3
LEA COUNTY, NEW MEXICO
ConocoPhillips Company



LEGEND

- Sample Location — Sample Collected at 6"
- Sample Location — Sample Collected at 6-12" and 18-24"
- Sample Location — Sample Collected at 6", 18-24" and 32-36"
- up — Utility Pole
- Above Ground Pipeline
- Below Ground Pipeline
- Utility
- Paint Marked Line
- Fence Line
- Approximate Release Affected Area
- Approximate Area Excavated to 1 foot
- Approximate Area Excavated to 6 inches
- Depth — Depth of Sample (ft)

NOTES:

1. All analytical results reported in (mg/kg) milligrams per kilogram.
2. Highlighted cells indicate concentrations exceeding guidance RRALs.

figure 5

SOIL ANALYTICAL MAP - CHLORIDES
VACUUM ABO BATTERY #3
LEA COUNTY, NEW MEXICO
ConocoPhillips Company

Table 1

Soil Analytical Summary
ABO Reef Gathering System (AB TN9)
Lea County, New Mexico

Sample ID	Depth (bgs)	Sample Date	Benzene	Toluene	Ethyl-Benzene	Xylenes	Total BTEX	TPH (EPA 8015B)			Chlorides
								GRO	DRO	(GRO+DRO)	
NMOCD Recommended Remediation Action Levels			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**5000**	**500**
			(mg/kg)	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**
SS01	6"	8/19/15	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<10.5	<10.6	<10.6	**2130**
SS02	6"	8/19/15	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<11.8	<11.8	<11.8	**1110**
SS03	6"	8/19/15	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<11.5	<11.1	<11.5	**1780**
SS04	6"	8/19/15	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<12.5	<12.2	<12.5	**2370**
SS05	6"	8/19/15	<0.006	<0.006	<0.006	<0.006	<0.006	<12.1	**12.6**	**12.6**	**2500**
SS06	6"	8/19/15	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<13.0	**20.7**	**20.7**	**2980**
SS07	6"	8/19/15	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<12.5	**57.7**	**57.7**	**1610**
SS08	6"	8/19/15	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<10.9	**3610**	**3610**	<108
SS09	6"	8/19/15	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<11.4	**14500**	**14500**	**499**
SS10	6"	8/19/15	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<11.7	**18100**	**18100**	**1870**
SS11	6"	8/19/15	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<11.3	**7290**	**7290**	**515**
SS12	6"	8/19/15	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<10.8	**122**	**122**	**324**
SS13	6"	8/19/15	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<11.3	**95**	**95**	**934**
SS14	6"	8/19/15	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<10.6	**14.6**	**14.6**	**131**
SS15	6"	8/19/15	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<10.5	<10.4	<10.5	<103
SS16	6"	8/19/15	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<10.6	**14.1**	**14.1**	<103
SS17	6"	8/19/15	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<11.2	<11.1	<11.2	<112
SS18	6"	8/19/15	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<10.4	**116**	**116**	<103
SS19	6"	8/19/15	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<10.7	**40.1**	**40.1**	<108
SS20	6"	8/19/15	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<10.8	**20.4**	**20.4**	**2720**
SS21	6"	8/19/15	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<10.7	**18.9**	**18.9**	**1010**
SS22	6"	8/20/15	<0.288	<0.288	<0.288	<0.288	<0.288	<11.4	**8130**	**8130**	**1810**
	18-24"	8/20/15	<0.287	<0.287	**2.29**	**1.99**	**4.28**	**107**	**51300**	**51407**	**886**
	32-36"	8/20/15	<0.295	<0.295	**2.65**	**2.12**	**4.77**	**126**	**34200**	**34326**	**1150**
SS23			Unable to Sample Inside Tank Battery								
SS24			Unable to Sample Inside Tank Battery								
SS25	6"	8/20/15	<0.306	**0.806**	**5.72**	**9.43**	**15.506**	**390.0**	**5960**	**6350**	**1010**
SS26	6"	8/20/15	<0.006	<0.006	<0.006	<0.006	<0.006	**16.8**	**54.3**	**71.1**	**360**
SS27	6"	8/20/15	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<11.0	**1560**	**1560**	**2740**
SS28	6"	8/20/15	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<11.3	**36.1**	**36.1**	**1670**
SS29	6"	8/20/15	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<11.4	**4290**	**4290**	**2940**
SS30	6"	8/20/15	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<11.6	**18200**	**18200**	**2130**
	18-24"	8/20/15	<0.0059	<0.0059	**0.0162**	<0.0059	**0.0162**	<11.7	**5870**	**5870**	**4270**
	32-36"	8/20/15	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<11.4	**1750**	**1750**	**3750**
SS31	6"	8/20/15	**0.718**	**0.387**	**1.63**	**1.84**	**4.575**	**64.6**	**2220**	**2284.6**	**1740**
	18-24"	8/20/15	<0.311	<0.311	**0.648**	<0.311	**0.648**	**28.6**	**9400**	**9428.6**	**1700**
	32-36"	8/20/15	**1.08**	<0.306	**2.41**	**1.09**	**2.58**	**102.0**	**27500**	**27602**	**1550**
SS32	6"	8/20/15	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	**18.9**	**982**	**1000.9**	**1560**
	18-24"	8/20/15	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<12.3	**30.5**	**30.5**	**1200**
	32-36"	8/20/15	<0.006	<0.006	<0.006	<0.006	<0.006	<12.1	**15.3**	**15.3**	**1520**
SS33	6"	8/20/15	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<12.3	**1440**	**1440**	**2060**
	18-24"	8/20/15	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<11.7	**420**	**420**	**2250**
	32-36"	8/20/15	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<11.3	**411**	**411**	**1710**
SS34	6"	8/20/15	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<12.9	**164**	**164**	**1420**
	18-24"	8/20/15	<0.0065	<0.0065	**0.0138**	<0.0065	**0.0138**	<12.7	**653**	**653**	**1410**
	32-36"	8/20/15	<0.294	<0.294	**11.5**	**22.3**	**33.8**	**439.0**	**8480**	**8919**	**673**
DUP02	32-36"	8/20/15	<0.288	<0.288	**16.8**	**31.8**	**48.6**	**638.0**	**11200**	**11838**	**708**

Table 1

Soil Analytical Summary
ABO Reef Gathering System (AB TN9)
Lea County, New Mexico

Sample ID	Depth (bgs)	Sample Date	Benzene	Toluene	Ethyl-Benzene	Xylenes	Total BTEX	TPH (EPA 8015B)			Chlorides
								GRO	DRO	(GRO+DRO)	
NMOCD Recommended Remediation Action Levels			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**5000**	**500**
			(mg/kg)	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**
SS35	6"	8/20/15	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<13.5	**82.5**	**82.5**	**1800**
	18-24"	8/20/15	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<12.7	**16**	**16**	**629**
	32-36"	8/20/15	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<12.2	<12.1	<12.2	**1920**
SS36	6"	8/20/15	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<11.2	**94.7**	**94.7**	**606**
	18-24"	8/20/15	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<11.6	**3170**	**3170**	**825**
SS37	6"	8/20/15	<0.275	**2.08**	**1.00**	**2.14**	**5.22**	**52.1**	**28400**	**28452**	**1700**
	18-24"	8/20/15	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<12.3	**6180**	**6180**	**4580**
	32-36"	8/20/15	<0.006	<0.006	<0.006	<0.006	<0.006	<12.1	**2130**	**2130**	**2710**
SS38	6"	8/21/15	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	**14.3**	**130**	**144.3**	**986**
	18-24"	8/21/15	**0.442**	<0.303	**0.874**	**0.318**	**1.634**	**87.8**	**33600**	**33687**	**1500**
	32-36"	8/21/15	<0.303	<0.303	**2.68**	**1.58**	**4.26**	**80.0**	**5110**	**5190**	**3000**
DUP01	32-36"	8/20/15	<0.302	<0.302	**2.47**	**1.46**	**3.93**	**38.3**	**4640**	**4678.3**	**3010**
SS39	6"	8/21/15	0.012	<0.0058	<0.0058	<0.0058	0.012	<11.4	**23100**	**23100**	**933**
	18-24"	8/21/15	<0.313	<0.313	<0.313	<0.313	<0.313	**16.9**	**4630**	**4646.9**	**3390**
SS40	6"	8/21/15	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<11.4	**9490**	**9490**	**2230**
SS41	6"	8/21/15	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<11.7	**1590**	**1590**	**1840**
SS42	6"	8/21/15	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<11.3	**1210**	**1210**	**1760**
SS43	6"	8/21/15	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<11.4	**93.9**	**93.9**	**220**
SS44	6"	8/21/15	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<12.3	**34.5**	**34.5**	**1300**
DUP03	6"	8/21/15	<0.006	<0.006	<0.006	<0.006	<0.006	<12.2	**22.5**	**22.5**	**742**
SS45	6"	8/21/15	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<10.9	**208**	**208**	**449**
SS46	6"	8/21/15	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<11.4	**20**	**20**	**673**
	18-24"	8/21/15	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<11.6	**27.8**	**27.8**	**622**

Notes:
1. All analytical results reported in (mg/kg) milligrams per kilogram
2. Chloride analyses by Method EPA 9056
3. BTEX analysis by Method EPA 8260
4. TPH analysis by Method EPA 8015B
5. Highlighted cells indicate concentrations exceeding guidance RRALs
6. RRALs from NMOCD (September 2011 Draft) Release Guidance Document
7. bgs - below ground surface
8. '--' indicates sample was not analyzed
9. < indicates below laboratory Reporting Limit (RL)
10. (SB) indicates Soil Borings; (SS) indicates Soil Sample; (SW) indicates Side Wall

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

September 02, 2015

Moshghan Mansoori
GHD Services, Inc.
1755 Wittington Place
Suite 500
Dallas, TX 75234

RE: Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Dear Moshghan Mansoori:
Enclosed are the analytical results for sample(s) received by the laboratory on August 22, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Alice Flanagan
alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, GHD Services, Inc.

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

CERTIFICATIONS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

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

SAMPLE SUMMARY

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60201209001	**089467-081915-MM-SS01(6")**	Solid	08/19/15 10:30	08/22/15 08:25
60201209002	**089467-081915-MM-SS02(6")**	Solid	08/19/15 10:45	08/22/15 08:25
60201209003	**089467-081915-MM-SS03(6")**	Solid	08/19/15 11:05	08/22/15 08:25
60201209004	**089467-081915-MM-SS04(6")**	Solid	08/19/15 11:15	08/22/15 08:25
60201209005	**089467-081915-MM-SS05(6")**	Solid	08/19/15 11:30	08/22/15 08:25
60201209006	**089467-081915-MM-SS06(6")**	Solid	08/19/15 11:45	08/22/15 08:25
60201209007	**089467-081915-MM-SS07(6")**	Solid	08/19/15 12:00	08/22/15 08:25
60201209008	**089467-081915-MM-SS08(6")**	Solid	08/19/15 12:15	08/22/15 08:25
60201209009	**089467-081915-MM-SS09(6")**	Solid	08/19/15 12:20	08/22/15 08:25
60201209010	**089467-081915-MM-SS10(6")**	Solid	08/19/15 13:10	08/22/15 08:25
60201209011	**089467-081915-MM-SS11(6")**	Solid	08/19/15 13:25	08/22/15 08:25
60201209012	**089467-081915-MM-SS12(6")**	Solid	08/19/15 13:35	08/22/15 08:25
60201209013	**089467-081915-MM-SS13(6")**	Solid	08/19/15 13:40	08/22/15 08:25
60201209014	**089467-081915-MM-SS14(6")**	Solid	08/19/15 14:10	08/22/15 08:25
60201209015	**089467-081915-MM-SS15(6")**	Solid	08/19/15 14:25	08/22/15 08:25
60201209016	**089467-081915-MM-SS16(6")**	Solid	08/19/15 14:35	08/22/15 08:25
60201209017	**089467-081915-MM-SS17(6")**	Solid	08/19/15 14:55	08/22/15 08:25
60201209018	**089467-081915-MM-SS18(6")**	Solid	08/19/15 15:10	08/22/15 08:25
60201209019	**089467-081915-MM-SS19(6")**	Solid	08/19/15 15:20	08/22/15 08:25
60201209020	**089467-081915-MM-SS20(6")**	Solid	08/19/15 15:35	08/22/15 08:25
60201209021	**089467-081915-MM-SS21(6")**	Solid	08/19/15 15:55	08/22/15 08:25
60201209022	**089467-082015-MM-SS35(6")**	Solid	08/20/15 08:15	08/22/15 08:25
60201209023	**089467-082015-MM-SS35(18-24")**	Solid	08/20/15 08:20	08/22/15 08:25
60201209024	**089467-082015-MM-SS35(32-36")**	Solid	08/20/15 08:25	08/22/15 08:25
60201209025	**089467-082015-MM-SS34(6")**	Solid	08/20/15 08:40	08/22/15 08:25
60201209026	**089467-082015-MM-SS34(18-24")**	Solid	08/20/15 08:45	08/22/15 08:25
60201209027	**089467-082015-MM-SS34(32-36")**	Solid	08/20/15 08:50	08/22/15 08:25
60201209028	**089467-082015-MM-SS32(6")**	Solid	08/20/15 09:00	08/22/15 08:25
60201209029	**089467-082015-MM-SS32(18-24")**	Solid	08/20/15 09:05	08/22/15 08:25
60201209030	**089467-082015-MM-SS32(32-36")**	Solid	08/20/15 09:10	08/22/15 08:25
60201209031	**089467-082015-MM-SS31(6")**	Solid	08/20/15 09:25	08/22/15 08:25
60201209032	**089467-082015-MM-SS31(18-24")**	Solid	08/20/15 09:30	08/22/15 08:25
60201209033	**089467-082015-MM-SS31(32-36")**	Solid	08/20/15 09:35	08/22/15 08:25
60201209034	**089467-082015-MM-SS30(6")**	Solid	08/20/15 09:55	08/22/15 08:25
60201209035	**089467-082015-MM-SS30(18-24")**	Solid	08/20/15 10:00	08/22/15 08:25
60201209036	**089467-082015-MM-SS30(32-36")**	Solid	08/20/15 10:05	08/22/15 08:25
60201209037	**089467-082015-MM-SS33(6")**	Solid	08/20/15 10:50	08/22/15 08:25

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60201209038	089467-082015-MM-SS33(18-24")	Solid	08/20/15 10:55	08/22/15 08:25
60201209039	089467-082015-MM-SS33(32-36")	Solid	08/20/15 11:00	08/22/15 08:25
60201209040	089467-082015-MM-SS22(6")	Solid	08/20/15 11:25	08/22/15 08:25
60201209041	089467-082015-MM-SS22(18-24")	Solid	08/20/15 11:30	08/22/15 08:25
60201209042	089467-082015-MM-SS22(32-36")	Solid	08/20/15 11:35	08/22/15 08:25
60201209043	089467-082015-MM-SS25(6")	Solid	08/20/15 12:10	08/22/15 08:25
60201209044	089467-082015-MM-SS26(6")	Solid	08/20/15 13:10	08/22/15 08:25
60201209045	089467-082015-MM-SS27(6")	Solid	08/20/15 13:20	08/22/15 08:25
60201209046	089467-082015-MM-SS28(6")	Solid	08/20/15 13:45	08/22/15 08:25
60201209047	089467-082015-MM-SS29(6")	Solid	08/20/15 13:55	08/22/15 08:25
60201209048	089467-082015-MM-SS36(6")	Solid	08/20/15 14:45	08/22/15 08:25
60201209049	089467-082015-MM-SS36(18-24")	Solid	08/20/15 14:50	08/22/15 08:25
60201209050	089467-082015-MM-SS37(6")	Solid	08/20/15 15:05	08/22/15 08:25
60201209051	089467-082015-MM-SS37(18-24")	Solid	08/20/15 15:10	08/22/15 08:25
60201209052	089467-082015-MM-SS37(32-36")	Solid	08/20/15 15:15	08/22/15 08:25
60201209053	089467-082015-MM-DUP02	Solid	08/20/15 08:00	08/22/15 08:25
60201209054	089467-082115-MM-SS38(6")	Solid	08/21/15 07:15	08/22/15 08:25
60201209055	089467-082115-MM-SS38(18-24")	Solid	08/21/15 07:20	08/22/15 08:25
60201209056	089467-082115-MM-SS38(32-36")	Solid	08/21/15 07:35	08/22/15 08:25
60201209057	089467-082115-MM-SS39(6")	Solid	08/21/15 08:15	08/22/15 08:25
60201209058	089467-082115-MM-SS39(18-24")	Solid	08/21/15 08:20	08/22/15 08:25
60201209059	089467-082115-MM-SS40(6")	Solid	08/21/15 08:40	08/22/15 08:25
60201209060	089467-082115-MM-SS46(6")	Solid	08/21/15 09:00	08/22/15 08:25
60201209061	089467-082115-MM-SS46(18-24")	Solid	08/21/15 09:05	08/22/15 08:25
60201209062	089467-082115-MM-SS41(6")	Solid	08/21/15 09:20	08/22/15 08:25
60201209063	089467-082115-MM-SS42(6")	Solid	08/21/15 09:50	08/22/15 08:25
60201209064	089467-082115-MM-SS43(6")	Solid	08/21/15 10:15	08/22/15 08:25
60201209065	089467-082115-MM-SS44(6")	Solid	08/21/15 10:45	08/22/15 08:25
60201209066	089467-082115-MM-SS45(6")	Solid	08/21/15 10:55	08/22/15 08:25
60201209067	089467-082115-MM-DUP01	Solid	08/21/15 08:00	08/22/15 08:25
60201209068	089467-082115-MM-DUP03	Solid	08/21/15 08:00	08/22/15 08:25
60201209069	TRIP BLANK 1	Solid	08/21/15 08:00	08/22/15 08:25
60201209070	TRIP BLANK 2	Solid	08/21/15 08:00	08/22/15 08:25

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

SAMPLE ANALYTE COUNT

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60201209001	**089467-081915-MM-SS01(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209002	**089467-081915-MM-SS02(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209003	**089467-081915-MM-SS03(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209004	**089467-081915-MM-SS04(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209005	**089467-081915-MM-SS05(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209006	**089467-081915-MM-SS06(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209007	**089467-081915-MM-SS07(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209008	**089467-081915-MM-SS08(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2

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

SAMPLE ANALYTE COUNT

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209009	**089467-081915-MM-SS09(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209010	**089467-081915-MM-SS10(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209011	**089467-081915-MM-SS11(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209012	**089467-081915-MM-SS12(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209013	**089467-081915-MM-SS13(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209014	**089467-081915-MM-SS14(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209015	**089467-081915-MM-SS15(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 9056	AJM	1
60201209016	**089467-081915-MM-SS16(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209017	**089467-081915-MM-SS17(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209018	**089467-081915-MM-SS18(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209019	**089467-081915-MM-SS19(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209020	**089467-081915-MM-SS20(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209021	**089467-081915-MM-SS21(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209022	**089467-082015-MM-SS35(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209023	**089467-082015-MM-SS35(18-24")**	EPA 8015B	ACW	3

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

SAMPLE ANALYTE COUNT

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209024	**089467-082015-MM-SS35(32-36")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209025	**089467-082015-MM-SS34(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209026	**089467-082015-MM-SS34(18-24")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209027	**089467-082015-MM-SS34(32-36")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209028	**089467-082015-MM-SS32(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209029	**089467-082015-MM-SS32(18-24")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209030	**089467-082015-MM-SS32(32-36")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7

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

SAMPLE ANALYTE COUNT

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209031	**089467-082015-MM-SS31(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209032	**089467-082015-MM-SS31(18-24")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209033	**089467-082015-MM-SS31(32-36")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209034	**089467-082015-MM-SS30(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209035	**089467-082015-MM-SS30(18-24")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209036	**089467-082015-MM-SS30(32-36")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209037	**089467-082015-MM-SS33(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1

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

SAMPLE ANALYTE COUNT

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60201209038	**089467-082015-MM-SS33(18-24")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209039	**089467-082015-MM-SS33(32-36")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209040	**089467-082015-MM-SS22(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209041	**089467-082015-MM-SS22(18-24")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209042	**089467-082015-MM-SS22(32-36")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209043	**089467-082015-MM-SS25(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209044	**089467-082015-MM-SS26(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209045	**089467-082015-MM-SS27(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2

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

SAMPLE ANALYTE COUNT

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209046	**089467-082015-MM-SS28(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209047	**089467-082015-MM-SS29(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209048	**089467-082015-MM-SS36(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209049	**089467-082015-MM-SS36(18-24")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209050	**089467-082015-MM-SS37(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209051	**089467-082015-MM-SS37(18-24")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209052	**089467-082015-MM-SS37(32-36")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1

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

SAMPLE ANALYTE COUNT

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 9056	AJM	1
60201209053	**089467-082015-MM-DUP02**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209054	**089467-082115-MM-SS38(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209055	**089467-082115-MM-SS38(18-24")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209056	**089467-082115-MM-SS38(32-36")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209057	**089467-082115-MM-SS39(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209058	**089467-082115-MM-SS39(18-24")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209059	**089467-082115-MM-SS40(6")**	EPA 8015B	JDH	3
		EPA 8015B	JTK	2
		EPA 8260	JKL	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209060	**089467-082115-MM-SS46(6")**	EPA 8015B	JDH	3

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

SAMPLE ANALYTE COUNT

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209061	**089467-082115-MM-SS46(18-24")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209062	**089467-082115-MM-SS41(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209063	**089467-082115-MM-SS42(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209064	**089467-082115-MM-SS43(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209065	**089467-082115-MM-SS44(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209066	**089467-082115-MM-SS45(6")**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209067	**089467-082115-MM-DUP01**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7

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

SAMPLE ANALYTE COUNT

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		ASTM D2974	DWC	1
		EPA 9056	AJM	1
60201209068	**089467-082115-MM-DUP03**	EPA 8015B	ACW	3
		EPA 8015B	JTK	2
		EPA 8260	TJT	7
		ASTM D2974	DWC	1
		EPA 9056	AJM	1

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

PROJECT NARRATIVE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: GHD Services_COP TX
Date: September 02, 2015

General Information:
68 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/50864

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- 089467-081915-MM-SS08(6") (Lab ID: 60201209008)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-081915-MM-SS09(6") (Lab ID: 60201209009)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-081915-MM-SS10(6") (Lab ID: 60201209010)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-081915-MM-SS11(6") (Lab ID: 60201209011)
  - n-Tetracosane (S)
  - p-Terphenyl (S)

QC Batch: OEXT/50865

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- 089467-082015-MM-SS22(6") (Lab ID: 60201209040)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS30(18-24") (Lab ID: 60201209035)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS30(32-36") (Lab ID: 60201209036)
  - n-Tetracosane (S)
  - p-Terphenyl (S)

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

PROJECT NARRATIVE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: GHD Services_COP TX
Date: September 02, 2015

QC Batch: OEXT/50865

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- 089467-082015-MM-SS30(6") (Lab ID: 60201209034)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS31(32-36") (Lab ID: 60201209033)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS32(6") (Lab ID: 60201209028)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS33(6") (Lab ID: 60201209037)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS34(32-36") (Lab ID: 60201209027)
  - n-Tetracosane (S)
  - p-Terphenyl (S)

QC Batch: OEXT/50867

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- 089467-082015-MM-DUP02 (Lab ID: 60201209053)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS22(18-24") (Lab ID: 60201209041)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS22(32-36") (Lab ID: 60201209042)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS25(6") (Lab ID: 60201209043)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS27(6") (Lab ID: 60201209045)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS29(6") (Lab ID: 60201209047)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS36(18-24") (Lab ID: 60201209049)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS37(18-24") (Lab ID: 60201209051)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082015-MM-SS37(32-36") (Lab ID: 60201209052)
  - n-Tetracosane (S)

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

PROJECT NARRATIVE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: GHD Services_COP TX
Date: September 02, 2015

QC Batch: OEXT/50867

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- p-Terphenyl (S)
- 089467-082015-MM-SS37(6") (Lab ID: 60201209050)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082115-MM-SS38(18-24") (Lab ID: 60201209055)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082115-MM-SS38(32-36") (Lab ID: 60201209056)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082115-MM-SS39(18-24") (Lab ID: 60201209058)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082115-MM-SS39(6") (Lab ID: 60201209057)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082115-MM-SS40(6") (Lab ID: 60201209059)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- MS (Lab ID: 1623324)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- MSD (Lab ID: 1623325)
  - n-Tetracosane (S)
  - p-Terphenyl (S)

QC Batch: OEXT/50872

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- 089467-082115-MM-DUP01 (Lab ID: 60201209067)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082115-MM-SS41(6") (Lab ID: 60201209062)
  - n-Tetracosane (S)
  - p-Terphenyl (S)
- 089467-082115-MM-SS42(6") (Lab ID: 60201209063)
  - n-Tetracosane (S)
  - p-Terphenyl (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

PROJECT NARRATIVE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: GHD Services_COP TX
Date: September 02, 2015

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/50867

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60201209041

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1623324)
  - TPH-DRO
- MSD (Lab ID: 1623325)
  - TPH-DRO

Additional Comments:

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

PROJECT NARRATIVE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Method: **EPA 8015B**
Description: Gasoline Range Organics
Client: GHD Services_COP TX
Date: September 02, 2015

General Information:
68 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/5171

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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

PROJECT NARRATIVE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: GHD Services_COP TX
Date: September 02, 2015

General Information:
68 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

QC Batch: MSV/71418

IO: The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.

- 089467-082115-MM-SS39(6") (Lab ID: 60201209057)
  - Toluene-d8 (S)

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/71367

S0: Surrogate recovery outside laboratory control limits.

- 089467-081915-MM-SS09(6") (Lab ID: 60201209009)
  - 4-Bromofluorobenzene (S)
- 089467-081915-MM-SS10(6") (Lab ID: 60201209010)
  - 4-Bromofluorobenzene (S)
- 089467-082015-MM-SS30(6") (Lab ID: 60201209034)
  - 4-Bromofluorobenzene (S)

QC Batch: MSV/71387

S0: Surrogate recovery outside laboratory control limits.

- MS (Lab ID: 1623863)
  - 4-Bromofluorobenzene (S)
- MSD (Lab ID: 1623864)
  - 4-Bromofluorobenzene (S)

S1: Surrogate recovery outside laboratory control limits (confirmed by re-analysis).

- MS (Lab ID: 1623863)
  - Toluene-d8 (S)
- MSD (Lab ID: 1623864)
  - Toluene-d8 (S)

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

PROJECT NARRATIVE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: GHD Services_COP TX
Date: September 02, 2015

QC Batch: MSV/71418

S0: Surrogate recovery outside laboratory control limits.
- 089467-082115-MM-SS39(6") (Lab ID: 60201209057)
  - 4-Bromofluorobenzene (S)

QC Batch: MSV/71453

S1: Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
- 089467-082115-MM-SS40(6") (Lab ID: 60201209059)
  - 4-Bromofluorobenzene (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/71367

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- 089467-082015-MM-SS22(6") (Lab ID: 60201209040)
  - Toluene-d8 (S)

QC Batch: MSV/71387

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- 089467-082115-MM-SS39(18-24") (Lab ID: 60201209058)
  - Toluene-d8 (S)

QC Batch: MSV/71453

1e: The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis.
- 089467-082115-MM-SS40(6") (Lab ID: 60201209059)
  - Toluene-d8 (S)

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

PROJECT NARRATIVE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Method: **EPA 9056**
Description: 9056 IC Anions
Client: GHD Services_COP TX
Date: September 02, 2015

General Information:
68 samples were analyzed for EPA 9056. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 9056 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/35641

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60201209001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1623263)
  - Chloride
- MSD (Lab ID: 1623264)
  - Chloride

QC Batch: WETA/35644

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60201209068

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1623278)
  - Chloride
- MSD (Lab ID: 1623279)
  - Chloride

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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

PROJECT NARRATIVE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Method: **EPA 9056**
Description: 9056 IC Anions
Client: GHD Services_COP TX
Date: September 02, 2015

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS01(6") **Lab ID: 60201209001** Collected: 08/19/15 10:30 Received: 08/22/15 08:25 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							
TPH-DRO	ND	mg/kg	10.6	1	08/26/15 00:00	08/28/15 04:15		
Surrogates								
n-Tetracosane (S)	88	%	18-139	1	08/26/15 00:00	08/28/15 04:15	646-31-1	
p-Terphenyl (S)	84	%	51-120	1	08/26/15 00:00	08/28/15 04:15	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.5	1	08/25/15 00:00	08/25/15 14:40		
Surrogates								
4-Bromofluorobenzene (S)	102	%	68-144	1	08/25/15 00:00	08/25/15 14:40	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.2	1		08/26/15 05:03	71-43-2	
Ethylbenzene	ND	ug/kg	5.2	1		08/26/15 05:03	100-41-4	
Toluene	ND	ug/kg	5.2	1		08/26/15 05:03	108-88-3	
Xylene (Total)	ND	ug/kg	5.2	1		08/26/15 05:03	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	82-137	1		08/26/15 05:03	2037-26-5	
4-Bromofluorobenzene (S)	95	%	82-119	1		08/26/15 05:03	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	81-142	1		08/26/15 05:03	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**5.6**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**2130**	mg/kg	211	20	08/27/15 15:00	08/29/15 10:52	16887-00-6	M1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS02(6") **Lab ID: 60201209002** Collected: 08/19/15 10:45 Received: 08/22/15 08:25 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							
TPH-DRO	ND	mg/kg	11.8	1	08/26/15 00:00	08/28/15 04:23		
Surrogates								
n-Tetracosane (S)	87	%	18-139	1	08/26/15 00:00	08/28/15 04:23	646-31-1	
p-Terphenyl (S)	87	%	51-120	1	08/26/15 00:00	08/28/15 04:23	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.8	1	08/25/15 00:00	08/25/15 15:30		
Surrogates								
4-Bromofluorobenzene (S)	100	%	68-144	1	08/25/15 00:00	08/25/15 15:30	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.8	1		08/26/15 05:49	71-43-2	
Ethylbenzene	ND	ug/kg	5.8	1		08/26/15 05:49	100-41-4	
Toluene	ND	ug/kg	5.8	1		08/26/15 05:49	108-88-3	
Xylene (Total)	ND	ug/kg	5.8	1		08/26/15 05:49	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	82-137	1		08/26/15 05:49	2037-26-5	
4-Bromofluorobenzene (S)	96	%	82-119	1		08/26/15 05:49	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	81-142	1		08/26/15 05:49	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**15.2**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1110**	mg/kg	117	10	08/27/15 15:00	08/28/15 19:40	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS03(6") **Lab ID: 60201209003** Collected: 08/19/15 11:05 Received: 08/22/15 08:25 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							
TPH-DRO	ND	mg/kg	11.1	1	08/26/15 00:00	08/28/15 04:30		
Surrogates								
n-Tetracosane (S)	91	%	18-139	1	08/26/15 00:00	08/28/15 04:30	646-31-1	
p-Terphenyl (S)	87	%	51-120	1	08/26/15 00:00	08/28/15 04:30	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.5	1	08/25/15 00:00	08/25/15 15:46		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/25/15 00:00	08/25/15 15:46	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.8	1		08/26/15 06:04	71-43-2	
Ethylbenzene	ND	ug/kg	5.8	1		08/26/15 06:04	100-41-4	
Toluene	ND	ug/kg	5.8	1		08/26/15 06:04	108-88-3	
Xylene (Total)	ND	ug/kg	5.8	1		08/26/15 06:04	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	82-137	1		08/26/15 06:04	2037-26-5	
4-Bromofluorobenzene (S)	96	%	82-119	1		08/26/15 06:04	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-142	1		08/26/15 06:04	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**12.9**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1780**	mg/kg	113	10	08/27/15 15:00	08/28/15 20:35	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS04(6") **Lab ID: 60201209004** Collected: 08/19/15 11:15 Received: 08/22/15 08:25 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							
TPH-DRO	ND	mg/kg	12.2	1	08/26/15 00:00	08/28/15 04:38		
Surrogates								
n-Tetracosane (S)	93	%	18-139	1	08/26/15 00:00	08/28/15 04:38	646-31-1	
p-Terphenyl (S)	91	%	51-120	1	08/26/15 00:00	08/28/15 04:38	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.5	1	08/25/15 00:00	08/25/15 16:03		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/25/15 00:00	08/25/15 16:03	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.2	1		08/26/15 06:20	71-43-2	
Ethylbenzene	ND	ug/kg	6.2	1		08/26/15 06:20	100-41-4	
Toluene	ND	ug/kg	6.2	1		08/26/15 06:20	108-88-3	
Xylene (Total)	ND	ug/kg	6.2	1		08/26/15 06:20	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	82-137	1		08/26/15 06:20	2037-26-5	
4-Bromofluorobenzene (S)	94	%	82-119	1		08/26/15 06:20	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	81-142	1		08/26/15 06:20	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**19.7**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**2370**	mg/kg	244	20	08/27/15 15:00	08/29/15 11:33	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS05(6") **Lab ID: 60201209005** Collected: 08/19/15 11:30 Received: 08/22/15 08:25 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							
TPH-DRO	**12.6**	mg/kg	11.8	1	08/26/15 00:00	08/28/15 05:00		
Surrogates								
n-Tetracosane (S)	94	%	18-139	1	08/26/15 00:00	08/28/15 05:00	646-31-1	
p-Terphenyl (S)	92	%	51-120	1	08/26/15 00:00	08/28/15 05:00	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.1	1	08/25/15 00:00	08/27/15 15:46		
Surrogates								
4-Bromofluorobenzene (S)	99	%	68-144	1	08/25/15 00:00	08/27/15 15:46	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.0	1		08/26/15 06:35	71-43-2	
Ethylbenzene	ND	ug/kg	6.0	1		08/26/15 06:35	100-41-4	
Toluene	ND	ug/kg	6.0	1		08/26/15 06:35	108-88-3	
Xylene (Total)	ND	ug/kg	6.0	1		08/26/15 06:35	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	82-137	1		08/26/15 06:35	2037-26-5	
4-Bromofluorobenzene (S)	96	%	82-119	1		08/26/15 06:35	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	81-142	1		08/26/15 06:35	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**16.9**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**2500**	mg/kg	241	20	08/27/15 15:00	08/29/15 12:14	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS06(6") **Lab ID: 60201209006** Collected: 08/19/15 11:45 Received: 08/22/15 08:25 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							
TPH-DRO	**20.7**	mg/kg	12.7	1	08/26/15 00:00	08/28/15 05:08		
Surrogates								
n-Tetracosane (S)	97	%	18-139	1	08/26/15 00:00	08/28/15 05:08	646-31-1	
p-Terphenyl (S)	92	%	51-120	1	08/26/15 00:00	08/28/15 05:08	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	13.0	1	08/25/15 00:00	08/27/15 16:02		
Surrogates								
4-Bromofluorobenzene (S)	105	%	68-144	1	08/25/15 00:00	08/27/15 16:02	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.6	1		08/26/15 06:50	71-43-2	
Ethylbenzene	ND	ug/kg	6.6	1		08/26/15 06:50	100-41-4	
Toluene	ND	ug/kg	6.6	1		08/26/15 06:50	108-88-3	
Xylene (Total)	ND	ug/kg	6.6	1		08/26/15 06:50	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	82-137	1		08/26/15 06:50	2037-26-5	
4-Bromofluorobenzene (S)	92	%	82-119	1		08/26/15 06:50	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	81-142	1		08/26/15 06:50	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**22.9**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**2980**	mg/kg	255	20	08/27/15 15:00	08/29/15 12:27	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS07(6") **Lab ID: 60201209007** Collected: 08/19/15 12:00 Received: 08/22/15 08:25 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							
TPH-DRO	**57.7**	mg/kg	12.2	1	08/26/15 00:00	08/28/15 05:16		
Surrogates								
n-Tetracosane (S)	87	%	18-139	1	08/26/15 00:00	08/28/15 05:16	646-31-1	
p-Terphenyl (S)	87	%	51-120	1	08/26/15 00:00	08/28/15 05:16	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.5	1	08/25/15 00:00	08/27/15 16:19		
Surrogates								
4-Bromofluorobenzene (S)	103	%	68-144	1	08/25/15 00:00	08/27/15 16:19	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.2	1		08/26/15 07:06	71-43-2	
Ethylbenzene	ND	ug/kg	6.2	1		08/26/15 07:06	100-41-4	
Toluene	ND	ug/kg	6.2	1		08/26/15 07:06	108-88-3	
Xylene (Total)	ND	ug/kg	6.2	1		08/26/15 07:06	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	82-137	1		08/26/15 07:06	2037-26-5	
4-Bromofluorobenzene (S)	96	%	82-119	1		08/26/15 07:06	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	81-142	1		08/26/15 07:06	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**19.3**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1610**	mg/kg	124	10	08/27/15 15:00	08/28/15 21:30	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS08(6") **Lab ID: 60201209008** Collected: 08/19/15 12:15 Received: 08/22/15 08:25 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							
TPH-DRO	**3610**	mg/kg	1080	100	08/26/15 00:00	09/01/15 13:51		
Surrogates								
n-Tetracosane (S)	0	%	18-139	100	08/26/15 00:00	09/01/15 13:51	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	100	08/26/15 00:00	09/01/15 13:51	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.9	1	08/25/15 00:00	08/27/15 16:36		
Surrogates								
4-Bromofluorobenzene (S)	95	%	68-144	1	08/25/15 00:00	08/27/15 16:36	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.5	1		08/26/15 22:29	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1		08/26/15 22:29	100-41-4	
Toluene	ND	ug/kg	5.5	1		08/26/15 22:29	108-88-3	
Xylene (Total)	ND	ug/kg	5.5	1		08/26/15 22:29	1330-20-7	
Surrogates								
Toluene-d8 (S)	111	%	82-137	1		08/26/15 22:29	2037-26-5	
4-Bromofluorobenzene (S)	82	%	82-119	1		08/26/15 22:29	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	81-142	1		08/26/15 22:29	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**8.8**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	ND	mg/kg	108	10	08/27/15 15:00	08/28/15 21:44	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS09(6") **Lab ID: 60201209009** Collected: 08/19/15 12:20 Received: 08/22/15 08:25 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							
TPH-DRO	**14500**	mg/kg	2240	200	08/26/15 00:00	08/28/15 05:31		
Surrogates								
n-Tetracosane (S)	0	%	18-139	200	08/26/15 00:00	08/28/15 05:31	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	200	08/26/15 00:00	08/28/15 05:31	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.4	1	08/25/15 00:00	08/27/15 16:52		
Surrogates								
4-Bromofluorobenzene (S)	93	%	68-144	1	08/25/15 00:00	08/27/15 16:52	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.8	1		08/26/15 22:44	71-43-2	
Ethylbenzene	ND	ug/kg	5.8	1		08/26/15 22:44	100-41-4	
Toluene	ND	ug/kg	5.8	1		08/26/15 22:44	108-88-3	
Xylene (Total)	ND	ug/kg	5.8	1		08/26/15 22:44	1330-20-7	
Surrogates								
Toluene-d8 (S)	110	%	82-137	1		08/26/15 22:44	2037-26-5	
4-Bromofluorobenzene (S)	81	%	82-119	1		08/26/15 22:44	460-00-4	S0
1,2-Dichloroethane-d4 (S)	109	%	81-142	1		08/26/15 22:44	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**13.0**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**499**	mg/kg	114	10	08/27/15 15:00	08/28/15 21:57	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS10(6") **Lab ID: 60201209010** Collected: 08/19/15 13:10 Received: 08/22/15 08:25 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							
TPH-DRO	**18100**	mg/kg	2330	200	08/26/15 00:00	08/28/15 05:38		
Surrogates								
n-Tetracosane (S)	0	%	18-139	200	08/26/15 00:00	08/28/15 05:38	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	200	08/26/15 00:00	08/28/15 05:38	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.7	1	08/25/15 00:00	08/27/15 17:09		
Surrogates								
4-Bromofluorobenzene (S)	92	%	68-144	1	08/25/15 00:00	08/27/15 17:09	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.8	1		08/26/15 22:59	71-43-2	
Ethylbenzene	ND	ug/kg	5.8	1		08/26/15 22:59	100-41-4	
Toluene	ND	ug/kg	5.8	1		08/26/15 22:59	108-88-3	
Xylene (Total)	ND	ug/kg	5.8	1		08/26/15 22:59	1330-20-7	
Surrogates								
Toluene-d8 (S)	111	%	82-137	1		08/26/15 22:59	2037-26-5	
4-Bromofluorobenzene (S)	79	%	82-119	1		08/26/15 22:59	460-00-4	S0
1,2-Dichloroethane-d4 (S)	107	%	81-142	1		08/26/15 22:59	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**14.7**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1870**	mg/kg	115	10	08/27/15 15:00	08/28/15 22:11	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS11(6") **Lab ID: 60201209011** Collected: 08/19/15 13:25 Received: 08/22/15 08:25 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							
TPH-DRO	**7290**	mg/kg	2270	200	08/26/15 00:00	08/28/15 05:46		
Surrogates								
n-Tetracosane (S)	0	%	18-139	200	08/26/15 00:00	08/28/15 05:46	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	200	08/26/15 00:00	08/28/15 05:46	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.3	1	08/25/15 00:00	08/27/15 17:25		
Surrogates								
4-Bromofluorobenzene (S)	96	%	68-144	1	08/25/15 00:00	08/27/15 17:25	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.7	1		08/26/15 08:07	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1		08/26/15 08:07	100-41-4	
Toluene	ND	ug/kg	5.7	1		08/26/15 08:07	108-88-3	
Xylene (Total)	ND	ug/kg	5.7	1		08/26/15 08:07	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	82-137	1		08/26/15 08:07	2037-26-5	
4-Bromofluorobenzene (S)	94	%	82-119	1		08/26/15 08:07	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	81-142	1		08/26/15 08:07	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**12.2**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**515**	mg/kg	112	10	08/27/15 15:00	08/28/15 22:25	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS12(6") **Lab ID: 60201209012** Collected: 08/19/15 13:35 Received: 08/22/15 08:25 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							
TPH-DRO	**122**	mg/kg	10.8	1	08/26/15 00:00	08/28/15 05:53		
Surrogates								
n-Tetracosane (S)	88	%	18-139	1	08/26/15 00:00	08/28/15 05:53	646-31-1	
p-Terphenyl (S)	86	%	51-120	1	08/26/15 00:00	08/28/15 05:53	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.8	1	08/25/15 00:00	08/27/15 17:42		
Surrogates								
4-Bromofluorobenzene (S)	102	%	68-144	1	08/25/15 00:00	08/27/15 17:42	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.3	1		08/26/15 08:23	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1		08/26/15 08:23	100-41-4	
Toluene	ND	ug/kg	5.3	1		08/26/15 08:23	108-88-3	
Xylene (Total)	ND	ug/kg	5.3	1		08/26/15 08:23	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	82-137	1		08/26/15 08:23	2037-26-5	
4-Bromofluorobenzene (S)	95	%	82-119	1		08/26/15 08:23	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	81-142	1		08/26/15 08:23	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**8.0**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**324**	mg/kg	108	10	08/27/15 15:00	08/28/15 23:06	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS13(6") **Lab ID: 60201209013** Collected: 08/19/15 13:40 Received: 08/22/15 08:25 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							
TPH-DRO	**95.0**	mg/kg	11.1	1	08/26/15 00:00	08/28/15 06:16		
Surrogates								
n-Tetracosane (S)	86	%	18-139	1	08/26/15 00:00	08/28/15 06:16	646-31-1	
p-Terphenyl (S)	84	%	51-120	1	08/26/15 00:00	08/28/15 06:16	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.3	1	08/25/15 00:00	08/27/15 18:32		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/25/15 00:00	08/27/15 18:32	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.7	1		08/26/15 08:38	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1		08/26/15 08:38	100-41-4	
Toluene	ND	ug/kg	5.7	1		08/26/15 08:38	108-88-3	
Xylene (Total)	ND	ug/kg	5.7	1		08/26/15 08:38	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	82-137	1		08/26/15 08:38	2037-26-5	
4-Bromofluorobenzene (S)	96	%	82-119	1		08/26/15 08:38	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	81-142	1		08/26/15 08:38	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**11.3**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**934**	mg/kg	112	10	08/27/15 15:00	08/28/15 23:20	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS14(6") **Lab ID: 60201209014** Collected: 08/19/15 14:10 Received: 08/22/15 08:25 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							
TPH-DRO	**14.6**	mg/kg	10.5	1	08/26/15 00:00	08/28/15 06:24		
Surrogates								
n-Tetracosane (S)	92	%	18-139	1	08/26/15 00:00	08/28/15 06:24	646-31-1	
p-Terphenyl (S)	88	%	51-120	1	08/26/15 00:00	08/28/15 06:24	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.6	1	08/25/15 00:00	08/27/15 18:49		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/25/15 00:00	08/27/15 18:49	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.3	1		08/26/15 08:53	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1		08/26/15 08:53	100-41-4	
Toluene	ND	ug/kg	5.3	1		08/26/15 08:53	108-88-3	
Xylene (Total)	ND	ug/kg	5.3	1		08/26/15 08:53	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	82-137	1		08/26/15 08:53	2037-26-5	
4-Bromofluorobenzene (S)	94	%	82-119	1		08/26/15 08:53	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	81-142	1		08/26/15 08:53	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**5.9**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**131**	mg/kg	107	10	08/27/15 15:00	08/28/15 23:33	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS15(6") **Lab ID: 60201209015** Collected: 08/19/15 14:25 Received: 08/22/15 08:25 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							
TPH-DRO	ND	mg/kg	10.4	1	08/26/15 00:00	08/28/15 06:31		
Surrogates								
n-Tetracosane (S)	88	%	18-139	1	08/26/15 00:00	08/28/15 06:31	646-31-1	
p-Terphenyl (S)	82	%	51-120	1	08/26/15 00:00	08/28/15 06:31	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.5	1	08/25/15 00:00	08/27/15 19:05		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/25/15 00:00	08/27/15 19:05	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.1	1		08/26/15 09:08	71-43-2	
Ethylbenzene	ND	ug/kg	5.1	1		08/26/15 09:08	100-41-4	
Toluene	ND	ug/kg	5.1	1		08/26/15 09:08	108-88-3	
Xylene (Total)	ND	ug/kg	5.1	1		08/26/15 09:08	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	82-137	1		08/26/15 09:08	2037-26-5	
4-Bromofluorobenzene (S)	95	%	82-119	1		08/26/15 09:08	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-142	1		08/26/15 09:08	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**4.5**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	ND	mg/kg	103	10	08/27/15 15:00	08/28/15 23:47	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS16(6") **Lab ID: 60201209016** Collected: 08/19/15 14:35 Received: 08/22/15 08:25 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							
TPH-DRO	**14.1**	mg/kg	10.5	1	08/26/15 00:00	08/28/15 06:39		
Surrogates								
n-Tetracosane (S)	97	%	18-139	1	08/26/15 00:00	08/28/15 06:39	646-31-1	
p-Terphenyl (S)	88	%	51-120	1	08/26/15 00:00	08/28/15 06:39	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.6	1	08/25/15 00:00	08/27/15 19:22		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/25/15 00:00	08/27/15 19:22	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.3	1		08/26/15 09:24	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1		08/26/15 09:24	100-41-4	
Toluene	ND	ug/kg	5.3	1		08/26/15 09:24	108-88-3	
Xylene (Total)	ND	ug/kg	5.3	1		08/26/15 09:24	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	82-137	1		08/26/15 09:24	2037-26-5	
4-Bromofluorobenzene (S)	92	%	82-119	1		08/26/15 09:24	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	81-142	1		08/26/15 09:24	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**5.0**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	ND	mg/kg	103	10	08/27/15 15:00	08/29/15 00:01	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS17(6") **Lab ID: 60201209017** Collected: 08/19/15 14:55 Received: 08/22/15 08:25 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							
TPH-DRO	ND	mg/kg	11.1	1	08/26/15 00:00	08/28/15 06:46		
Surrogates								
n-Tetracosane (S)	86	%	18-139	1	08/26/15 00:00	08/28/15 06:46	646-31-1	
p-Terphenyl (S)	82	%	51-120	1	08/26/15 00:00	08/28/15 06:46	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.2	1	08/25/15 00:00	08/27/15 19:39		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/25/15 00:00	08/27/15 19:39	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.7	1		08/25/15 19:21	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1		08/25/15 19:21	100-41-4	
Toluene	ND	ug/kg	5.7	1		08/25/15 19:21	108-88-3	
Xylene (Total)	ND	ug/kg	5.7	1		08/25/15 19:21	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	82-137	1		08/25/15 19:21	2037-26-5	
4-Bromofluorobenzene (S)	106	%	82-119	1		08/25/15 19:21	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	81-142	1		08/25/15 19:21	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**11.5**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	ND	mg/kg	112	10	08/27/15 15:00	08/29/15 00:14	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS18(6") **Lab ID: 60201209018** Collected: 08/19/15 15:10 Received: 08/22/15 08:25 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							
TPH-DRO	**116**	mg/kg	10.4	1	08/26/15 00:00	08/28/15 06:54		
Surrogates								
n-Tetracosane (S)	88	%	18-139	1	08/26/15 00:00	08/28/15 06:54	646-31-1	
p-Terphenyl (S)	82	%	51-120	1	08/26/15 00:00	08/28/15 06:54	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.4	1	08/25/15 00:00	08/27/15 19:55		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/25/15 00:00	08/27/15 19:55	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.2	1		08/25/15 20:07	71-43-2	
Ethylbenzene	ND	ug/kg	5.2	1		08/25/15 20:07	100-41-4	
Toluene	ND	ug/kg	5.2	1		08/25/15 20:07	108-88-3	
Xylene (Total)	ND	ug/kg	5.2	1		08/25/15 20:07	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	82-137	1		08/25/15 20:07	2037-26-5	
4-Bromofluorobenzene (S)	105	%	82-119	1		08/25/15 20:07	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	81-142	1		08/25/15 20:07	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**4.1**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	ND	mg/kg	103	10	08/27/15 15:00	08/29/15 00:28	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS19(6") **Lab ID: 60201209019** Collected: 08/19/15 15:20 Received: 08/22/15 08:25 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							
TPH-DRO	**40.1**	mg/kg	10.4	1	08/26/15 00:00	08/28/15 07:01		
Surrogates								
n-Tetracosane (S)	109	%	18-139	1	08/26/15 00:00	08/28/15 07:01	646-31-1	
p-Terphenyl (S)	100	%	51-120	1	08/26/15 00:00	08/28/15 07:01	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.7	1	08/28/15 00:00	08/28/15 14:33		
Surrogates								
4-Bromofluorobenzene (S)	100	%	68-144	1	08/28/15 00:00	08/28/15 14:33	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.3	1		08/25/15 20:22	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1		08/25/15 20:22	100-41-4	
Toluene	ND	ug/kg	5.3	1		08/25/15 20:22	108-88-3	
Xylene (Total)	ND	ug/kg	5.3	1		08/25/15 20:22	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	82-137	1		08/25/15 20:22	2037-26-5	
4-Bromofluorobenzene (S)	110	%	82-119	1		08/25/15 20:22	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	81-142	1		08/25/15 20:22	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**6.9**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	ND	mg/kg	108	10	08/27/15 15:00	08/29/15 00:42	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS20(6") **Lab ID: 60201209020** Collected: 08/19/15 15:35 Received: 08/22/15 08:25 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							
TPH-DRO	**20.4**	mg/kg	10.6	1	08/26/15 00:00	08/28/15 07:09		
Surrogates								
n-Tetracosane (S)	98	%	18-139	1	08/26/15 00:00	08/28/15 07:09	646-31-1	
p-Terphenyl (S)	89	%	51-120	1	08/26/15 00:00	08/28/15 07:09	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.8	1	08/28/15 00:00	08/28/15 15:23		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/28/15 00:00	08/28/15 15:23	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.5	1		08/25/15 20:38	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1		08/25/15 20:38	100-41-4	
Toluene	ND	ug/kg	5.5	1		08/25/15 20:38	108-88-3	
Xylene (Total)	ND	ug/kg	5.5	1		08/25/15 20:38	1330-20-7	
Surrogates								
Toluene-d8 (S)	95	%	82-137	1		08/25/15 20:38	2037-26-5	
4-Bromofluorobenzene (S)	107	%	82-119	1		08/25/15 20:38	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	81-142	1		08/25/15 20:38	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**8.7**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**2720**	mg/kg	219	20	08/27/15 15:00	08/29/15 12:41	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-081915-MM-SS21(6") **Lab ID: 60201209021** Collected: 08/19/15 15:55 Received: 08/22/15 08:25 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							
TPH-DRO	**18.9**	mg/kg	10.6	1	08/26/15 00:00	08/27/15 20:56		
Surrogates								
n-Tetracosane (S)	99	%	18-139	1	08/26/15 00:00	08/27/15 20:56	646-31-1	
p-Terphenyl (S)	90	%	51-120	1	08/26/15 00:00	08/27/15 20:56	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.7	1	08/28/15 00:00	08/28/15 15:40		
Surrogates								
4-Bromofluorobenzene (S)	99	%	68-144	1	08/28/15 00:00	08/28/15 15:40	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.3	1		08/25/15 20:53	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1		08/25/15 20:53	100-41-4	
Toluene	ND	ug/kg	5.3	1		08/25/15 20:53	108-88-3	
Xylene (Total)	ND	ug/kg	5.3	1		08/25/15 20:53	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	82-137	1		08/25/15 20:53	2037-26-5	
4-Bromofluorobenzene (S)	108	%	82-119	1		08/25/15 20:53	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	81-142	1		08/25/15 20:53	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**7.2**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1010**	mg/kg	107	10	08/27/15 16:30	08/29/15 14:17	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS35(6") **Lab ID: 60201209022** Collected: 08/20/15 08:15 Received: 08/22/15 08:25 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							
TPH-DRO	**82.5**	mg/kg	13.4	1	08/26/15 00:00	08/27/15 21:04		
Surrogates								
n-Tetracosane (S)	117	%	18-139	1	08/26/15 00:00	08/27/15 21:04	646-31-1	
p-Terphenyl (S)	97	%	51-120	1	08/26/15 00:00	08/27/15 21:04	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	13.5	1	08/28/15 00:00	08/28/15 15:56		
Surrogates								
4-Bromofluorobenzene (S)	102	%	68-144	1	08/28/15 00:00	08/28/15 15:56	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.7	1		08/25/15 21:08	71-43-2	
Ethylbenzene	ND	ug/kg	6.7	1		08/25/15 21:08	100-41-4	
Toluene	ND	ug/kg	6.7	1		08/25/15 21:08	108-88-3	
Xylene (Total)	ND	ug/kg	6.7	1		08/25/15 21:08	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	82-137	1		08/25/15 21:08	2037-26-5	
4-Bromofluorobenzene (S)	108	%	82-119	1		08/25/15 21:08	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	81-142	1		08/25/15 21:08	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**26.6**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1800**	mg/kg	137	10	08/27/15 16:30	08/29/15 15:26	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS35(18-24") **Lab ID: 60201209023** Collected: 08/20/15 08:20 Received: 08/22/15 08:25 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							
TPH-DRO	**16.0**	mg/kg	12.7	1	08/26/15 00:00	08/27/15 21:11		
Surrogates								
n-Tetracosane (S)	99	%	18-139	1	08/26/15 00:00	08/27/15 21:11	646-31-1	
p-Terphenyl (S)	93	%	51-120	1	08/26/15 00:00	08/27/15 21:11	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.7	1	08/28/15 00:00	08/28/15 16:13		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/28/15 00:00	08/28/15 16:13	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.3	1		08/25/15 21:23	71-43-2	
Ethylbenzene	ND	ug/kg	6.3	1		08/25/15 21:23	100-41-4	
Toluene	ND	ug/kg	6.3	1		08/25/15 21:23	108-88-3	
Xylene (Total)	ND	ug/kg	6.3	1		08/25/15 21:23	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	82-137	1		08/25/15 21:23	2037-26-5	
4-Bromofluorobenzene (S)	107	%	82-119	1		08/25/15 21:23	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	81-142	1		08/25/15 21:23	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**21.7**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**629**	mg/kg	127	10	08/27/15 16:30	08/29/15 15:53	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS35(32-36") **Lab ID: 60201209024** Collected: 08/20/15 08:25 Received: 08/22/15 08:25 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							
TPH-DRO	ND	mg/kg	12.1	1	08/26/15 00:00	08/27/15 21:19		
Surrogates								
n-Tetracosane (S)	88	%	18-139	1	08/26/15 00:00	08/27/15 21:19	646-31-1	
p-Terphenyl (S)	85	%	51-120	1	08/26/15 00:00	08/27/15 21:19	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.2	1	08/28/15 00:00	08/28/15 16:30		
Surrogates								
4-Bromofluorobenzene (S)	104	%	68-144	1	08/28/15 00:00	08/28/15 16:30	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.1	1		08/25/15 21:39	71-43-2	
Ethylbenzene	ND	ug/kg	6.1	1		08/25/15 21:39	100-41-4	
Toluene	ND	ug/kg	6.1	1		08/25/15 21:39	108-88-3	
Xylene (Total)	ND	ug/kg	6.1	1		08/25/15 21:39	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	82-137	1		08/25/15 21:39	2037-26-5	
4-Bromofluorobenzene (S)	99	%	82-119	1		08/25/15 21:39	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	81-142	1		08/25/15 21:39	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**18.4**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1920**	mg/kg	123	10	08/27/15 16:30	08/29/15 16:07	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS34(6") **Lab ID: 60201209025** Collected: 08/20/15 08:40 Received: 08/22/15 08:25 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							
TPH-DRO	**164**	mg/kg	12.5	1	08/26/15 00:00	08/27/15 21:42		
Surrogates								
n-Tetracosane (S)	101	%	18-139	1	08/26/15 00:00	08/27/15 21:42	646-31-1	
p-Terphenyl (S)	90	%	51-120	1	08/26/15 00:00	08/27/15 21:42	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.9	1	08/28/15 00:00	08/28/15 17:20		
Surrogates								
4-Bromofluorobenzene (S)	99	%	68-144	1	08/28/15 00:00	08/28/15 17:20	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.5	1		08/25/15 21:54	71-43-2	
Ethylbenzene	ND	ug/kg	6.5	1		08/25/15 21:54	100-41-4	
Toluene	ND	ug/kg	6.5	1		08/25/15 21:54	108-88-3	
Xylene (Total)	ND	ug/kg	6.5	1		08/25/15 21:54	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	82-137	1		08/25/15 21:54	2037-26-5	
4-Bromofluorobenzene (S)	100	%	82-119	1		08/25/15 21:54	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	81-142	1		08/25/15 21:54	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**22.3**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1420**	mg/kg	126	10	08/27/15 16:30	08/29/15 16:20	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS34(18-24") **Lab ID: 60201209026** Collected: 08/20/15 08:45 Received: 08/22/15 08:25 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							
TPH-DRO	**653**	mg/kg	12.8	1	08/26/15 00:00	08/27/15 21:49		
Surrogates								
n-Tetracosane (S)	111	%	18-139	1	08/26/15 00:00	08/27/15 21:49	646-31-1	
p-Terphenyl (S)	89	%	51-120	1	08/26/15 00:00	08/27/15 21:49	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.7	1	08/28/15 00:00	08/28/15 17:36		
Surrogates								
4-Bromofluorobenzene (S)	100	%	68-144	1	08/28/15 00:00	08/28/15 17:36	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.5	1		08/25/15 22:09	71-43-2	
Ethylbenzene	**13.8**	ug/kg	6.5	1		08/25/15 22:09	100-41-4	
Toluene	ND	ug/kg	6.5	1		08/25/15 22:09	108-88-3	
Xylene (Total)	ND	ug/kg	6.5	1		08/25/15 22:09	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	82-137	1		08/25/15 22:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%	82-119	1		08/25/15 22:09	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-142	1		08/25/15 22:09	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**22.0**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1410**	mg/kg	127	10	08/27/15 16:30	08/29/15 16:34	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS34(32-36") **Lab ID: 60201209027** Collected: 08/20/15 08:50 Received: 08/22/15 08:25 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							
TPH-DRO	**8480**	mg/kg	234	20	08/26/15 00:00	09/01/15 13:04		
Surrogates								
n-Tetracosane (S)	0	%	18-139	20	08/26/15 00:00	09/01/15 13:04	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	20	08/26/15 00:00	09/01/15 13:04	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**439**	mg/kg	11.9	1	08/28/15 00:00	08/28/15 17:53		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/28/15 00:00	08/28/15 17:53	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	294	50		08/25/15 23:56	71-43-2	
Ethylbenzene	**11500**	ug/kg	294	50		08/25/15 23:56	100-41-4	
Toluene	ND	ug/kg	294	50		08/25/15 23:56	108-88-3	
Xylene (Total)	**22300**	ug/kg	294	50		08/25/15 23:56	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	82-137	50		08/25/15 23:56	2037-26-5	
4-Bromofluorobenzene (S)	111	%	82-119	50		08/25/15 23:56	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	81-142	50		08/25/15 23:56	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**15.9**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**673**	mg/kg	117	10	08/27/15 16:30	08/29/15 16:48	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS32(6") **Lab ID: 60201209028** Collected: 08/20/15 09:00 Received: 08/22/15 08:25 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							
TPH-DRO	**982**	mg/kg	122	10	08/26/15 00:00	09/01/15 13:12		
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/26/15 00:00	09/01/15 13:12	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/26/15 00:00	09/01/15 13:12	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**18.9**	mg/kg	12.5	1	08/28/15 00:00	08/28/15 18:10		
Surrogates								
4-Bromofluorobenzene (S)	103	%	68-144	1	08/28/15 00:00	08/28/15 18:10	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.2	1		08/25/15 22:25	71-43-2	
Ethylbenzene	ND	ug/kg	6.2	1		08/25/15 22:25	100-41-4	
Toluene	ND	ug/kg	6.2	1		08/25/15 22:25	108-88-3	
Xylene (Total)	ND	ug/kg	6.2	1		08/25/15 22:25	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	82-137	1		08/25/15 22:25	2037-26-5	
4-Bromofluorobenzene (S)	95	%	82-119	1		08/25/15 22:25	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	81-142	1		08/25/15 22:25	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**20.4**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1560**	mg/kg	126	10	08/27/15 16:30	08/29/15 17:01	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS32(18-24") **Lab ID: 60201209029** Collected: 08/20/15 09:05 Received: 08/22/15 08:25 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							
TPH-DRO	**30.5**	mg/kg	12.4	1	08/26/15 00:00	08/27/15 22:12		
Surrogates								
n-Tetracosane (S)	102	%	18-139	1	08/26/15 00:00	08/27/15 22:12	646-31-1	
p-Terphenyl (S)	96	%	51-120	1	08/26/15 00:00	08/27/15 22:12	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.3	1	08/28/15 00:00	08/28/15 18:26		
Surrogates								
4-Bromofluorobenzene (S)	102	%	68-144	1	08/28/15 00:00	08/28/15 18:26	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.3	1		08/25/15 22:40	71-43-2	
Ethylbenzene	ND	ug/kg	6.3	1		08/25/15 22:40	100-41-4	
Toluene	ND	ug/kg	6.3	1		08/25/15 22:40	108-88-3	
Xylene (Total)	ND	ug/kg	6.3	1		08/25/15 22:40	1330-20-7	
Surrogates								
Toluene-d8 (S)	93	%	82-137	1		08/25/15 22:40	2037-26-5	
4-Bromofluorobenzene (S)	105	%	82-119	1		08/25/15 22:40	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	81-142	1		08/25/15 22:40	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**20.0**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1200**	mg/kg	124	10	08/27/15 16:30	08/29/15 17:43	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS32(32-36") **Lab ID: 60201209030** Collected: 08/20/15 09:10 Received: 08/22/15 08:25 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							
TPH-DRO	**15.3**	mg/kg	12.2	1	08/26/15 00:00	08/27/15 22:19		
Surrogates								
n-Tetracosane (S)	81	%	18-139	1	08/26/15 00:00	08/27/15 22:19	646-31-1	
p-Terphenyl (S)	74	%	51-120	1	08/26/15 00:00	08/27/15 22:19	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.1	1	08/28/15 00:00	08/28/15 18:43		
Surrogates								
4-Bromofluorobenzene (S)	105	%	68-144	1	08/28/15 00:00	08/28/15 18:43	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.0	1		08/25/15 22:55	71-43-2	
Ethylbenzene	ND	ug/kg	6.0	1		08/25/15 22:55	100-41-4	
Toluene	ND	ug/kg	6.0	1		08/25/15 22:55	108-88-3	
Xylene (Total)	ND	ug/kg	6.0	1		08/25/15 22:55	1330-20-7	
Surrogates								
Toluene-d8 (S)	92	%	82-137	1		08/25/15 22:55	2037-26-5	
4-Bromofluorobenzene (S)	106	%	82-119	1		08/25/15 22:55	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	81-142	1		08/25/15 22:55	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**17.7**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1520**	mg/kg	120	10	08/27/15 16:30	08/29/15 17:56	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS31(6") **Lab ID: 60201209031** Collected: 08/20/15 09:25 Received: 08/22/15 08:25 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							
TPH-DRO	**2220**	mg/kg	125	1	08/26/15 00:00	08/27/15 22:27		
Surrogates								
n-Tetracosane (S)	0	%	18-139	1	08/26/15 00:00	08/27/15 22:27	646-31-1	
p-Terphenyl (S)	0	%	51-120	1	08/26/15 00:00	08/27/15 22:27	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**64.6**	mg/kg	12.1	1	08/28/15 00:00	08/28/15 19:00		
Surrogates								
4-Bromofluorobenzene (S)	105	%	68-144	1	08/28/15 00:00	08/28/15 19:00	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	**718**	ug/kg	305	50		08/26/15 00:12	71-43-2	
Ethylbenzene	**1630**	ug/kg	305	50		08/26/15 00:12	100-41-4	
Toluene	**387**	ug/kg	305	50		08/26/15 00:12	108-88-3	
Xylene (Total)	**1840**	ug/kg	305	50		08/26/15 00:12	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	82-137	50		08/26/15 00:12	2037-26-5	
4-Bromofluorobenzene (S)	97	%	82-119	50		08/26/15 00:12	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	81-142	50		08/26/15 00:12	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**18.2**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1740**	mg/kg	120	10	08/27/15 16:30	08/29/15 18:10	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS31(18-24") **Lab ID: 60201209032** Collected: 08/20/15 09:30 Received: 08/22/15 08:25 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							
TPH-DRO	**9400**	mg/kg	157	1	08/26/15 00:00	08/27/15 22:35		
Surrogates								
n-Tetracosane (S)	139	%	18-139	1	08/26/15 00:00	08/27/15 22:35	646-31-1	
p-Terphenyl (S)	98	%	51-120	1	08/26/15 00:00	08/27/15 22:35	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**28.6**	mg/kg	12.3	1	08/28/15 00:00	08/28/15 19:16		
Surrogates								
4-Bromofluorobenzene (S)	99	%	68-144	1	08/28/15 00:00	08/28/15 19:16	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	311	50		08/26/15 00:27	71-43-2	
Ethylbenzene	**648**	ug/kg	311	50		08/26/15 00:27	100-41-4	
Toluene	ND	ug/kg	311	50		08/26/15 00:27	108-88-3	
Xylene (Total)	ND	ug/kg	311	50		08/26/15 00:27	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	82-137	50		08/26/15 00:27	2037-26-5	
4-Bromofluorobenzene (S)	96	%	82-119	50		08/26/15 00:27	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	81-142	50		08/26/15 00:27	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**19.4**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1700**	mg/kg	123	10	08/27/15 16:30	08/29/15 18:24	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS31(32-36") **Lab ID: 60201209033** Collected: 08/20/15 09:35 Received: 08/22/15 08:25 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							
TPH-DRO	**27500**	mg/kg	1520	10	08/26/15 00:00	09/01/15 13:20		
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/26/15 00:00	09/01/15 13:20	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/26/15 00:00	09/01/15 13:20	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**102**	mg/kg	12.2	1	08/28/15 00:00	08/28/15 19:33		
Surrogates								
4-Bromofluorobenzene (S)	97	%	68-144	1	08/28/15 00:00	08/28/15 19:33	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	**1080**	ug/kg	306	50		08/26/15 00:42	71-43-2	
Ethylbenzene	**2410**	ug/kg	306	50		08/26/15 00:42	100-41-4	
Toluene	ND	ug/kg	306	50		08/26/15 00:42	108-88-3	
Xylene (Total)	**1090**	ug/kg	306	50		08/26/15 00:42	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	82-137	50		08/26/15 00:42	2037-26-5	
4-Bromofluorobenzene (S)	95	%	82-119	50		08/26/15 00:42	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	81-142	50		08/26/15 00:42	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**18.5**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1550**	mg/kg	123	10	08/27/15 16:30	08/29/15 18:37	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS30(6") **Lab ID: 60201209034** Collected: 08/20/15 09:55 Received: 08/22/15 08:25 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							
TPH-DRO	**18200**	mg/kg	2330	200	08/26/15 00:00	08/27/15 23:05		
Surrogates								
n-Tetracosane (S)	0	%	18-139	200	08/26/15 00:00	08/27/15 23:05	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	200	08/26/15 00:00	08/27/15 23:05	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.6	1	08/28/15 00:00	08/28/15 19:49		
Surrogates								
4-Bromofluorobenzene (S)	93	%	68-144	1	08/28/15 00:00	08/28/15 19:49	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.9	1		08/26/15 23:14	71-43-2	
Ethylbenzene	ND	ug/kg	5.9	1		08/26/15 23:14	100-41-4	
Toluene	ND	ug/kg	5.9	1		08/26/15 23:14	108-88-3	
Xylene (Total)	ND	ug/kg	5.9	1		08/26/15 23:14	1330-20-7	
Surrogates								
Toluene-d8 (S)	116	%	82-137	1		08/26/15 23:14	2037-26-5	
4-Bromofluorobenzene (S)	74	%	82-119	1		08/26/15 23:14	460-00-4	S0
1,2-Dichloroethane-d4 (S)	113	%	81-142	1		08/26/15 23:14	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**14.5**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**2130**	mg/kg	115	10	08/27/15 16:30	08/29/15 18:51	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS30(18-24") **Lab ID: 60201209035** Collected: 08/20/15 10:00 Received: 08/22/15 08:25 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							
TPH-DRO	**5870**	mg/kg	116	10	08/26/15 00:00	08/27/15 23:12		
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/26/15 00:00	08/27/15 23:12	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/26/15 00:00	08/27/15 23:12	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.7	1	08/28/15 00:00	08/28/15 20:39		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/28/15 00:00	08/28/15 20:39	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.9	1		08/25/15 23:26	71-43-2	
Ethylbenzene	**16.2**	ug/kg	5.9	1		08/25/15 23:26	100-41-4	
Toluene	ND	ug/kg	5.9	1		08/25/15 23:26	108-88-3	
Xylene (Total)	ND	ug/kg	5.9	1		08/25/15 23:26	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	82-137	1		08/25/15 23:26	2037-26-5	
4-Bromofluorobenzene (S)	91	%	82-119	1		08/25/15 23:26	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	81-142	1		08/25/15 23:26	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**15.6**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**4270**	mg/kg	235	20	08/27/15 16:30	08/30/15 09:22	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS30(32-36") **Lab ID: 60201209036** Collected: 08/20/15 10:05 Received: 08/22/15 08:25 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							
TPH-DRO	**1750**	mg/kg	110	10	08/26/15 00:00	09/01/15 13:28		
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/26/15 00:00	09/01/15 13:28	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/26/15 00:00	09/01/15 13:28	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.4	1	08/28/15 00:00	08/28/15 20:56		
Surrogates								
4-Bromofluorobenzene (S)	105	%	68-144	1	08/28/15 00:00	08/28/15 20:56	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.7	1		08/25/15 23:41	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1		08/25/15 23:41	100-41-4	
Toluene	ND	ug/kg	5.7	1		08/25/15 23:41	108-88-3	
Xylene (Total)	ND	ug/kg	5.7	1		08/25/15 23:41	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	82-137	1		08/25/15 23:41	2037-26-5	
4-Bromofluorobenzene (S)	96	%	82-119	1		08/25/15 23:41	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	81-142	1		08/25/15 23:41	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**12.8**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**3750**	mg/kg	228	20	08/27/15 16:30	08/30/15 09:36	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS33(6") **Lab ID: 60201209037** Collected: 08/20/15 10:50 Received: 08/22/15 08:25 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							
TPH-DRO	**1440**	mg/kg	60.8	5	08/26/15 00:00	09/01/15 13:36		
Surrogates								
n-Tetracosane (S)	0	%	18-139	5	08/26/15 00:00	09/01/15 13:36	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	5	08/26/15 00:00	09/01/15 13:36	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.3	1	08/28/15 00:00	08/28/15 21:13		
Surrogates								
4-Bromofluorobenzene (S)	103	%	68-144	1	08/28/15 00:00	08/28/15 21:13	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.1	1		08/26/15 23:30	71-43-2	
Ethylbenzene	ND	ug/kg	6.1	1		08/26/15 23:30	100-41-4	
Toluene	ND	ug/kg	6.1	1		08/26/15 23:30	108-88-3	
Xylene (Total)	ND	ug/kg	6.1	1		08/26/15 23:30	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	82-137	1		08/26/15 23:30	2037-26-5	
4-Bromofluorobenzene (S)	100	%	82-119	1		08/26/15 23:30	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	81-142	1		08/26/15 23:30	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**19.0**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**2060**	mg/kg	122	10	08/27/15 16:30	08/29/15 19:32	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS33(18-24") **Lab ID: 60201209038** Collected: 08/20/15 10:55 Received: 08/22/15 08:25 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							
TPH-DRO	**420**	mg/kg	11.5	1	08/26/15 00:00	09/01/15 13:43		
Surrogates								
n-Tetracosane (S)	94	%	18-139	1	08/26/15 00:00	09/01/15 13:43	646-31-1	
p-Terphenyl (S)	93	%	51-120	1	08/26/15 00:00	09/01/15 13:43	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.7	1	08/28/15 00:00	08/28/15 21:29		
Surrogates								
4-Bromofluorobenzene (S)	104	%	68-144	1	08/28/15 00:00	08/28/15 21:29	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.9	1		08/27/15 00:16	71-43-2	
Ethylbenzene	ND	ug/kg	5.9	1		08/27/15 00:16	100-41-4	
Toluene	ND	ug/kg	5.9	1		08/27/15 00:16	108-88-3	
Xylene (Total)	ND	ug/kg	5.9	1		08/27/15 00:16	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	82-137	1		08/27/15 00:16	2037-26-5	
4-Bromofluorobenzene (S)	101	%	82-119	1		08/27/15 00:16	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	81-142	1		08/27/15 00:16	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**15.1**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**2250**	mg/kg	117	10	08/27/15 16:30	08/29/15 19:46	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS33(32-36") **Lab ID: 60201209039** Collected: 08/20/15 11:00 Received: 08/22/15 08:25 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							
TPH-DRO	**411**	mg/kg	11.4	1	08/26/15 00:00	08/27/15 23:43		
Surrogates								
n-Tetracosane (S)	97	%	18-139	1	08/26/15 00:00	08/27/15 23:43	646-31-1	
p-Terphenyl (S)	87	%	51-120	1	08/26/15 00:00	08/27/15 23:43	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.3	1	08/27/15 00:00	08/31/15 18:22		
Surrogates								
4-Bromofluorobenzene (S)	94	%	68-144	1	08/27/15 00:00	08/31/15 18:22	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.6	1		08/27/15 00:31	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1		08/27/15 00:31	100-41-4	
Toluene	ND	ug/kg	5.6	1		08/27/15 00:31	108-88-3	
Xylene (Total)	ND	ug/kg	5.6	1		08/27/15 00:31	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	82-137	1		08/27/15 00:31	2037-26-5	
4-Bromofluorobenzene (S)	97	%	82-119	1		08/27/15 00:31	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	81-142	1		08/27/15 00:31	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**12.1**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1710**	mg/kg	114	10	08/27/15 16:30	08/29/15 20:27	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS22(6") **Lab ID: 60201209040** Collected: 08/20/15 11:25 Received: 08/22/15 08:25 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							
TPH-DRO	**8130**	mg/kg	112	10	08/26/15 00:00	08/27/15 23:50		
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/26/15 00:00	08/27/15 23:50	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/26/15 00:00	08/27/15 23:50	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.4	1	08/27/15 00:00	08/31/15 19:12		
Surrogates								
4-Bromofluorobenzene (S)	94	%	68-144	1	08/27/15 00:00	08/31/15 19:12	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	288	50		08/27/15 00:46	71-43-2	
Ethylbenzene	ND	ug/kg	288	50		08/27/15 00:46	100-41-4	
Toluene	ND	ug/kg	288	50		08/27/15 00:46	108-88-3	
Xylene (Total)	ND	ug/kg	288	50		08/27/15 00:46	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	82-137	50		08/27/15 00:46	2037-26-5	D3
4-Bromofluorobenzene (S)	93	%	82-119	50		08/27/15 00:46	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	81-142	50		08/27/15 00:46	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**13.4**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1810**	mg/kg	113	10	08/27/15 16:30	08/29/15 20:40	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS22(18-24") **Lab ID: 60201209041** Collected: 08/20/15 11:30 Received: 08/22/15 08:25 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							
TPH-DRO	**51300**	mg/kg	633	10	08/26/15 00:00	08/30/15 20:40		M1
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/26/15 00:00	08/30/15 20:40	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/26/15 00:00	08/30/15 20:40	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**107**	mg/kg	11.2	1	08/27/15 00:00	08/31/15 19:29		
Surrogates								
4-Bromofluorobenzene (S)	96	%	68-144	1	08/27/15 00:00	08/31/15 19:29	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	287	50		08/27/15 01:02	71-43-2	
Ethylbenzene	**2290**	ug/kg	287	50		08/27/15 01:02	100-41-4	
Toluene	ND	ug/kg	287	50		08/27/15 01:02	108-88-3	
Xylene (Total)	**1990**	ug/kg	287	50		08/27/15 01:02	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	82-137	50		08/27/15 01:02	2037-26-5	
4-Bromofluorobenzene (S)	98	%	82-119	50		08/27/15 01:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	81-142	50		08/27/15 01:02	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**12.0**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**886**	mg/kg	112	10	08/27/15 17:00	08/30/15 10:44	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS22(32-36") **Lab ID: 60201209042** Collected: 08/20/15 11:35 Received: 08/22/15 08:25 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							
TPH-DRO	**34200**	mg/kg	683	10	08/26/15 00:00	08/30/15 20:48		
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/26/15 00:00	08/30/15 20:48	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/26/15 00:00	08/30/15 20:48	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**126**	mg/kg	11.7	1	08/27/15 00:00	08/31/15 19:46		
Surrogates								
4-Bromofluorobenzene (S)	83	%	68-144	1	08/27/15 00:00	08/31/15 19:46	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	295	50		08/27/15 01:17	71-43-2	
Ethylbenzene	**2650**	ug/kg	295	50		08/27/15 01:17	100-41-4	
Toluene	ND	ug/kg	295	50		08/27/15 01:17	108-88-3	
Xylene (Total)	**2120**	ug/kg	295	50		08/27/15 01:17	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	82-137	50		08/27/15 01:17	2037-26-5	
4-Bromofluorobenzene (S)	92	%	82-119	50		08/27/15 01:17	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-142	50		08/27/15 01:17	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**15.5**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1150**	mg/kg	118	10	08/27/15 17:00	08/30/15 11:25	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS25(6") **Lab ID: 60201209043** Collected: 08/20/15 12:10 Received: 08/22/15 08:25 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							
TPH-DRO	**5960**	mg/kg	123	10	08/26/15 00:00	08/30/15 20:55		
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/26/15 00:00	08/30/15 20:55	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/26/15 00:00	08/30/15 20:55	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**390**	mg/kg	12.2	1	08/27/15 00:00	08/31/15 20:02		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/27/15 00:00	08/31/15 20:02	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	306	50		08/27/15 01:32	71-43-2	
Ethylbenzene	**5720**	ug/kg	306	50		08/27/15 01:32	100-41-4	
Toluene	**806**	ug/kg	306	50		08/27/15 01:32	108-88-3	
Xylene (Total)	**9430**	ug/kg	306	50		08/27/15 01:32	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	82-137	50		08/27/15 01:32	2037-26-5	
4-Bromofluorobenzene (S)	112	%	82-119	50		08/27/15 01:32	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	81-142	50		08/27/15 01:32	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**19.2**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1010**	mg/kg	123	10	08/27/15 17:00	08/30/15 11:52	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS26(6") **Lab ID: 60201209044** Collected: 08/20/15 13:10 Received: 08/22/15 08:25 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							
TPH-DRO	**54.3**	mg/kg	11.8	1	08/26/15 00:00	08/30/15 21:03		
Surrogates								
n-Tetracosane (S)	108	%	18-139	1	08/26/15 00:00	08/30/15 21:03	646-31-1	
p-Terphenyl (S)	94	%	51-120	1	08/26/15 00:00	08/30/15 21:03	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**16.8**	mg/kg	12.0	1	08/27/15 00:00	08/31/15 20:19		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	08/27/15 00:00	08/31/15 20:19	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.0	1		08/27/15 01:48	71-43-2	
Ethylbenzene	ND	ug/kg	6.0	1		08/27/15 01:48	100-41-4	
Toluene	ND	ug/kg	6.0	1		08/27/15 01:48	108-88-3	
Xylene (Total)	ND	ug/kg	6.0	1		08/27/15 01:48	1330-20-7	
Surrogates								
Toluene-d8 (S)	95	%	82-137	1		08/27/15 01:48	2037-26-5	
4-Bromofluorobenzene (S)	98	%	82-119	1		08/27/15 01:48	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	81-142	1		08/27/15 01:48	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**16.8**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**360**	mg/kg	118	10	08/27/15 17:00	08/30/15 12:06	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS27(6") **Lab ID: 60201209045** Collected: 08/20/15 13:20 Received: 08/22/15 08:25 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							
TPH-DRO	**1560**	mg/kg	109	10	08/26/15 00:00	09/01/15 14:15		
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/26/15 00:00	09/01/15 14:15	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/26/15 00:00	09/01/15 14:15	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.0	1	08/27/15 00:00	08/31/15 21:09		
Surrogates								
4-Bromofluorobenzene (S)	98	%	68-144	1	08/27/15 00:00	08/31/15 21:09	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.5	1		08/27/15 02:03	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1		08/27/15 02:03	100-41-4	
Toluene	ND	ug/kg	5.5	1		08/27/15 02:03	108-88-3	
Xylene (Total)	ND	ug/kg	5.5	1		08/27/15 02:03	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	82-137	1		08/27/15 02:03	2037-26-5	
4-Bromofluorobenzene (S)	97	%	82-119	1		08/27/15 02:03	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	81-142	1		08/27/15 02:03	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**9.4**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**2740**	mg/kg	221	20	08/27/15 17:00	08/30/15 12:20	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS28(6") **Lab ID: 60201209046** Collected: 08/20/15 13:45 Received: 08/22/15 08:25 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							
TPH-DRO	**36.1**	mg/kg	11.3	1	08/26/15 00:00	09/01/15 14:23		
Surrogates								
n-Tetracosane (S)	90	%	18-139	1	08/26/15 00:00	09/01/15 14:23	646-31-1	
p-Terphenyl (S)	79	%	51-120	1	08/26/15 00:00	09/01/15 14:23	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.3	1	08/27/15 00:00	08/31/15 21:25		
Surrogates								
4-Bromofluorobenzene (S)	99	%	68-144	1	08/27/15 00:00	08/31/15 21:25	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.7	1		08/27/15 02:18	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1		08/27/15 02:18	100-41-4	
Toluene	ND	ug/kg	5.7	1		08/27/15 02:18	108-88-3	
Xylene (Total)	ND	ug/kg	5.7	1		08/27/15 02:18	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	82-137	1		08/27/15 02:18	2037-26-5	
4-Bromofluorobenzene (S)	100	%	82-119	1		08/27/15 02:18	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-142	1		08/27/15 02:18	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**12.2**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1670**	mg/kg	112	10	08/27/15 17:00	08/30/15 12:33	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS29(6") **Lab ID: 60201209047** Collected: 08/20/15 13:55 Received: 08/22/15 08:25 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							
TPH-DRO	**4290**	mg/kg	57.4	5	08/26/15 00:00	08/30/15 21:40		
Surrogates								
n-Tetracosane (S)	0	%	18-139	5	08/26/15 00:00	08/30/15 21:40	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	5	08/26/15 00:00	08/30/15 21:40	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.4	1	08/27/15 00:00	08/31/15 21:42		
Surrogates								
4-Bromofluorobenzene (S)	96	%	68-144	1	08/27/15 00:00	08/31/15 21:42	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.7	1		08/27/15 02:34	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1		08/27/15 02:34	100-41-4	
Toluene	ND	ug/kg	5.7	1		08/27/15 02:34	108-88-3	
Xylene (Total)	ND	ug/kg	5.7	1		08/27/15 02:34	1330-20-7	
Surrogates								
Toluene-d8 (S)	101	%	82-137	1		08/27/15 02:34	2037-26-5	
4-Bromofluorobenzene (S)	92	%	82-119	1		08/27/15 02:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-142	1		08/27/15 02:34	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**13.1**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**2940**	mg/kg	230	20	08/27/15 17:00	08/30/15 12:47	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS36(6") **Lab ID: 60201209048** Collected: 08/20/15 14:45 Received: 08/22/15 08:25 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							
TPH-DRO	**94.7**	mg/kg	11.2	1	08/26/15 00:00	09/02/15 09:04		
Surrogates								
n-Tetracosane (S)	80	%	18-139	1	08/26/15 00:00	09/02/15 09:04	646-31-1	
p-Terphenyl (S)	77	%	51-120	1	08/26/15 00:00	09/02/15 09:04	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.2	1	08/27/15 00:00	08/31/15 21:59		
Surrogates								
4-Bromofluorobenzene (S)	100	%	68-144	1	08/27/15 00:00	08/31/15 21:59	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.6	1		08/27/15 02:49	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1		08/27/15 02:49	100-41-4	
Toluene	ND	ug/kg	5.6	1		08/27/15 02:49	108-88-3	
Xylene (Total)	ND	ug/kg	5.6	1		08/27/15 02:49	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	82-137	1		08/27/15 02:49	2037-26-5	
4-Bromofluorobenzene (S)	88	%	82-119	1		08/27/15 02:49	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-142	1		08/27/15 02:49	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**11.9**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**606**	mg/kg	113	10	08/27/15 17:00	08/30/15 13:28	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS36(18-24") **Lab ID: 60201209049** Collected: 08/20/15 14:50 Received: 08/22/15 08:25 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							
TPH-DRO	**3170**	mg/kg	114	10	08/26/15 00:00	09/01/15 14:31		
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/26/15 00:00	09/01/15 14:31	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/26/15 00:00	09/01/15 14:31	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.6	1	08/27/15 00:00	08/31/15 22:15		
Surrogates								
4-Bromofluorobenzene (S)	96	%	68-144	1	08/27/15 00:00	08/31/15 22:15	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.8	1		08/27/15 03:05	71-43-2	
Ethylbenzene	ND	ug/kg	5.8	1		08/27/15 03:05	100-41-4	
Toluene	ND	ug/kg	5.8	1		08/27/15 03:05	108-88-3	
Xylene (Total)	ND	ug/kg	5.8	1		08/27/15 03:05	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	82-137	1		08/27/15 03:05	2037-26-5	
4-Bromofluorobenzene (S)	95	%	82-119	1		08/27/15 03:05	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	81-142	1		08/27/15 03:05	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**13.6**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**825**	mg/kg	116	10	08/27/15 17:00	08/30/15 13:42	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS37(6") **Lab ID: 60201209050** Collected: 08/20/15 15:05 Received: 08/22/15 08:25 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							
TPH-DRO	**28400**	mg/kg	2200	200	08/26/15 00:00	09/01/15 14:39		
Surrogates								
n-Tetracosane (S)	0	%	18-139	200	08/26/15 00:00	09/01/15 14:39	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	200	08/26/15 00:00	09/01/15 14:39	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**52.1**	mg/kg	11.1	1	08/27/15 00:00	08/31/15 22:32		
Surrogates								
4-Bromofluorobenzene (S)	88	%	68-144	1	08/27/15 00:00	08/31/15 22:32	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	275	50		08/27/15 16:07	71-43-2	
Ethylbenzene	**1000**	ug/kg	275	50		08/27/15 16:07	100-41-4	
Toluene	**2080**	ug/kg	275	50		08/27/15 16:07	108-88-3	
Xylene (Total)	**2140**	ug/kg	275	50		08/27/15 16:07	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	82-137	50		08/27/15 16:07	2037-26-5	
4-Bromofluorobenzene (S)	96	%	82-119	50		08/27/15 16:07	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	81-142	50		08/27/15 16:07	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**10.3**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1700**	mg/kg	110	10	08/27/15 17:00	08/30/15 13:55	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS37(18-24") **Lab ID: 60201209051** Collected: 08/20/15 15:10 Received: 08/22/15 08:25 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							
TPH-DRO	**6180**	mg/kg	1240	100	08/26/15 00:00	09/01/15 14:47		
Surrogates								
n-Tetracosane (S)	0	%	18-139	100	08/26/15 00:00	09/01/15 14:47	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	100	08/26/15 00:00	09/01/15 14:47	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.3	1	08/27/15 00:00	08/31/15 22:49		
Surrogates								
4-Bromofluorobenzene (S)	94	%	68-144	1	08/27/15 00:00	08/31/15 22:49	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.2	1		08/27/15 03:35	71-43-2	
Ethylbenzene	ND	ug/kg	6.2	1		08/27/15 03:35	100-41-4	
Toluene	ND	ug/kg	6.2	1		08/27/15 03:35	108-88-3	
Xylene (Total)	ND	ug/kg	6.2	1		08/27/15 03:35	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	82-137	1		08/27/15 03:35	2037-26-5	
4-Bromofluorobenzene (S)	88	%	82-119	1		08/27/15 03:35	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-142	1		08/27/15 03:35	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**19.4**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**4580**	mg/kg	616	50	08/27/15 17:00	08/30/15 14:09	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-SS37(32-36") **Lab ID: 60201209052** Collected: 08/20/15 15:15 Received: 08/22/15 08:25 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							
TPH-DRO	**2130**	mg/kg	121	10	08/26/15 00:00	09/01/15 14:55		
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/26/15 00:00	09/01/15 14:55	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/26/15 00:00	09/01/15 14:55	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.1	1	08/27/15 00:00	08/31/15 23:05		
Surrogates								
4-Bromofluorobenzene (S)	95	%	68-144	1	08/27/15 00:00	08/31/15 23:05	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.0	1		08/27/15 03:51	71-43-2	
Ethylbenzene	ND	ug/kg	6.0	1		08/27/15 03:51	100-41-4	
Toluene	ND	ug/kg	6.0	1		08/27/15 03:51	108-88-3	
Xylene (Total)	ND	ug/kg	6.0	1		08/27/15 03:51	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	82-137	1		08/27/15 03:51	2037-26-5	
4-Bromofluorobenzene (S)	98	%	82-119	1		08/27/15 03:51	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-142	1		08/27/15 03:51	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**17.1**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**2710**	mg/kg	238	20	08/27/15 17:00	08/30/15 14:23	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082015-MM-DUP02 **Lab ID: 60201209053** Collected: 08/20/15 08:00 Received: 08/22/15 08:25 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							
TPH-DRO	**11200**	mg/kg	228	20	08/26/15 00:00	09/01/15 15:18		
Surrogates								
n-Tetracosane (S)	0	%	18-139	20	08/26/15 00:00	09/01/15 15:18	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	20	08/26/15 00:00	09/01/15 15:18	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**638**	mg/kg	57.4	5	08/27/15 00:00	09/01/15 15:38		
Surrogates								
4-Bromofluorobenzene (S)	97	%	68-144	5	08/27/15 00:00	09/01/15 15:38	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	288	50		08/27/15 16:22	71-43-2	
Ethylbenzene	**16800**	ug/kg	288	50		08/27/15 16:22	100-41-4	
Toluene	ND	ug/kg	288	50		08/27/15 16:22	108-88-3	
Xylene (Total)	**31800**	ug/kg	288	50		08/27/15 16:22	1330-20-7	
Surrogates								
Toluene-d8 (S)	95	%	82-137	50		08/27/15 16:22	2037-26-5	
4-Bromofluorobenzene (S)	118	%	82-119	50		08/27/15 16:22	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	81-142	50		08/27/15 16:22	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**13.1**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**708**	mg/kg	114	10	08/27/15 17:00	08/30/15 14:36	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS38(6") **Lab ID: 60201209054** Collected: 08/21/15 07:15 Received: 08/22/15 08:25 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							
TPH-DRO	**130**	mg/kg	10.9	1	08/26/15 00:00	09/01/15 15:26		
Surrogates								
n-Tetracosane (S)	80	%	18-139	1	08/26/15 00:00	09/01/15 15:26	646-31-1	
p-Terphenyl (S)	112	%	51-120	1	08/26/15 00:00	09/01/15 15:26	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**14.3**	mg/kg	10.9	1	08/27/15 00:00	08/31/15 23:38		
Surrogates								
4-Bromofluorobenzene (S)	100	%	68-144	1	08/27/15 00:00	08/31/15 23:38	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.4	1		08/27/15 13:17	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1		08/27/15 13:17	100-41-4	
Toluene	ND	ug/kg	5.4	1		08/27/15 13:17	108-88-3	
Xylene (Total)	ND	ug/kg	5.4	1		08/27/15 13:17	1330-20-7	
Surrogates								
Toluene-d8 (S)	93	%	82-137	1		08/27/15 13:17	2037-26-5	
4-Bromofluorobenzene (S)	106	%	82-119	1		08/27/15 13:17	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	81-142	1		08/27/15 13:17	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**8.9**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**986**	mg/kg	108	10	08/27/15 17:00	08/30/15 14:50	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS38(18-24") **Lab ID: 60201209055** Collected: 08/21/15 07:20 Received: 08/22/15 08:25 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							
TPH-DRO	**33600**	mg/kg	713	10	08/26/15 00:00	09/01/15 15:34		
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/26/15 00:00	09/01/15 15:34	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/26/15 00:00	09/01/15 15:34	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**87.8**	mg/kg	12.1	1	08/27/15 00:00	09/01/15 00:28		
Surrogates								
4-Bromofluorobenzene (S)	100	%	68-144	1	08/27/15 00:00	09/01/15 00:28	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	**442**	ug/kg	303	50		08/27/15 17:08	71-43-2	
Ethylbenzene	**874**	ug/kg	303	50		08/27/15 17:08	100-41-4	
Toluene	ND	ug/kg	303	50		08/27/15 17:08	108-88-3	
Xylene (Total)	**318**	ug/kg	303	50		08/27/15 17:08	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	82-137	50		08/27/15 17:08	2037-26-5	
4-Bromofluorobenzene (S)	98	%	82-119	50		08/27/15 17:08	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	81-142	50		08/27/15 17:08	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**18.2**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1500**	mg/kg	120	10	08/27/15 17:00	08/30/15 15:04	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS38(32-36") **Lab ID: 60201209056** Collected: 08/21/15 07:35 Received: 08/22/15 08:25 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							
TPH-DRO	**5110**	mg/kg	341	5	08/26/15 00:00	09/01/15 15:42		
Surrogates								
n-Tetracosane (S)	0	%	18-139	5	08/26/15 00:00	09/01/15 15:42	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	5	08/26/15 00:00	09/01/15 15:42	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**80.0**	mg/kg	12.0	1	08/27/15 00:00	09/01/15 00:45		
Surrogates								
4-Bromofluorobenzene (S)	103	%	68-144	1	08/27/15 00:00	09/01/15 00:45	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	303	50		08/27/15 17:24	71-43-2	
Ethylbenzene	**2680**	ug/kg	303	50		08/27/15 17:24	100-41-4	
Toluene	ND	ug/kg	303	50		08/27/15 17:24	108-88-3	
Xylene (Total)	**1580**	ug/kg	303	50		08/27/15 17:24	1330-20-7	
Surrogates								
Toluene-d8 (S)	101	%	82-137	50		08/27/15 17:24	2037-26-5	
4-Bromofluorobenzene (S)	91	%	82-119	50		08/27/15 17:24	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	81-142	50		08/27/15 17:24	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**16.6**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**3000**	mg/kg	240	20	08/27/15 17:00	08/30/15 15:17	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS39(6") **Lab ID: 60201209057** Collected: 08/21/15 08:15 Received: 08/22/15 08:25 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							
TPH-DRO	**23100**	mg/kg	2270	200	08/26/15 00:00	09/01/15 15:50		
Surrogates								
n-Tetracosane (S)	0	%	18-139	200	08/26/15 00:00	09/01/15 15:50	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	200	08/26/15 00:00	09/01/15 15:50	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.4	1	08/27/15 00:00	09/01/15 01:02		
Surrogates								
4-Bromofluorobenzene (S)	93	%	68-144	1	08/27/15 00:00	09/01/15 01:02	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	**12.0**	ug/kg	5.8	1		08/28/15 18:03	71-43-2	
Ethylbenzene	ND	ug/kg	5.8	1		08/28/15 18:03	100-41-4	
Toluene	ND	ug/kg	5.8	1		08/28/15 18:03	108-88-3	
Xylene (Total)	ND	ug/kg	5.8	1		08/28/15 18:03	1330-20-7	
Surrogates								
Toluene-d8 (S)	116	%	82-137	1		08/28/15 18:03	2037-26-5	IO
4-Bromofluorobenzene (S)	75	%	82-119	1		08/28/15 18:03	460-00-4	S0
1,2-Dichloroethane-d4 (S)	112	%	81-142	1		08/28/15 18:03	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**13.1**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**933**	mg/kg	113	10	08/27/15 17:00	08/30/15 15:31	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS39(18-24") **Lab ID: 60201209058** Collected: 08/21/15 08:20 Received: 08/22/15 08:25 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							
TPH-DRO	**4630**	mg/kg	362	5	08/26/15 00:00	09/02/15 09:12		
Surrogates								
n-Tetracosane (S)	0	%	18-139	5	08/26/15 00:00	09/02/15 09:12	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	5	08/26/15 00:00	09/02/15 09:12	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**16.9**	mg/kg	12.4	1	08/27/15 00:00	09/01/15 01:18		
Surrogates								
4-Bromofluorobenzene (S)	95	%	68-144	1	08/27/15 00:00	09/01/15 01:18	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	313	50		08/27/15 17:39	71-43-2	
Ethylbenzene	ND	ug/kg	313	50		08/27/15 17:39	100-41-4	
Toluene	ND	ug/kg	313	50		08/27/15 17:39	108-88-3	
Xylene (Total)	ND	ug/kg	313	50		08/27/15 17:39	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	82-137	50		08/27/15 17:39	2037-26-5	D3
4-Bromofluorobenzene (S)	98	%	82-119	50		08/27/15 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	81-142	50		08/27/15 17:39	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**20.2**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**3390**	mg/kg	251	20	08/27/15 17:00	08/30/15 16:12	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS40(6") **Lab ID: 60201209059** Collected: 08/21/15 08:40 Received: 08/22/15 08:25 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							
TPH-DRO	**9490**	mg/kg	226	20	08/26/15 00:00	09/01/15 20:12		
Surrogates								
n-Tetracosane (S)	0	%	18-139	20	08/26/15 00:00	09/01/15 20:12	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	20	08/26/15 00:00	09/01/15 20:12	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.4	1	09/01/15 00:00	09/01/15 15:54		
Surrogates								
4-Bromofluorobenzene (S)	97	%	68-144	1	09/01/15 00:00	09/01/15 15:54	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.6	1		09/01/15 12:32	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1		09/01/15 12:32	100-41-4	
Toluene	ND	ug/kg	5.6	1		09/01/15 12:32	108-88-3	
Xylene (Total)	ND	ug/kg	5.6	1		09/01/15 12:32	1330-20-7	
Surrogates								
Toluene-d8 (S)	87	%	82-137	1		09/01/15 12:32	2037-26-5	1e
4-Bromofluorobenzene (S)	80	%	82-119	1		09/01/15 12:32	460-00-4	S1
1,2-Dichloroethane-d4 (S)	98	%	81-142	1		09/01/15 12:32	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**12.1**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**2230**	mg/kg	227	20	08/27/15 17:00	08/30/15 16:26	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS46(6") **Lab ID: 60201209060** Collected: 08/21/15 09:00 Received: 08/22/15 08:25 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							
TPH-DRO	**20.0**	mg/kg	11.3	1	08/26/15 00:00	09/01/15 20:20		
Surrogates								
n-Tetracosane (S)	90	%	18-139	1	08/26/15 00:00	09/01/15 20:20	646-31-1	
p-Terphenyl (S)	86	%	51-120	1	08/26/15 00:00	09/01/15 20:20	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.4	1	09/01/15 00:00	09/01/15 16:44		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	09/01/15 00:00	09/01/15 16:44	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.6	1		08/27/15 14:04	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1		08/27/15 14:04	100-41-4	
Toluene	ND	ug/kg	5.6	1		08/27/15 14:04	108-88-3	
Xylene (Total)	ND	ug/kg	5.6	1		08/27/15 14:04	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	82-137	1		08/27/15 14:04	2037-26-5	
4-Bromofluorobenzene (S)	92	%	82-119	1		08/27/15 14:04	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-142	1		08/27/15 14:04	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**11.8**	%	0.50	1		08/26/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**673**	mg/kg	114	10	08/27/15 17:00	08/30/15 16:40	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS46(18-24") **Lab ID: 60201209061** Collected: 08/21/15 09:05 Received: 08/22/15 08:25 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							
TPH-DRO	**27.8**	mg/kg	11.2	1	08/27/15 00:00	08/30/15 18:10		
Surrogates								
n-Tetracosane (S)	106	%	18-139	1	08/27/15 00:00	08/30/15 18:10	646-31-1	
p-Terphenyl (S)	95	%	51-120	1	08/27/15 00:00	08/30/15 18:10	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.6	1	09/01/15 00:00	09/01/15 17:01		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	09/01/15 00:00	09/01/15 17:01	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.7	1		08/27/15 14:19	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1		08/27/15 14:19	100-41-4	
Toluene	ND	ug/kg	5.7	1		08/27/15 14:19	108-88-3	
Xylene (Total)	ND	ug/kg	5.7	1		08/27/15 14:19	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	82-137	1		08/27/15 14:19	2037-26-5	
4-Bromofluorobenzene (S)	100	%	82-119	1		08/27/15 14:19	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-142	1		08/27/15 14:19	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**13.5**	%	0.50	1		08/27/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**622**	mg/kg	114	10	08/27/15 17:30	08/29/15 02:04	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS41(6") **Lab ID: 60201209062** Collected: 08/21/15 09:20 Received: 08/22/15 08:25 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							
TPH-DRO	**1590**	mg/kg	112	10	08/27/15 00:00	08/30/15 18:17		
Surrogates								
n-Tetracosane (S)	0	%	18-139	10	08/27/15 00:00	08/30/15 18:17	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	10	08/27/15 00:00	08/30/15 18:17	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.7	1	09/01/15 00:00	09/01/15 17:17		
Surrogates								
4-Bromofluorobenzene (S)	96	%	68-144	1	09/01/15 00:00	09/01/15 17:17	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.9	1		08/27/15 14:34	71-43-2	
Ethylbenzene	ND	ug/kg	5.9	1		08/27/15 14:34	100-41-4	
Toluene	ND	ug/kg	5.9	1		08/27/15 14:34	108-88-3	
Xylene (Total)	ND	ug/kg	5.9	1		08/27/15 14:34	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	82-137	1		08/27/15 14:34	2037-26-5	
4-Bromofluorobenzene (S)	93	%	82-119	1		08/27/15 14:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-142	1		08/27/15 14:34	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**14.9**	%	0.50	1		08/27/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1840**	mg/kg	118	10	08/27/15 17:30	08/29/15 02:18	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS42(6") **Lab ID: 60201209063** Collected: 08/21/15 09:50 Received: 08/22/15 08:25 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							
TPH-DRO	**1210**	mg/kg	56.4	5	08/27/15 00:00	08/30/15 18:25		
Surrogates								
n-Tetracosane (S)	0	%	18-139	5	08/27/15 00:00	08/30/15 18:25	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	5	08/27/15 00:00	08/30/15 18:25	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.3	1	09/01/15 00:00	09/01/15 17:34		
Surrogates								
4-Bromofluorobenzene (S)	99	%	68-144	1	09/01/15 00:00	09/01/15 17:34	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.7	1		08/27/15 14:50	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1		08/27/15 14:50	100-41-4	
Toluene	ND	ug/kg	5.7	1		08/27/15 14:50	108-88-3	
Xylene (Total)	ND	ug/kg	5.7	1		08/27/15 14:50	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	82-137	1		08/27/15 14:50	2037-26-5	
4-Bromofluorobenzene (S)	100	%	82-119	1		08/27/15 14:50	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	81-142	1		08/27/15 14:50	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**12.0**	%	0.50	1		08/27/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1760**	mg/kg	112	10	08/27/15 17:30	08/29/15 02:45	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS43(6") **Lab ID: 60201209064** Collected: 08/21/15 10:15 Received: 08/22/15 08:25 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							
TPH-DRO	**93.9**	mg/kg	10.9	1	08/27/15 00:00	08/30/15 18:33		
Surrogates								
n-Tetracosane (S)	84	%	18-139	1	08/27/15 00:00	08/30/15 18:33	646-31-1	
p-Terphenyl (S)	90	%	51-120	1	08/27/15 00:00	08/30/15 18:33	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.4	1	09/01/15 00:00	09/01/15 18:24		
Surrogates								
4-Bromofluorobenzene (S)	99	%	68-144	1	09/01/15 00:00	09/01/15 18:24	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.6	1		08/27/15 15:05	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1		08/27/15 15:05	100-41-4	
Toluene	ND	ug/kg	5.6	1		08/27/15 15:05	108-88-3	
Xylene (Total)	ND	ug/kg	5.6	1		08/27/15 15:05	1330-20-7	
Surrogates								
Toluene-d8 (S)	93	%	82-137	1		08/27/15 15:05	2037-26-5	
4-Bromofluorobenzene (S)	102	%	82-119	1		08/27/15 15:05	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	81-142	1		08/27/15 15:05	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**12.5**	%	0.50	1		08/27/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**220**	mg/kg	113	10	08/27/15 17:30	08/29/15 02:59	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS44(6") **Lab ID: 60201209065** Collected: 08/21/15 10:45 Received: 08/22/15 08:25 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							
TPH-DRO	**34.5**	mg/kg	12.0	1	08/27/15 00:00	08/30/15 18:56		
Surrogates								
n-Tetracosane (S)	98	%	18-139	1	08/27/15 00:00	08/30/15 18:56	646-31-1	
p-Terphenyl (S)	90	%	51-120	1	08/27/15 00:00	08/30/15 18:56	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.3	1	09/01/15 00:00	09/01/15 18:41		
Surrogates								
4-Bromofluorobenzene (S)	101	%	68-144	1	09/01/15 00:00	09/01/15 18:41	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.2	1		08/27/15 15:21	71-43-2	
Ethylbenzene	ND	ug/kg	6.2	1		08/27/15 15:21	100-41-4	
Toluene	ND	ug/kg	6.2	1		08/27/15 15:21	108-88-3	
Xylene (Total)	ND	ug/kg	6.2	1		08/27/15 15:21	1330-20-7	
Surrogates								
Toluene-d8 (S)	93	%	82-137	1		08/27/15 15:21	2037-26-5	
4-Bromofluorobenzene (S)	108	%	82-119	1		08/27/15 15:21	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	81-142	1		08/27/15 15:21	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**18.7**	%	0.50	1		08/27/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**1300**	mg/kg	123	10	08/27/15 17:30	08/29/15 03:13	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-SS45(6") **Lab ID: 60201209066** Collected: 08/21/15 10:55 Received: 08/22/15 08:25 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							
TPH-DRO	**208**	mg/kg	10.7	1	08/27/15 00:00	08/30/15 19:03		
Surrogates								
n-Tetracosane (S)	118	%	18-139	1	08/27/15 00:00	08/30/15 19:03	646-31-1	
p-Terphenyl (S)	89	%	51-120	1	08/27/15 00:00	08/30/15 19:03	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.9	1	09/01/15 00:00	09/01/15 18:57		
Surrogates								
4-Bromofluorobenzene (S)	99	%	68-144	1	09/01/15 00:00	09/01/15 18:57	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.4	1		08/27/15 15:36	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1		08/27/15 15:36	100-41-4	
Toluene	ND	ug/kg	5.4	1		08/27/15 15:36	108-88-3	
Xylene (Total)	ND	ug/kg	5.4	1		08/27/15 15:36	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	82-137	1		08/27/15 15:36	2037-26-5	
4-Bromofluorobenzene (S)	95	%	82-119	1		08/27/15 15:36	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	81-142	1		08/27/15 15:36	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**8.0**	%	0.50	1		08/27/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**449**	mg/kg	108	10	08/27/15 17:30	08/29/15 03:26	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-DUP01 **Lab ID: 60201209067** Collected: 08/21/15 08:00 Received: 08/22/15 08:25 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							
TPH-DRO	**4640**	mg/kg	171	5	08/27/15 00:00	09/01/15 20:44		
Surrogates								
n-Tetracosane (S)	0	%	18-139	5	08/27/15 00:00	09/01/15 20:44	646-31-1	S4
p-Terphenyl (S)	0	%	51-120	5	08/27/15 00:00	09/01/15 20:44	92-94-4	S4
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**38.8**	mg/kg	12.1	1	09/01/15 00:00	09/01/15 19:14		
Surrogates								
4-Bromofluorobenzene (S)	100	%	68-144	1	09/01/15 00:00	09/01/15 19:14	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	302	50		08/27/15 17:55	71-43-2	
Ethylbenzene	**2470**	ug/kg	302	50		08/27/15 17:55	100-41-4	
Toluene	ND	ug/kg	302	50		08/27/15 17:55	108-88-3	
Xylene (Total)	**1460**	ug/kg	302	50		08/27/15 17:55	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	82-137	50		08/27/15 17:55	2037-26-5	
4-Bromofluorobenzene (S)	97	%	82-119	50		08/27/15 17:55	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	81-142	50		08/27/15 17:55	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**16.7**	%	0.50	1		08/27/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**3010**	mg/kg	240	20	08/27/15 17:30	08/29/15 12:55	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Sample: 089467-082115-MM-DUP03 **Lab ID: 60201209068** Collected: 08/21/15 08:00 Received: 08/22/15 08:25 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							
TPH-DRO	**22.5**	mg/kg	11.7	1	08/27/15 00:00	09/01/15 20:52		
Surrogates								
n-Tetracosane (S)	96	%	18-139	1	08/27/15 00:00	09/01/15 20:52	646-31-1	
p-Terphenyl (S)	91	%	51-120	1	08/27/15 00:00	09/01/15 20:52	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.2	1	09/01/15 00:00	09/01/15 19:31		
Surrogates								
4-Bromofluorobenzene (S)	99	%	68-144	1	09/01/15 00:00	09/01/15 19:31	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.0	1		08/27/15 15:51	71-43-2	
Ethylbenzene	ND	ug/kg	6.0	1		08/27/15 15:51	100-41-4	
Toluene	ND	ug/kg	6.0	1		08/27/15 15:51	108-88-3	
Xylene (Total)	ND	ug/kg	6.0	1		08/27/15 15:51	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	82-137	1		08/27/15 15:51	2037-26-5	
4-Bromofluorobenzene (S)	106	%	82-119	1		08/27/15 15:51	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-142	1		08/27/15 15:51	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**17.6**	%	0.50	1		08/27/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056 Preparation Method: EPA 9056							
Chloride	**742**	mg/kg	119	10	08/27/15 17:30	08/30/15 03:31	16887-00-6	M1

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: GCV/5171 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60201209001, 60201209002, 60201209003, 60201209004, 60201209005, 60201209006, 60201209007, 60201209008, 60201209009, 60201209010, 60201209011, 60201209012, 60201209013, 60201209014, 60201209015, 60201209016, 60201209017, 60201209018

METHOD BLANK: 1622179 Matrix: Solid
Associated Lab Samples: 60201209001, 60201209002, 60201209003, 60201209004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	08/25/15 11:22	
4-Bromofluorobenzene (S)	%	105	68-144	08/25/15 11:22	

METHOD BLANK: 1624078 Matrix: Solid
Associated Lab Samples: 60201209005, 60201209006, 60201209007, 60201209008, 60201209009, 60201209010, 60201209011, 60201209012, 60201209013, 60201209014, 60201209015, 60201209016, 60201209017, 60201209018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	08/27/15 14:55	
4-Bromofluorobenzene (S)	%	108	68-144	08/27/15 14:55	

LABORATORY CONTROL SAMPLE: 1622180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	56.2	112	67-115	
4-Bromofluorobenzene (S)	%			107	68-144	

LABORATORY CONTROL SAMPLE: 1624079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	56.5	113	67-115	
4-Bromofluorobenzene (S)	%			107	68-144	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622181 1622182

Parameter	Units	60201209001 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	52.7	52.7	56.4	55.0	106	104	49-122	2	14	
4-Bromofluorobenzene (S)	%						100	102	68-144			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: GCV/5175 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60201209019, 60201209020, 60201209021, 60201209022, 60201209023, 60201209024, 60201209025, 60201209026, 60201209027, 60201209028, 60201209029, 60201209030, 60201209031, 60201209032, 60201209033, 60201209034, 60201209035, 60201209036, 60201209037, 60201209038

METHOD BLANK: 1623866 Matrix: Solid
Associated Lab Samples: 60201209019, 60201209020, 60201209021, 60201209022, 60201209023, 60201209024, 60201209025, 60201209026, 60201209027, 60201209028, 60201209029, 60201209030, 60201209031, 60201209032, 60201209033, 60201209034, 60201209035, 60201209036, 60201209037, 60201209038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	08/28/15 11:31	
4-Bromofluorobenzene (S)	%	106	68-144	08/28/15 11:31	

LABORATORY CONTROL SAMPLE: 1623867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	55.5	111	67-115	
4-Bromofluorobenzene (S)	%			107	68-144	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623868 1623869

Parameter	Units	60201209019 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	53.5	53.5	61.7	56.0	113	102	49-122	10	14	
4-Bromofluorobenzene (S)	%						104	105	68-144			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: GCV/5176 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60201209039, 60201209040, 60201209041, 60201209042, 60201209043, 60201209044, 60201209045, 60201209046, 60201209047, 60201209048, 60201209049, 60201209050, 60201209051, 60201209052, 60201209053, 60201209054, 60201209055, 60201209056, 60201209057, 60201209058

METHOD BLANK: 1623890 Matrix: Solid
Associated Lab Samples: 60201209039, 60201209040, 60201209041, 60201209042, 60201209043, 60201209044, 60201209045, 60201209046, 60201209047, 60201209048, 60201209049, 60201209050, 60201209051, 60201209052, 60201209053, 60201209054, 60201209055, 60201209056, 60201209057, 60201209058

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	08/31/15 16:05	
4-Bromofluorobenzene (S)	%	103	68-144	08/31/15 16:05	

METHOD BLANK: 1626857 Matrix: Solid
Associated Lab Samples: 60201209053

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	09/01/15 14:38	
4-Bromofluorobenzene (S)	%	105	68-144	09/01/15 14:38	

LABORATORY CONTROL SAMPLE: 1623891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	52.7	105	67-115	
4-Bromofluorobenzene (S)	%			106	68-144	

LABORATORY CONTROL SAMPLE: 1626858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	53.0	106	67-115	
4-Bromofluorobenzene (S)	%			106	68-144	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623892 1623893

Parameter	Units	60201209039 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	56.3	56.3	62.9	59.4	108	102	49-122	6	14	
4-Bromofluorobenzene (S)	%						102	104	68-144			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: GCV/5179 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60201209059, 60201209060, 60201209061, 60201209062, 60201209063, 60201209064, 60201209065, 60201209066, 60201209067, 60201209068

METHOD BLANK: 1626140 Matrix: Solid
Associated Lab Samples: 60201209059, 60201209060, 60201209061, 60201209062, 60201209063, 60201209064, 60201209065, 60201209066, 60201209067, 60201209068

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	09/01/15 14:38	
4-Bromofluorobenzene (S)	%	105	68-144	09/01/15 14:38	

LABORATORY CONTROL SAMPLE: 1626141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	53.0	106	67-115	
4-Bromofluorobenzene (S)	%			106	68-144	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1626142 1626143

Parameter	Units	60201209059 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	57.2	57.2	66.6	67.7	105	107	49-122	2	14	
4-Bromofluorobenzene (S)	%						98	95	68-144			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: MSV/71341 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60201209001, 60201209002, 60201209003, 60201209004, 60201209005, 60201209006, 60201209007, 60201209011, 60201209012, 60201209013, 60201209014, 60201209015, 60201209016

METHOD BLANK: 1622333 Matrix: Solid
Associated Lab Samples: 60201209001, 60201209002, 60201209003, 60201209004, 60201209005, 60201209006, 60201209007, 60201209011, 60201209012, 60201209013, 60201209014, 60201209015, 60201209016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	08/26/15 04:47	
Ethylbenzene	ug/kg	ND	5.0	08/26/15 04:47	
Toluene	ug/kg	ND	5.0	08/26/15 04:47	
Xylene (Total)	ug/kg	ND	5.0	08/26/15 04:47	
1,2-Dichloroethane-d4 (S)	%	93	81-142	08/26/15 04:47	
4-Bromofluorobenzene (S)	%	96	82-119	08/26/15 04:47	
Toluene-d8 (S)	%	100	82-137	08/26/15 04:47	

LABORATORY CONTROL SAMPLE: 1622334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	90.1	90	74-121	
Ethylbenzene	ug/kg	100	86.5	86	77-121	
Toluene	ug/kg	100	86.2	86	77-117	
Xylene (Total)	ug/kg	300	258	86	77-121	
1,2-Dichloroethane-d4 (S)	%			94	81-142	
4-Bromofluorobenzene (S)	%			99	82-119	
Toluene-d8 (S)	%			100	82-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622335 1622336

Parameter	Units	60201209001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	105	106	70.0	74.3	67	70	32-137	6	27	
Ethylbenzene	ug/kg	ND	105	106	57.9	59.7	55	56	18-149	3	28	
Toluene	ug/kg	ND	105	106	62.6	65.1	60	61	26-141	4	28	
Xylene (Total)	ug/kg	ND	315	319	165	174	52	55	11-154	5	33	
1,2-Dichloroethane-d4 (S)	%						102	107	81-142			
4-Bromofluorobenzene (S)	%						98	100	82-119			
Toluene-d8 (S)	%						99	101	82-137			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: MSV/71343 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60201209017, 60201209018, 60201209019, 60201209020, 60201209021, 60201209022, 60201209023, 60201209024, 60201209025, 60201209026, 60201209027, 60201209028, 60201209029, 60201209030, 60201209031, 60201209032, 60201209033, 60201209035, 60201209036

METHOD BLANK: 1622418 Matrix: Solid
Associated Lab Samples: 60201209017, 60201209018, 60201209019, 60201209020, 60201209021, 60201209022, 60201209023, 60201209024, 60201209025, 60201209026, 60201209027, 60201209028, 60201209029, 60201209030, 60201209031, 60201209032, 60201209033, 60201209035, 60201209036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	08/25/15 19:06	
Ethylbenzene	ug/kg	ND	5.0	08/25/15 19:06	
Toluene	ug/kg	ND	5.0	08/25/15 19:06	
Xylene (Total)	ug/kg	ND	5.0	08/25/15 19:06	
1,2-Dichloroethane-d4 (S)	%	96	81-142	08/25/15 19:06	
4-Bromofluorobenzene (S)	%	109	82-119	08/25/15 19:06	
Toluene-d8 (S)	%	94	82-137	08/25/15 19:06	

LABORATORY CONTROL SAMPLE: 1622419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	97.8	98	74-121	
Ethylbenzene	ug/kg	100	94.1	94	77-121	
Toluene	ug/kg	100	92.4	92	77-117	
Xylene (Total)	ug/kg	300	281	94	77-121	
1,2-Dichloroethane-d4 (S)	%			96	81-142	
4-Bromofluorobenzene (S)	%			101	82-119	
Toluene-d8 (S)	%			97	82-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622420 1622421

Parameter	Units	60201209017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	114	112	87.8	85.8	77	77	32-137	2	27	
Ethylbenzene	ug/kg	ND	114	112	73.8	74.6	65	67	18-149	1	28	
Toluene	ug/kg	ND	114	112	79.3	78.9	69	71	26-141	0	28	
Xylene (Total)	ug/kg	ND	342	335	218	222	64	66	11-154	2	33	
1,2-Dichloroethane-d4 (S)	%						104	100	81-142			
4-Bromofluorobenzene (S)	%						97	98	82-119			
Toluene-d8 (S)	%						98	97	82-137			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: MSV/71367 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60201209008, 60201209009, 60201209010, 60201209034, 60201209037, 60201209038, 60201209039, 60201209040, 60201209041, 60201209042, 60201209043, 60201209044, 60201209045, 60201209046, 60201209047, 60201209048, 60201209049, 60201209051, 60201209052

METHOD BLANK: 1623161 Matrix: Solid
Associated Lab Samples: 60201209008, 60201209009, 60201209010, 60201209034, 60201209037, 60201209038, 60201209039, 60201209040, 60201209041, 60201209042, 60201209043, 60201209044, 60201209045, 60201209046, 60201209047, 60201209048, 60201209049, 60201209051, 60201209052

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	08/26/15 22:13	
Ethylbenzene	ug/kg	ND	5.0	08/26/15 22:13	
Toluene	ug/kg	ND	5.0	08/26/15 22:13	
Xylene (Total)	ug/kg	ND	5.0	08/26/15 22:13	
1,2-Dichloroethane-d4 (S)	%	98	81-142	08/26/15 22:13	
4-Bromofluorobenzene (S)	%	98	82-119	08/26/15 22:13	
Toluene-d8 (S)	%	97	82-137	08/26/15 22:13	

LABORATORY CONTROL SAMPLE: 1623162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	101	101	74-121	
Ethylbenzene	ug/kg	100	92.3	92	77-121	
Toluene	ug/kg	100	95.7	96	77-117	
Xylene (Total)	ug/kg	300	271	90	77-121	
1,2-Dichloroethane-d4 (S)	%			108	81-142	
4-Bromofluorobenzene (S)	%			93	82-119	
Toluene-d8 (S)	%			101	82-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623164 1623165

Parameter	Units	60201209037 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	122	122	66.1	70.3	54	58	32-137	6	27	
Ethylbenzene	ug/kg	ND	122	122	43.7	46.9	36	38	18-149	7	28	
Toluene	ug/kg	ND	122	122	52.6	54.8	43	45	26-141	4	28	
Xylene (Total)	ug/kg	ND	366	366	125	135	34	37	11-154	8	33	
1,2-Dichloroethane-d4 (S)	%						107	104	81-142			
4-Bromofluorobenzene (S)	%						97	100	82-119			
Toluene-d8 (S)	%						97	96	82-137			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: MSV/71387 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60201209050, 60201209053, 60201209054, 60201209055, 60201209056, 60201209058, 60201209060, 60201209061, 60201209062, 60201209063, 60201209064, 60201209065, 60201209066, 60201209067, 60201209068

METHOD BLANK: 1623861 Matrix: Solid
Associated Lab Samples: 60201209050, 60201209053, 60201209054, 60201209055, 60201209056, 60201209058, 60201209060, 60201209061, 60201209062, 60201209063, 60201209064, 60201209065, 60201209066, 60201209067, 60201209068

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	08/27/15 12:15	
Ethylbenzene	ug/kg	ND	5.0	08/27/15 12:15	
Toluene	ug/kg	ND	5.0	08/27/15 12:15	
Xylene (Total)	ug/kg	ND	5.0	08/27/15 12:15	
1,2-Dichloroethane-d4 (S)	%	101	81-142	08/27/15 12:15	
4-Bromofluorobenzene (S)	%	94	82-119	08/27/15 12:15	
Toluene-d8 (S)	%	104	82-137	08/27/15 12:15	

LABORATORY CONTROL SAMPLE: 1623862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	96.3	96	74-121	
Ethylbenzene	ug/kg	100	91.1	91	77-121	
Toluene	ug/kg	100	89.3	89	77-117	
Xylene (Total)	ug/kg	300	285	95	77-121	
1,2-Dichloroethane-d4 (S)	%			100	81-142	
4-Bromofluorobenzene (S)	%			99	82-119	
Toluene-d8 (S)	%			97	82-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623863 1623864

Parameter	Units	60201209053 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	5770	5770	5220	5440	91	94	32-137	4	27	
Ethylbenzene	ug/kg	16800	5770	5770	24600	24400	135	132	18-149	1	28	
Toluene	ug/kg	ND	5770	5770	4610	4940	76	82	26-141	7	28	
Xylene (Total)	ug/kg	31800	17300	17300	53700	53400	126	125	11-154	0	33	
1,2-Dichloroethane-d4 (S)	%						94	94	81-142			
4-Bromofluorobenzene (S)	%						126	127	82-119			S0
Toluene-d8 (S)	%						93	94	82-137			S1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: MSV/71418
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60201209057

METHOD BLANK: 1624886 Matrix: Solid
Associated Lab Samples: 60201209057

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	08/28/15 16:01	
Ethylbenzene	ug/kg	ND	5.0	08/28/15 16:01	
Toluene	ug/kg	ND	5.0	08/28/15 16:01	
Xylene (Total)	ug/kg	ND	5.0	08/28/15 16:01	
1,2-Dichloroethane-d4 (S)	%	99	81-142	08/28/15 16:01	
4-Bromofluorobenzene (S)	%	96	82-119	08/28/15 16:01	
Toluene-d8 (S)	%	102	82-137	08/28/15 16:01	

LABORATORY CONTROL SAMPLE: 1624887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	98.2	98	74-121	
Ethylbenzene	ug/kg	100	93.0	93	77-121	
Toluene	ug/kg	100	90.8	91	77-117	
Xylene (Total)	ug/kg	300	285	95	77-121	
1,2-Dichloroethane-d4 (S)	%			99	81-142	
4-Bromofluorobenzene (S)	%			99	82-119	
Toluene-d8 (S)	%			97	82-137	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: MSV/71453
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60201209059

METHOD BLANK: 1625912 Matrix: Solid
Associated Lab Samples: 60201209059

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	09/01/15 11:44	
Ethylbenzene	ug/kg	ND	5.0	09/01/15 11:44	
Toluene	ug/kg	ND	5.0	09/01/15 11:44	
Xylene (Total)	ug/kg	ND	5.0	09/01/15 11:44	
1,2-Dichloroethane-d4 (S)	%	93	81-142	09/01/15 11:44	
4-Bromofluorobenzene (S)	%	95	82-119	09/01/15 11:44	
Toluene-d8 (S)	%	99	82-137	09/01/15 11:44	

LABORATORY CONTROL SAMPLE: 1625913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	97.0	97	74-121	
Ethylbenzene	ug/kg	100	100	100	77-121	
Toluene	ug/kg	100	97.2	97	77-117	
Xylene (Total)	ug/kg	300	293	98	77-121	
1,2-Dichloroethane-d4 (S)	%			93	81-142	
4-Bromofluorobenzene (S)	%			96	82-119	
Toluene-d8 (S)	%			101	82-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1625914 1625915

Parameter	Units	60201668001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	127	127	94.3	107	74	84	32-137	13	27	
Ethylbenzene	ug/kg	ND	127	127	86.4	102	68	80	18-149	16	28	
Toluene	ug/kg	ND	127	127	90.3	102	71	80	26-141	12	28	
Xylene (Total)	ug/kg	ND	381	381	253	295	66	77	11-154	15	33	
1,2-Dichloroethane-d4 (S)	%						94	90	81-142			
4-Bromofluorobenzene (S)	%						98	98	82-119			
Toluene-d8 (S)	%						101	100	82-137			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: OEXT/50864 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60201209001, 60201209002, 60201209003, 60201209004, 60201209005, 60201209006, 60201209007, 60201209008, 60201209009, 60201209010, 60201209011, 60201209012, 60201209013, 60201209014, 60201209015, 60201209016, 60201209017, 60201209018, 60201209019, 60201209020

METHOD BLANK: 1623215 Matrix: Solid
Associated Lab Samples: 60201209001, 60201209002, 60201209003, 60201209004, 60201209005, 60201209006, 60201209007, 60201209008, 60201209009, 60201209010, 60201209011, 60201209012, 60201209013, 60201209014, 60201209015, 60201209016, 60201209017, 60201209018, 60201209019, 60201209020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.9	08/28/15 03:45	
n-Tetracosane (S)	%	93	18-139	08/28/15 03:45	
p-Terphenyl (S)	%	92	51-120	08/28/15 03:45	

LABORATORY CONTROL SAMPLE: 1623216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	82.8	83.0	100	76-115	
n-Tetracosane (S)	%			98	18-139	
p-Terphenyl (S)	%			98	51-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623217 1623218

Parameter	Units	60201209001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO	mg/kg	ND	87.3	87.6	89.1	89.6	96	96	12-159	1	37	
n-Tetracosane (S)	%						94	97	18-139			
p-Terphenyl (S)	%						91	92	51-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: OEXT/50865 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60201209021, 60201209022, 60201209023, 60201209024, 60201209025, 60201209026, 60201209027, 60201209028, 60201209029, 60201209030, 60201209031, 60201209032, 60201209033, 60201209034, 60201209035, 60201209036, 60201209037, 60201209038, 60201209039, 60201209040

METHOD BLANK: 1623223 Matrix: Solid
Associated Lab Samples: 60201209021, 60201209022, 60201209023, 60201209024, 60201209025, 60201209026, 60201209027, 60201209028, 60201209029, 60201209030, 60201209031, 60201209032, 60201209033, 60201209034, 60201209035, 60201209036, 60201209037, 60201209038, 60201209039, 60201209040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.8	08/27/15 20:26	
n-Tetracosane (S)	%	87	18-139	08/27/15 20:26	
p-Terphenyl (S)	%	86	51-120	08/27/15 20:26	

LABORATORY CONTROL SAMPLE: 1623224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	83	81.6	98	76-115	
n-Tetracosane (S)	%			94	18-139	
p-Terphenyl (S)	%			92	51-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623225 1623226

Parameter	Units	60201209021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO	mg/kg	18.9	88.3	88.8	107	108	100	101	12-159	1	37	
n-Tetracosane (S)	%						103	106	18-139			
p-Terphenyl (S)	%						91	99	51-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: OEXT/50867 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60201209041, 60201209042, 60201209043, 60201209044, 60201209045, 60201209046, 60201209047, 60201209048, 60201209049, 60201209050, 60201209051, 60201209052, 60201209053, 60201209054, 60201209055, 60201209056, 60201209057, 60201209058, 60201209059, 60201209060

METHOD BLANK: 1623322 Matrix: Solid
Associated Lab Samples: 60201209041, 60201209042, 60201209043, 60201209044, 60201209045, 60201209046, 60201209047, 60201209048, 60201209049, 60201209050, 60201209051, 60201209052, 60201209053, 60201209054, 60201209055, 60201209056, 60201209057, 60201209058, 60201209059, 60201209060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.9	08/30/15 20:10	
n-Tetracosane (S)	%	83	18-139	08/30/15 20:10	
p-Terphenyl (S)	%	82	51-120	08/30/15 20:10	

LABORATORY CONTROL SAMPLE: 1623323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	82.7	80.1	97	76-115	
n-Tetracosane (S)	%			79	18-139	
p-Terphenyl (S)	%			79	51-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623324 1623325

Parameter	Units	60201209041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO	mg/kg	51300	549	532	47300	48500	-742	-523	12-159	3	37	M1
n-Tetracosane (S)	%						0	0	18-139			S4
p-Terphenyl (S)	%						0	0	51-120			S4

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: OEXT/50872 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60201209061, 60201209062, 60201209063, 60201209064, 60201209065, 60201209066, 60201209067, 60201209068

METHOD BLANK: 1623490 Matrix: Solid
Associated Lab Samples: 60201209061, 60201209062, 60201209063, 60201209064, 60201209065, 60201209066, 60201209067, 60201209068

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.8	08/30/15 17:40	
n-Tetracosane (S)	%	94	18-139	08/30/15 17:40	
p-Terphenyl (S)	%	92	51-120	08/30/15 17:40	

LABORATORY CONTROL SAMPLE: 1623491

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	80.4	79.7	99	76-115	
n-Tetracosane (S)	%			99	18-139	
p-Terphenyl (S)	%			93	51-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623493 1623494

Parameter	Units	60201209061 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO	mg/kg	27.8	95.6	95.7	104	117	79	93	12-159	12	37	
n-Tetracosane (S)	%						94	107	18-139			
p-Terphenyl (S)	%						83	94	51-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: PMST/11054 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60201209001, 60201209002, 60201209003, 60201209004, 60201209005, 60201209006, 60201209007, 60201209008, 60201209009, 60201209010, 60201209011, 60201209012, 60201209013, 60201209014, 60201209015, 60201209016, 60201209017, 60201209018, 60201209019, 60201209020

METHOD BLANK: 1622760 Matrix: Solid
Associated Lab Samples: 60201209001, 60201209002, 60201209003, 60201209004, 60201209005, 60201209006, 60201209007, 60201209008, 60201209009, 60201209010, 60201209011, 60201209012, 60201209013, 60201209014, 60201209015, 60201209016, 60201209017, 60201209018, 60201209019, 60201209020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/26/15 00:00	

SAMPLE DUPLICATE: 1622761

Parameter	Units	60201209001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.6	5.5	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: PMST/11055 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60201209021, 60201209022, 60201209023, 60201209024, 60201209025, 60201209026, 60201209027, 60201209028, 60201209029, 60201209030, 60201209031, 60201209032, 60201209033, 60201209034, 60201209035, 60201209036, 60201209037, 60201209038, 60201209039, 60201209040

METHOD BLANK: 1622762 Matrix: Solid
Associated Lab Samples: 60201209021, 60201209022, 60201209023, 60201209024, 60201209025, 60201209026, 60201209027, 60201209028, 60201209029, 60201209030, 60201209031, 60201209032, 60201209033, 60201209034, 60201209035, 60201209036, 60201209037, 60201209038, 60201209039, 60201209040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/26/15 00:00	

SAMPLE DUPLICATE: 1622763

Parameter	Units	60201209021 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.2	6.9	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: PMST/11056 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60201209041, 60201209042, 60201209043, 60201209044, 60201209045, 60201209046, 60201209047, 60201209048, 60201209049, 60201209050, 60201209051, 60201209052, 60201209053, 60201209054, 60201209055, 60201209056, 60201209057, 60201209058, 60201209059, 60201209060

METHOD BLANK: 1622764 Matrix: Solid
Associated Lab Samples: 60201209041, 60201209042, 60201209043, 60201209044, 60201209045, 60201209046, 60201209047, 60201209048, 60201209049, 60201209050, 60201209051, 60201209052, 60201209053, 60201209054, 60201209055, 60201209056, 60201209057, 60201209058, 60201209059, 60201209060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/26/15 00:00	

SAMPLE DUPLICATE: 1622765

Parameter	Units	60201209041 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.0	11.4	5	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: PMST/11058 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60201209061, 60201209062, 60201209063, 60201209064, 60201209065, 60201209066, 60201209067, 60201209068

METHOD BLANK: 1623464 Matrix: Solid
Associated Lab Samples: 60201209061, 60201209062, 60201209063, 60201209064, 60201209065, 60201209066, 60201209067, 60201209068

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/27/15 00:00	

SAMPLE DUPLICATE: 1623683

Parameter	Units	60201209061 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.5	13.1	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: WETA/35641 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 60201209001, 60201209002, 60201209003, 60201209004, 60201209005, 60201209006, 60201209007, 60201209008, 60201209009, 60201209010, 60201209011, 60201209012, 60201209013, 60201209014, 60201209015, 60201209016, 60201209017, 60201209018, 60201209019, 60201209020

METHOD BLANK: 1623261 Matrix: Solid
Associated Lab Samples: 60201209001, 60201209002, 60201209003, 60201209004, 60201209005, 60201209006, 60201209007, 60201209008, 60201209009, 60201209010, 60201209011, 60201209012, 60201209013, 60201209014, 60201209015, 60201209016, 60201209017, 60201209018, 60201209019, 60201209020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/28/15 18:33	

METHOD BLANK: 1625034 Matrix: Solid
Associated Lab Samples: 60201209001, 60201209002, 60201209003, 60201209004, 60201209005, 60201209006, 60201209007, 60201209008, 60201209009, 60201209010, 60201209011, 60201209012, 60201209013, 60201209014, 60201209015, 60201209016, 60201209017, 60201209018, 60201209019, 60201209020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/29/15 10:25	

LABORATORY CONTROL SAMPLE: 1623262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	485	97	80-120	

LABORATORY CONTROL SAMPLE: 1625035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	460	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623263 1623264

Parameter	Units	60201209001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	2130	522	529	2490	2520	69	74	80-120	1	15	M1

SAMPLE DUPLICATE: 1623265

Parameter	Units	60201209002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/kg	1110	1120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: WETA/35642 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 60201209021, 60201209022, 60201209023, 60201209024, 60201209025, 60201209026, 60201209027, 60201209028, 60201209029, 60201209030, 60201209031, 60201209032, 60201209033, 60201209034, 60201209035, 60201209036, 60201209037, 60201209038, 60201209039, 60201209040

METHOD BLANK: 1623266 Matrix: Solid
Associated Lab Samples: 60201209021, 60201209022, 60201209023, 60201209024, 60201209025, 60201209026, 60201209027, 60201209028, 60201209029, 60201209030, 60201209031, 60201209032, 60201209033, 60201209034, 60201209035, 60201209036, 60201209037, 60201209038, 60201209039, 60201209040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/29/15 13:50	

METHOD BLANK: 1625114 Matrix: Solid
Associated Lab Samples: 60201209021, 60201209022, 60201209023, 60201209024, 60201209025, 60201209026, 60201209027, 60201209028, 60201209029, 60201209030, 60201209031, 60201209032, 60201209033, 60201209034, 60201209035, 60201209036, 60201209037, 60201209038, 60201209039, 60201209040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/30/15 08:55	

LABORATORY CONTROL SAMPLE: 1623267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	492	98	80-120	

LABORATORY CONTROL SAMPLE: 1625115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623268 1623269

Parameter	Units	60201209021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	1010	541	530	1540	1510	99	95	80-120	2	15	

SAMPLE DUPLICATE: 1623270

Parameter	Units	60201209022 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/kg	1800	1800	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: WETA/35643 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 60201209041, 60201209042, 60201209043, 60201209044, 60201209045, 60201209046, 60201209047, 60201209048, 60201209049, 60201209050, 60201209051, 60201209052, 60201209053, 60201209054, 60201209055, 60201209056, 60201209057, 60201209058, 60201209059, 60201209060

METHOD BLANK: 1623271 Matrix: Solid
Associated Lab Samples: 60201209041, 60201209042, 60201209043, 60201209044, 60201209045, 60201209046, 60201209047, 60201209048, 60201209049, 60201209050, 60201209051, 60201209052, 60201209053, 60201209054, 60201209055, 60201209056, 60201209057, 60201209058, 60201209059, 60201209060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/30/15 09:49	

LABORATORY CONTROL SAMPLE: 1623272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623273 1623274

Parameter	Units	60201209041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	886	558	561	1390	1400	90	91	80-120	1	15	

SAMPLE DUPLICATE: 1623275

Parameter	Units	60201209042 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/kg	1150	1190	3	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

QC Batch: WETA/35644 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 60201209061, 60201209062, 60201209063, 60201209064, 60201209065, 60201209066, 60201209067, 60201209068

METHOD BLANK: 1623276 Matrix: Solid
Associated Lab Samples: 60201209061, 60201209062, 60201209063, 60201209064, 60201209065, 60201209066, 60201209067, 60201209068

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/29/15 01:09	

METHOD BLANK: 1625036 Matrix: Solid
Associated Lab Samples: 60201209061, 60201209062, 60201209063, 60201209064, 60201209065, 60201209066, 60201209067, 60201209068

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/29/15 10:25	

LABORATORY CONTROL SAMPLE: 1623277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	493	99	80-120	

LABORATORY CONTROL SAMPLE: 1625037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	460	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623278 1623279

Parameter	Units	60201209068 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	742	604	607	996	1010	42	44	80-120	1	15	M1

SAMPLE DUPLICATE: 1623280

Parameter	Units	60201209062 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/kg	1840	2020	10	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

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.

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.

BATCH QUALIFIERS

Batch: GCV/5177

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
IO	The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.
S1	Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60201209001	089467-081915-MM-SS01(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209002	089467-081915-MM-SS02(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209003	089467-081915-MM-SS03(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209004	089467-081915-MM-SS04(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209005	089467-081915-MM-SS05(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209006	089467-081915-MM-SS06(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209007	089467-081915-MM-SS07(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209008	089467-081915-MM-SS08(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209009	089467-081915-MM-SS09(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209010	089467-081915-MM-SS10(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209011	089467-081915-MM-SS11(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209012	089467-081915-MM-SS12(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209013	089467-081915-MM-SS13(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209014	089467-081915-MM-SS14(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209015	089467-081915-MM-SS15(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209016	089467-081915-MM-SS16(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209017	089467-081915-MM-SS17(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209018	089467-081915-MM-SS18(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209019	089467-081915-MM-SS19(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209020	089467-081915-MM-SS20(6")	EPA 3546	OEXT/50864	EPA 8015B	GCSV/19579
60201209021	089467-081915-MM-SS21(6")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209022	089467-082015-MM-SS35(6")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209023	089467-082015-MM-SS35(18-24")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209024	089467-082015-MM-SS35(32-36")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209025	089467-082015-MM-SS34(6")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209026	089467-082015-MM-SS34(18-24")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209027	089467-082015-MM-SS34(32-36")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209028	089467-082015-MM-SS32(6")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209029	089467-082015-MM-SS32(18-24")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209030	089467-082015-MM-SS32(32-36")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209031	089467-082015-MM-SS31(6")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209032	089467-082015-MM-SS31(18-24")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209033	089467-082015-MM-SS31(32-36")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209034	089467-082015-MM-SS30(6")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209035	089467-082015-MM-SS30(18-24")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209036	089467-082015-MM-SS30(32-36")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209037	089467-082015-MM-SS33(6")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209038	089467-082015-MM-SS33(18-24")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209039	089467-082015-MM-SS33(32-36")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209040	089467-082015-MM-SS22(6")	EPA 3546	OEXT/50865	EPA 8015B	GCSV/19572
60201209041	089467-082015-MM-SS22(18-24")	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209042	089467-082015-MM-SS22(32-36")	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209043	089467-082015-MM-SS25(6")	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209044	089467-082015-MM-SS26(6")	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209045	089467-082015-MM-SS27(6")	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209046	089467-082015-MM-SS28(6")	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209047	089467-082015-MM-SS29(6")	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209048	089467-082015-MM-SS36(6")	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60201209049	**089467-082015-MM-SS36(18-24")**	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209050	**089467-082015-MM-SS37(6")**	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209051	**089467-082015-MM-SS37(18-24")**	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209052	**089467-082015-MM-SS37(32-36")**	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209053	**089467-082015-MM-DUP02**	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209054	**089467-082115-MM-SS38(6")**	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209055	**089467-082115-MM-SS38(18-24")**	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209056	**089467-082115-MM-SS38(32-36")**	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209057	**089467-082115-MM-SS39(6")**	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209058	**089467-082115-MM-SS39(18-24")**	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209059	**089467-082115-MM-SS40(6")**	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209060	**089467-082115-MM-SS46(6")**	EPA 3546	OEXT/50867	EPA 8015B	GCSV/19588
60201209061	**089467-082115-MM-SS46(18-24")**	EPA 3546	OEXT/50872	EPA 8015B	GCSV/19587
60201209062	**089467-082115-MM-SS41(6")**	EPA 3546	OEXT/50872	EPA 8015B	GCSV/19587
60201209063	**089467-082115-MM-SS42(6")**	EPA 3546	OEXT/50872	EPA 8015B	GCSV/19587
60201209064	**089467-082115-MM-SS43(6")**	EPA 3546	OEXT/50872	EPA 8015B	GCSV/19587
60201209065	**089467-082115-MM-SS44(6")**	EPA 3546	OEXT/50872	EPA 8015B	GCSV/19587
60201209066	**089467-082115-MM-SS45(6")**	EPA 3546	OEXT/50872	EPA 8015B	GCSV/19587
60201209067	**089467-082115-MM-DUP01**	EPA 3546	OEXT/50872	EPA 8015B	GCSV/19587
60201209068	**089467-082115-MM-DUP03**	EPA 3546	OEXT/50872	EPA 8015B	GCSV/19587
60201209001	**089467-081915-MM-SS01(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5172
60201209002	**089467-081915-MM-SS02(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5172
60201209003	**089467-081915-MM-SS03(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5172
60201209004	**089467-081915-MM-SS04(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5172
60201209005	**089467-081915-MM-SS05(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209006	**089467-081915-MM-SS06(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209007	**089467-081915-MM-SS07(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209008	**089467-081915-MM-SS08(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209009	**089467-081915-MM-SS09(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209010	**089467-081915-MM-SS10(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209011	**089467-081915-MM-SS11(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209012	**089467-081915-MM-SS12(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209013	**089467-081915-MM-SS13(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209014	**089467-081915-MM-SS14(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209015	**089467-081915-MM-SS15(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209016	**089467-081915-MM-SS16(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209017	**089467-081915-MM-SS17(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209018	**089467-081915-MM-SS18(6")**	EPA 5035A/5030B	GCV/5171	EPA 8015B	GCV/5177
60201209019	**089467-081915-MM-SS19(6")**	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209020	**089467-081915-MM-SS20(6")**	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209021	**089467-081915-MM-SS21(6")**	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209022	**089467-082015-MM-SS35(6")**	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209023	**089467-082015-MM-SS35(18-24")**	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209024	**089467-082015-MM-SS35(32-36")**	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209025	**089467-082015-MM-SS34(6")**	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209026	**089467-082015-MM-SS34(18-24")**	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209027	**089467-082015-MM-SS34(32-36")**	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60201209028	089467-082015-MM-SS32(6")	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209029	089467-082015-MM-SS32(18-24")	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209030	089467-082015-MM-SS32(32-36")	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209031	089467-082015-MM-SS31(6")	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209032	089467-082015-MM-SS31(18-24")	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209033	089467-082015-MM-SS31(32-36")	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209034	089467-082015-MM-SS30(6")	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209035	089467-082015-MM-SS30(18-24")	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209036	089467-082015-MM-SS30(32-36")	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209037	089467-082015-MM-SS33(6")	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209038	089467-082015-MM-SS33(18-24")	EPA 5035A/5030B	GCV/5175	EPA 8015B	GCV/5178
60201209039	089467-082015-MM-SS33(32-36")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209040	089467-082015-MM-SS22(6")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209041	089467-082015-MM-SS22(18-24")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209042	089467-082015-MM-SS22(32-36")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209043	089467-082015-MM-SS25(6")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209044	089467-082015-MM-SS26(6")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209045	089467-082015-MM-SS27(6")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209046	089467-082015-MM-SS28(6")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209047	089467-082015-MM-SS29(6")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209048	089467-082015-MM-SS36(6")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209049	089467-082015-MM-SS36(18-24")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209050	089467-082015-MM-SS37(6")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209051	089467-082015-MM-SS37(18-24")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209052	089467-082015-MM-SS37(32-36")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209053	089467-082015-MM-DUP02	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5181
60201209054	089467-082115-MM-SS38(6")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209055	089467-082115-MM-SS38(18-24")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209056	089467-082115-MM-SS38(32-36")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209057	089467-082115-MM-SS39(6")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209058	089467-082115-MM-SS39(18-24")	EPA 5035A/5030B	GCV/5176	EPA 8015B	GCV/5180
60201209059	089467-082115-MM-SS40(6")	EPA 5035A/5030B	GCV/5179	EPA 8015B	GCV/5182
60201209060	089467-082115-MM-SS46(6")	EPA 5035A/5030B	GCV/5179	EPA 8015B	GCV/5182
60201209061	089467-082115-MM-SS46(18-24")	EPA 5035A/5030B	GCV/5179	EPA 8015B	GCV/5182
60201209062	089467-082115-MM-SS41(6")	EPA 5035A/5030B	GCV/5179	EPA 8015B	GCV/5182
60201209063	089467-082115-MM-SS42(6")	EPA 5035A/5030B	GCV/5179	EPA 8015B	GCV/5182
60201209064	089467-082115-MM-SS43(6")	EPA 5035A/5030B	GCV/5179	EPA 8015B	GCV/5182
60201209065	089467-082115-MM-SS44(6")	EPA 5035A/5030B	GCV/5179	EPA 8015B	GCV/5182
60201209066	089467-082115-MM-SS45(6")	EPA 5035A/5030B	GCV/5179	EPA 8015B	GCV/5182
60201209067	089467-082115-MM-DUP01	EPA 5035A/5030B	GCV/5179	EPA 8015B	GCV/5182
60201209068	089467-082115-MM-DUP03	EPA 5035A/5030B	GCV/5179	EPA 8015B	GCV/5182
60201209001	089467-081915-MM-SS01(6")	EPA 8260	MSV/71341		
60201209002	089467-081915-MM-SS02(6")	EPA 8260	MSV/71341		
60201209003	089467-081915-MM-SS03(6")	EPA 8260	MSV/71341		
60201209004	089467-081915-MM-SS04(6")	EPA 8260	MSV/71341		
60201209005	089467-081915-MM-SS05(6")	EPA 8260	MSV/71341		
60201209006	089467-081915-MM-SS06(6")	EPA 8260	MSV/71341		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60201209007	089467-081915-MM-SS07(6")	EPA 8260	MSV/71341		
60201209008	089467-081915-MM-SS08(6")	EPA 8260	MSV/71367		
60201209009	089467-081915-MM-SS09(6")	EPA 8260	MSV/71367		
60201209010	089467-081915-MM-SS10(6")	EPA 8260	MSV/71367		
60201209011	089467-081915-MM-SS11(6")	EPA 8260	MSV/71341		
60201209012	089467-081915-MM-SS12(6")	EPA 8260	MSV/71341		
60201209013	089467-081915-MM-SS13(6")	EPA 8260	MSV/71341		
60201209014	089467-081915-MM-SS14(6")	EPA 8260	MSV/71341		
60201209015	089467-081915-MM-SS15(6")	EPA 8260	MSV/71341		
60201209016	089467-081915-MM-SS16(6")	EPA 8260	MSV/71341		
60201209017	089467-081915-MM-SS17(6")	EPA 8260	MSV/71343		
60201209018	089467-081915-MM-SS18(6")	EPA 8260	MSV/71343		
60201209019	089467-081915-MM-SS19(6")	EPA 8260	MSV/71343		
60201209020	089467-081915-MM-SS20(6")	EPA 8260	MSV/71343		
60201209021	089467-081915-MM-SS21(6")	EPA 8260	MSV/71343		
60201209022	089467-082015-MM-SS35(6")	EPA 8260	MSV/71343		
60201209023	089467-082015-MM-SS35(18-24")	EPA 8260	MSV/71343		
60201209024	089467-082015-MM-SS35(32-36")	EPA 8260	MSV/71343		
60201209025	089467-082015-MM-SS34(6")	EPA 8260	MSV/71343		
60201209026	089467-082015-MM-SS34(18-24")	EPA 8260	MSV/71343		
60201209027	089467-082015-MM-SS34(32-36")	EPA 8260	MSV/71343		
60201209028	089467-082015-MM-SS32(6")	EPA 8260	MSV/71343		
60201209029	089467-082015-MM-SS32(18-24")	EPA 8260	MSV/71343		
60201209030	089467-082015-MM-SS32(32-36")	EPA 8260	MSV/71343		
60201209031	089467-082015-MM-SS31(6")	EPA 8260	MSV/71343		
60201209032	089467-082015-MM-SS31(18-24")	EPA 8260	MSV/71343		
60201209033	089467-082015-MM-SS31(32-36")	EPA 8260	MSV/71343		
60201209034	089467-082015-MM-SS30(6")	EPA 8260	MSV/71367		
60201209035	089467-082015-MM-SS30(18-24")	EPA 8260	MSV/71343		
60201209036	089467-082015-MM-SS30(32-36")	EPA 8260	MSV/71343		
60201209037	089467-082015-MM-SS33(6")	EPA 8260	MSV/71367		
60201209038	089467-082015-MM-SS33(18-24")	EPA 8260	MSV/71367		
60201209039	089467-082015-MM-SS33(32-36")	EPA 8260	MSV/71367		
60201209040	089467-082015-MM-SS22(6")	EPA 8260	MSV/71367		
60201209041	089467-082015-MM-SS22(18-24")	EPA 8260	MSV/71367		
60201209042	089467-082015-MM-SS22(32-36")	EPA 8260	MSV/71367		
60201209043	089467-082015-MM-SS25(6")	EPA 8260	MSV/71367		
60201209044	089467-082015-MM-SS26(6")	EPA 8260	MSV/71367		
60201209045	089467-082015-MM-SS27(6")	EPA 8260	MSV/71367		
60201209046	089467-082015-MM-SS28(6")	EPA 8260	MSV/71367		
60201209047	089467-082015-MM-SS29(6")	EPA 8260	MSV/71367		
60201209048	089467-082015-MM-SS36(6")	EPA 8260	MSV/71367		
60201209049	089467-082015-MM-SS36(18-24")	EPA 8260	MSV/71367		
60201209050	089467-082015-MM-SS37(6")	EPA 8260	MSV/71387		
60201209051	089467-082015-MM-SS37(18-24")	EPA 8260	MSV/71367		

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60201209052	089467-082015-MM-SS37(32-36")	EPA 8260	MSV/71367		
60201209053	089467-082015-MM-DUP02	EPA 8260	MSV/71387		
60201209054	089467-082115-MM-SS38(6")	EPA 8260	MSV/71387		
60201209055	089467-082115-MM-SS38(18-24")	EPA 8260	MSV/71387		
60201209056	089467-082115-MM-SS38(32-36")	EPA 8260	MSV/71387		
60201209057	089467-082115-MM-SS39(6")	EPA 8260	MSV/71418		
60201209058	089467-082115-MM-SS39(18-24")	EPA 8260	MSV/71387		
60201209059	089467-082115-MM-SS40(6")	EPA 8260	MSV/71453		
60201209060	089467-082115-MM-SS46(6")	EPA 8260	MSV/71387		
60201209061	089467-082115-MM-SS46(18-24")	EPA 8260	MSV/71387		
60201209062	089467-082115-MM-SS41(6")	EPA 8260	MSV/71387		
60201209063	089467-082115-MM-SS42(6")	EPA 8260	MSV/71387		
60201209064	089467-082115-MM-SS43(6")	EPA 8260	MSV/71387		
60201209065	089467-082115-MM-SS44(6")	EPA 8260	MSV/71387		
60201209066	089467-082115-MM-SS45(6")	EPA 8260	MSV/71387		
60201209067	089467-082115-MM-DUP01	EPA 8260	MSV/71387		
60201209068	089467-082115-MM-DUP03	EPA 8260	MSV/71387		
60201209001	089467-081915-MM-SS01(6")	ASTM D2974	PMST/11054		
60201209002	089467-081915-MM-SS02(6")	ASTM D2974	PMST/11054		
60201209003	089467-081915-MM-SS03(6")	ASTM D2974	PMST/11054		
60201209004	089467-081915-MM-SS04(6")	ASTM D2974	PMST/11054		
60201209005	089467-081915-MM-SS05(6")	ASTM D2974	PMST/11054		
60201209006	089467-081915-MM-SS06(6")	ASTM D2974	PMST/11054		
60201209007	089467-081915-MM-SS07(6")	ASTM D2974	PMST/11054		
60201209008	089467-081915-MM-SS08(6")	ASTM D2974	PMST/11054		
60201209009	089467-081915-MM-SS09(6")	ASTM D2974	PMST/11054		
60201209010	089467-081915-MM-SS10(6")	ASTM D2974	PMST/11054		
60201209011	089467-081915-MM-SS11(6")	ASTM D2974	PMST/11054		
60201209012	089467-081915-MM-SS12(6")	ASTM D2974	PMST/11054		
60201209013	089467-081915-MM-SS13(6")	ASTM D2974	PMST/11054		
60201209014	089467-081915-MM-SS14(6")	ASTM D2974	PMST/11054		
60201209015	089467-081915-MM-SS15(6")	ASTM D2974	PMST/11054		
60201209016	089467-081915-MM-SS16(6")	ASTM D2974	PMST/11054		
60201209017	089467-081915-MM-SS17(6")	ASTM D2974	PMST/11054		
60201209018	089467-081915-MM-SS18(6")	ASTM D2974	PMST/11054		
60201209019	089467-081915-MM-SS19(6")	ASTM D2974	PMST/11054		
60201209020	089467-081915-MM-SS20(6")	ASTM D2974	PMST/11054		
60201209021	089467-081915-MM-SS21(6")	ASTM D2974	PMST/11055		
60201209022	089467-082015-MM-SS35(6")	ASTM D2974	PMST/11055		
60201209023	089467-082015-MM-SS35(18-24")	ASTM D2974	PMST/11055		
60201209024	089467-082015-MM-SS35(32-36")	ASTM D2974	PMST/11055		
60201209025	089467-082015-MM-SS34(6")	ASTM D2974	PMST/11055		
60201209026	089467-082015-MM-SS34(18-24")	ASTM D2974	PMST/11055		
60201209027	089467-082015-MM-SS34(32-36")	ASTM D2974	PMST/11055		
60201209028	089467-082015-MM-SS32(6")	ASTM D2974	PMST/11055		

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60201209029	089467-082015-MM-SS32(18-24")	ASTM D2974	PMST/11055		
60201209030	089467-082015-MM-SS32(32-36")	ASTM D2974	PMST/11055		
60201209031	089467-082015-MM-SS31(6")	ASTM D2974	PMST/11055		
60201209032	089467-082015-MM-SS31(18-24")	ASTM D2974	PMST/11055		
60201209033	089467-082015-MM-SS31(32-36")	ASTM D2974	PMST/11055		
60201209034	089467-082015-MM-SS30(6")	ASTM D2974	PMST/11055		
60201209035	089467-082015-MM-SS30(18-24")	ASTM D2974	PMST/11055		
60201209036	089467-082015-MM-SS30(32-36")	ASTM D2974	PMST/11055		
60201209037	089467-082015-MM-SS33(6")	ASTM D2974	PMST/11055		
60201209038	089467-082015-MM-SS33(18-24")	ASTM D2974	PMST/11055		
60201209039	089467-082015-MM-SS33(32-36")	ASTM D2974	PMST/11055		
60201209040	089467-082015-MM-SS22(6")	ASTM D2974	PMST/11055		
60201209041	089467-082015-MM-SS22(18-24")	ASTM D2974	PMST/11056		
60201209042	089467-082015-MM-SS22(32-36")	ASTM D2974	PMST/11056		
60201209043	089467-082015-MM-SS25(6")	ASTM D2974	PMST/11056		
60201209044	089467-082015-MM-SS26(6")	ASTM D2974	PMST/11056		
60201209045	089467-082015-MM-SS27(6")	ASTM D2974	PMST/11056		
60201209046	089467-082015-MM-SS28(6")	ASTM D2974	PMST/11056		
60201209047	089467-082015-MM-SS29(6")	ASTM D2974	PMST/11056		
60201209048	089467-082015-MM-SS36(6")	ASTM D2974	PMST/11056		
60201209049	089467-082015-MM-SS36(18-24")	ASTM D2974	PMST/11056		
60201209050	089467-082015-MM-SS37(6")	ASTM D2974	PMST/11056		
60201209051	089467-082015-MM-SS37(18-24")	ASTM D2974	PMST/11056		
60201209052	089467-082015-MM-SS37(32-36")	ASTM D2974	PMST/11056		
60201209053	089467-082015-MM-DUP02	ASTM D2974	PMST/11056		
60201209054	089467-082115-MM-SS38(6")	ASTM D2974	PMST/11056		
60201209055	089467-082115-MM-SS38(18-24")	ASTM D2974	PMST/11056		
60201209056	089467-082115-MM-SS38(32-36")	ASTM D2974	PMST/11056		
60201209057	089467-082115-MM-SS39(6")	ASTM D2974	PMST/11056		
60201209058	089467-082115-MM-SS39(18-24")	ASTM D2974	PMST/11056		
60201209059	089467-082115-MM-SS40(6")	ASTM D2974	PMST/11056		
60201209060	089467-082115-MM-SS46(6")	ASTM D2974	PMST/11056		
60201209061	089467-082115-MM-SS46(18-24")	ASTM D2974	PMST/11058		
60201209062	089467-082115-MM-SS41(6")	ASTM D2974	PMST/11058		
60201209063	089467-082115-MM-SS42(6")	ASTM D2974	PMST/11058		
60201209064	089467-082115-MM-SS43(6")	ASTM D2974	PMST/11058		
60201209065	089467-082115-MM-SS44(6")	ASTM D2974	PMST/11058		
60201209066	089467-082115-MM-SS45(6")	ASTM D2974	PMST/11058		
60201209067	089467-082115-MM-DUP01	ASTM D2974	PMST/11058		
60201209068	089467-082115-MM-DUP03	ASTM D2974	PMST/11058		
60201209001	089467-081915-MM-SS01(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209002	089467-081915-MM-SS02(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209003	089467-081915-MM-SS03(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209004	089467-081915-MM-SS04(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209005	089467-081915-MM-SS05(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209006	089467-081915-MM-SS06(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209007	089467-081915-MM-SS07(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60201209008	089467-081915-MM-SS08(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209009	089467-081915-MM-SS09(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209010	089467-081915-MM-SS10(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209011	089467-081915-MM-SS11(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209012	089467-081915-MM-SS12(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209013	089467-081915-MM-SS13(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209014	089467-081915-MM-SS14(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209015	089467-081915-MM-SS15(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209016	089467-081915-MM-SS16(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209017	089467-081915-MM-SS17(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209018	089467-081915-MM-SS18(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209019	089467-081915-MM-SS19(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209020	089467-081915-MM-SS20(6")	EPA 9056	WETA/35641	EPA 9056	WETA/35669
60201209021	089467-081915-MM-SS21(6")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209022	089467-082015-MM-SS35(6")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209023	089467-082015-MM-SS35(18-24")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209024	089467-082015-MM-SS35(32-36")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209025	089467-082015-MM-SS34(6")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209026	089467-082015-MM-SS34(18-24")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209027	089467-082015-MM-SS34(32-36")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209028	089467-082015-MM-SS32(6")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209029	089467-082015-MM-SS32(18-24")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209030	089467-082015-MM-SS32(32-36")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209031	089467-082015-MM-SS31(6")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209032	089467-082015-MM-SS31(18-24")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209033	089467-082015-MM-SS31(32-36")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209034	089467-082015-MM-SS30(6")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209035	089467-082015-MM-SS30(18-24")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209036	089467-082015-MM-SS30(32-36")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209037	089467-082015-MM-SS33(6")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209038	089467-082015-MM-SS33(18-24")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209039	089467-082015-MM-SS33(32-36")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209040	089467-082015-MM-SS22(6")	EPA 9056	WETA/35642	EPA 9056	WETA/35673
60201209041	089467-082015-MM-SS22(18-24")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209042	089467-082015-MM-SS22(32-36")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209043	089467-082015-MM-SS25(6")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209044	089467-082015-MM-SS26(6")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209045	089467-082015-MM-SS27(6")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209046	089467-082015-MM-SS28(6")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209047	089467-082015-MM-SS29(6")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209048	089467-082015-MM-SS36(6")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209049	089467-082015-MM-SS36(18-24")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209050	089467-082015-MM-SS37(6")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209051	089467-082015-MM-SS37(18-24")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209052	089467-082015-MM-SS37(32-36")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209053	089467-082015-MM-DUP02	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209054	089467-082115-MM-SS38(6")	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209055	089467-082115-MM-SS38(18-24")	EPA 9056	WETA/35643	EPA 9056	WETA/35674

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 089467 VACUUM ABO BATTERY #3
Pace Project No.: 60201209

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60201209056	**089467-082115-MM-SS38(32-36")**	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209057	**089467-082115-MM-SS39(6")**	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209058	**089467-082115-MM-SS39(18-24")**	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209059	**089467-082115-MM-SS40(6")**	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209060	**089467-082115-MM-SS46(6")**	EPA 9056	WETA/35643	EPA 9056	WETA/35674
60201209061	**089467-082115-MM-SS46(18-24")**	EPA 9056	WETA/35644	EPA 9056	WETA/35670
60201209062	**089467-082115-MM-SS41(6")**	EPA 9056	WETA/35644	EPA 9056	WETA/35670
60201209063	**089467-082115-MM-SS42(6")**	EPA 9056	WETA/35644	EPA 9056	WETA/35670
60201209064	**089467-082115-MM-SS43(6")**	EPA 9056	WETA/35644	EPA 9056	WETA/35670
60201209065	**089467-082115-MM-SS44(6")**	EPA 9056	WETA/35644	EPA 9056	WETA/35670
60201209066	**089467-082115-MM-SS45(6")**	EPA 9056	WETA/35644	EPA 9056	WETA/35670
60201209067	**089467-082115-MM-DUP01**	EPA 9056	WETA/35644	EPA 9056	WETA/35670
60201209068	**089467-082115-MM-DUP03**	EPA 9056	WETA/35644	EPA 9056	WETA/35670

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt
ESI Tech Spec Client

WO# : 60201209

60201209

Client Name: GHD

Optional
Proj Due Date:
Proj Name:

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

Tracking #: 7811 9693 0157 7811 9701 8283 - 7811 9694 4576
7811 9699 7282 - 7811 9694 3010
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: CF +1.4 T-239 / CF +0.5 T-262 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.4/3.6 | 2.4/4.6/4.9

Date and initials of person examining contents: pvb 8/25/15

Temperature should be above freezing to 6°C

Chain of Custody present:	☒Yes ☐No ☐N/A	1. Sample 051 ID should be SS37(18-24)
Chain of Custody filled out:	☒Yes ☐No ☐N/A	2. Sample 052 ID ~~should~~ should be SS37(32-36) pvb 8/22/15
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12. Samples receive with TB
Sample labels match COC:	☒Yes ☐No ☐N/A	1 = TB1
Includes date/time/ID/analyses Matrix: SL		13. 11 = TB2
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☐Yes ☒No	Initial when completed / Lot # of added preservative
Trip Blank present:	☒Yes ☐No ~~☐N/A~~	
Pace Trip Blank lot # (if purchased): 042015-3 pvb 8/22/15		15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☒N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AAF Date: 08/24/15

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.

Start: 1000	Start:
End: 1020	End:
Temp:	Temp:

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company:	GHD Services COP TX
Address:	1755 Wittington Place Suite 500
	Dallas, TX 75234
Email To:	moshghan.mansoori@ghd.com
Phone: 972-331-8500	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Moshghan Mansoori
Copy To:	Morgan McCall morgan.mccall@ghd.com
Purchase Order No.:	
Project Name:	Vacuum ABO Battery #3
Project Number:	89467

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: DRO 8015	GRO 8015	Chloride/Moisture	BTEX 8260											Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	089467-081915-MM-SS01(6")	SL	G	8/19/15	10:30				2	2									X	X	X	X		2WGFU								N	See SSOW a1
2	089467-081915-MM-SS02(6")	SL	G	8/19/15	10:45				2	2									X	X	X	X											N	a2
3	089467-081915-MM-SS03(6")	SL	G	8/19/15	11:05				2	2									X	X	X	X											N	a3
4	089467-081915-MM-SS04(6")	SL	G	8/19/15	11:15				2	2									X	X	X	X											N	a4
5	089467-081915-MM-SS05(6")	SL	G	8/19/15	11:30				2	2									X	X	X	X											N	a5
6	089467-081915-MM-SS06(6")	SL	G	8/19/15	11:45				2	2									X	X	X	X											N	a6
7	089467-081915-MM-SS07(6")	SL	G	8/19/15	12:00				2	2									X	X	X	X											N	a7
8	089467-081915-MM-SS08(6")	SL	G	8/19/15	12:15				2	2									X	X	X	X											N	a8
9	089467-081915-MM-SS09(6")	SL	G	8/19/15	12:20				2	2									X	X	X	X											N	a9
10	089467-081915-MM-SS10(6")	SL	G	8/19/15	13:10				2	2									X	X	X	X											N	a10
11	089467-081915-MM-SS11(6")	SL	G	8/19/15	13:25				2	2									X	X	X	X											N	a11
12	089467-081915-MM-SS12(6")	SL	G	8/19/15	13:35				2	2									X	X	X	X											N	a12

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	GHD	8/21/15	13:30	PACE	8/22/15	0825	2.4	X	X	X
							3.0			
							2.4			
							4.6			
							4.9			
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Morgan McCall

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 08/21/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A — **Required** Client Information:

Company:	GHD Services COP TX
Address:	1755 Wittington Place Suite 500
	Dallas, TX 75234
Email To:	moshghan.mansoori@ghd.com
Phone: 972-331-8500	Fax:
Requested Due Date/TAT:	

Section B — **Required** Project Information:

Report To:	Moshghan Mansoori
Copy To:	Morgan McCall morgan.mccall@ghd.com
Purchase Order No.:	
Project Name:	Vacuum ABO Battery #3
Project Number:	89467

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Section D — **Required** Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DRO 8015	GRO 8015	Chloride/Moisture	BTEX 8260									Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	089467-081915-MM-SS13(6")	SL	G	8/19/15	13:40				2	2								X	X	X	X			2W6Fu						N	See SSOW 013
2	089467-081915-MM-SS14(6")	SL	G	8/19/15	14:10				2	2								X	X	X	X									N	014
3	089467-081915-MM-SS15(6")	SL	G	8/19/15	14:25				2	2								X	X	X	X									N	015
4	089467-081915-MM-SS16(6")	SL	G	8/19/15	14:35				2	2								X	X	X	X									N	016
5	089467-081915-MM-SS17(6")	SL	G	8/19/15	14:55				2	2								X	X	X	X									N	017
6	089467-081915-MM-SS18(6")	SL	G	8/19/15	15:10				2	2								X	X	X	X									N	018
7	089467-081915-MM-SS19(6")	SL	G	8/19/15	15:20				2	2								X	X	X	X									N	019
8	089467-081915-MM-SS20(6")	SL	G	8/19/15	15:35				2	2								X	X	X	X									N	020
9	089467-081915-MM-SS21(6")	SL	G	8/19/15	15:55				2	2								X	X	X	X			✓						N	021
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	GHD	8/21/15	13:30		8/22/15	0825	2.4	Y	Y	Y	
							3.0				
							2.4				
							4.6				
							4.9	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
							Temp in °C				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Morgan McCall

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 08/21/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company:	GHD Services COP TX
Address:	1755 Wittington Place Suite 500
	Dallas, TX 75234
Email To:	moshghan.mansoori@ghd.com
Phone: 972-331-8500	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Moshghan Mansoori
Copy To:	Morgan McCall morgan.mccall@ghd.com
Purchase Order No.:	
Project Name:	Vacuum ABO Battery #3
Project Number:	89467

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: DRO 8015	GRO 8015	Chloride/Moisture	BTEX 8260								Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	089467-082015-MM-SS35(6")	SL	G	8/20/15	8:15				2	2									X	X	X	X		2W5FCl					N	See SSOW 022
2	089467-082015-MM-SS35(18-24")	SL	G	8/20/15	8:20				2	2									X	X	X	X							N	023
3	089467-082015-MM-SS35(32-36")	SL	G	8/20/15	8:25				2	2									X	X	X	X							N	024
4	089467-082015-MM-SS34(6")	SL	G	8/20/15	8:40				2	2									X	X	X	X							N	025
5	089467-082015-MM-SS34(18-24")	SL	G	8/20/15	8:45				2	2									X	X	X	X							N	026
6	089467-082015-MM-SS34(32-36")	SL	G	8/20/15	8:50				2	2									X	X	X	X							N	027
7	089467-082015-MM-SS32(6")	SL	G	8/20/15	9:00				2	2									X	X	X	X							N	028
8	089467-082015-MM-SS32(18-24")	SL	G	8/20/15	9:05				2	2									X	X	X	X							N	029
9	089467-082015-MM-SS32(32-36")	SL	G	8/20/15	9:10				2	2									X	X	X	X							N	030
10	089467-082015-MM-SS31(6")	SL	G	8/20/15	9:25				2	2									X	X	X	X							N	031
11	089467-082015-MM-SS31(18-24")	SL	G	8/20/15	9:30				2	2									X	X	X	X							N	032
12	089467-082015-MM-SS31(32-36")	SL	G	8/20/15	9:35				2	2									X	X	X	X							N	033

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	GHD	8/21/15	13:30		8/22/15	0825

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2-4	Y	Y	Y
3-0			
2-4			
4-6			
4-9			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Morgan McCall

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 08/21/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company:	GHD Services COP TX
Address:	1755 Wittington Place Suite 500
	Dallas, TX 75234
Email To:	moshghan.mansoori@ghd.com
Phone: 972-331-8500	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Moshghan Mansoori
Copy To:	Morgan McCall morgan.mccall@ghd.com
Purchase Order No.:	
Project Name:	Vacuum ABO Battery #3
Project Number:	89467

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: DRO 8015	GRO 8015	Chloride/Moisture	BTEX 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	089467-082015-MM-SS30(6")	SL	G	8/20/15	9:55				2	2									X	X	X	X	N	See SSOW 034
2	089467-082015-MM-SS30(18-24")	SL	G	8/20/15	10:00				2	2									X	X	X	X	N	035
3	089467-082015-MM-SS30(32-36")	SL	G	8/20/15	10:05				2	2									X	X	X	X	N	036
4	089467-082015-MM-SS33(6")	SL	G	8/20/15	10:50				2	2									X	X	X	X	N	037
5	089467-082015-MM-SS33(18-24")	SL	G	8/20/15	10:55				2	2									X	X	X	X	N	038
6	089467-082015-MM-SS33(32-36")	SL	G	8/20/15	11:00				2	2									X	X	X	X	N	039
7	089467-082015-MM-SS22(6")	SL	G	8/20/15	11:25				2	2									X	X	X	X	N	040
8	089467-082015-MM-SS22(18-24")	SL	G	8/20/15	11:30				2	2									X	X	X	X	N	041
9	089467-082015-MM-SS22(32-36")	SL	G	8/20/15	11:35				2	2									X	X	X	X	N	042
10	089467-082015-MM-SS25(6")	SL	G	8/20/15	12:10				2	2									X	X	X	X	N	043
11	089467-082015-MM-SS26(6")	SL	G	8/20/15	13:10				2	2									X	X	X	X	N	044
12	089467-082015-MM-SS27(6")	SL	G	8/20/15	13:20				2	2									X	X	X	X	N	045

2WGFU

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	GHD	8/21/15	13:30		8/22/15	0825	2-4
							3-0
							2-4
							4-6

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
4.9	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Morgan McCall

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 08/21/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GHD Services COP TX	Report To:	Moshghan Mansoori	Attention:	
Address:	1755 Wittington Place Suite 500	Copy To:	Morgan McCall morgan.mccall@ghd.com	Company Name:	
	Dallas, TX 75234			Address:	
Email To:	moshghan.mansoori@ghd.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	972-331-8500 Fax:	Project Name:	Vacuum ABO Battery #3	Pace Project Manager:	Alice Flanagan
Requested Due Date/TAT:		Project Number:	89467	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DRO 8015	GRO 8015	Chloride/Moisture	BTEX 8260								Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	089467-082015-MM-SS28(6")	SL	G	8/20/15	13:45				2	2									X	X	X	X	2W 6Fm							N	See SSOW 046
2	089467-082015-MM-SS29(6")	SL	G	8/20/15	13:55				2	2									X	X	X	X								N	047
3	089467-082015-MM-SS36(6")	SL	G	8/20/15	14:45				2	2									X	X	X	X								N	048
4	089467-082015-MM-SS36(18-24")	SL	G	8/20/15	14:50				2	2									X	X	X	X								N	049
5	089467-082015-MM-SS37(6")	SL	G	8/20/15	15:05				2	2									X	X	X	X								N	050
6	089467-082015-MM-SS33(18-24")	SL	G	8/20/15	15:10				2	2									X	X	X	X								N	051
7	089467-082015-MM-SS22(32-36")	SL	G	8/20/15	15:15				2	2									X	X	X	X								N	052
8	089467-082015-MM-DUP02	SL	G	8/20/15					2	2									X	X	X	X								N	053
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / GHD	08/21/15	13:30	[signature]	8/22/15	0825	2.4	Y	Y	Y
							3.0			
							2.4			
							4.6			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Morgan McCall

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 08/21/15

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
4.9	Y	Y	Y

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A — Required Client Information:

Company:	GHD Services COP TX
Address:	1755 Wittington Place Suite 500, Dallas, TX 75234
Email To:	moshghan.mansoori@ghd.com
Phone:	972-331-8500
Fax:	
Requested Due Date/TAT:	

Section B — Required Project Information:

Report To:	Moshghan Mansoori
Copy To:	Morgan McCall morgan.mccall@ghd.com
Purchase Order No.:	
Project Name:	Vacuum ABO Battery #3
Project Number:	89467

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DRO 8015	GRO 8015	Chloride/Moisture	BTEX 8260		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	089467-082115-MM-SS38(6")	SL	G	8/21/15	7:15				2	2									X	X	X	X	2 wk TAT	N	See SSOW 054
2	089467-082115-MM-SS38(18-24")	SL	G	8/21/15	7:20				2	2									X	X	X	X		N	055
3	089467-082115-MM-SS38(22-36")	SL	G	8/21/15	7:35				2	2									X	X	X	X		N	056
4	089467-082115-MM-SS39(6")	SL	G	8/21/15	8:15				2	2									X	X	X	X		N	057
5	089467-082115-MM-SS39(18-24")	SL	G	8/21/15	8:20				2	2									X	X	X	X		N	058
6	089467-082115-MM-SS40(6")	SL	G	8/21/15	8:40				2	2									X	X	X	X		N	059
7	089467-082115-MM-SS46(6")	SL	G	8/21/15	0900				2	2									X	X	X	X		N	060
8	089467-082115-MM-SS46(18-24")	SL	G	8/21/15	9:05				2	2									X	X	X	X		N	061
9	089467-082115-MM-SS41(6")	SL	G	8/21/15	9:20				2	2									X	X	X	X		N	062
10	089467-082115-MM-SS42(6")	SL	G	8/21/15	9:50				2	2									X	X	X	X		N	063
11	089467-082115-MM-SS43(6")	SL	G	8/21/15	10:15				2	2									X	X	X	X		N	064
12	089467-082115-MM-SS44(6")	SL	G	8/21/15	10:45				2	2									X	X	X	X		N	065

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] / GHD	8/21/15	13:30	[signature] / PASI	8/22/15	0825	2.4	Y	Y	Y
							3.0			
							2.4			
							4.6			
							4.9			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Morgan McCall

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 08/21/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 7 of 7

Section A Required Client Information:

Company:	GHD Services COP TX
Address:	1755 Wittington Place Suite 500
	Dallas, TX 75234
Email To:	moshghan.mansoori@ghd.com
Phone: 972-331-8500	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Moshghan Mansoori
Copy To:	Morgan McCall morgan.mccall@ghd.com
Purchase Order No.:	
Project Name:	Vacuum ABO Battery #3
Project Number:	89467

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DRO 8015	GRO 8015	Chloride/Moisture	BTEX 8260					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	089467-082115-MM-SS45 (6")	SL	G	8/21/15	10:55				2	2								X	X	X	X		2W	GFU		N	See SSOW 066
2	089467-082115-MM-DuP01	SL	G	8/21/15					2	2								X	X	X	X					N	067
3	089467-082115-MM-DuP03	SL	G	8/21/15					2	2								X	X	X	X					N	068
4																											2W FAU TB 1 069
5																											2W GAU TB 2 070
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	GHD	8/21/15	13:30		8/25/15	0825	2.4	Y	Y	Y
							3.0			
							2.4			
							4.6			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Morgan McCall

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 08/21/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007