3R - 425

REPORT

11/28/2011

3R425

SITE CHARACTERIZATION REPORT

SAN JUAN 29-7 UNIT 37
RIO ARRIBA COUNTY, NEW MEXICO

Prepared For:

ConocoPhillips Company
Risk Management and Remediation
420 South Keeler Avenue
Bartlesville, Oklahoma 74004

NOVEMBER 2011
REF. NO. 075034 (3)
This report is printed on recycled paper.

TABLE OF CONTENTS

			Page
1.0	INTRODUCTION		1
	1.1	SITE HISTORY	1
	1.2	SITE SETTING	1
2.0	SITE CHARACTERIZATION		3
	2.1	SOIL INVESTIGATION RESULTS	3
	2.2	GROUNDWATER INVESTIGATION RESULTS	5
	2.2.1	GROUNDWATER ANALYTICAL RESULTS	6
	2.3	QA/QC RESULTS	8
	2.4	INVESTIGATIVE DERIVED WASTE	8
3.0	RECOMMENDATIONS		9

LIST OF FIGURES
(Following Text)

FIGURE 1	SITE LOCATION MAP
FIGURE 2	SOIL BORING LOCATION MAP
FIGURE 3	SOIL BORING ANALYTICAL RESULTS MAP
FIGURE 4	GROUNDWATER ANALYTICAL RESULTS MAP
FIGURE 5a	GENERALIZED GEOLOGIC CROSS SECTION A-A'
FIGURE 5b	GENERALIZED GEOLOGIC CROSS SECTION B-B'
FIGURE 6	GROUNDWATER POTENTIOMETRIC SURFACE MAP AUGUST 2011
FIGURE 7	GROUNDWATER POTENTIOMETRIC SURFACE MAP OCTOBER 2011
FIGURE 8	SOIL IMPACTS MAP

LIST OF TABLES
(Following Text)

TABLE 1	SOIL ANALYTICAL RESULTS SUMMARY
TABLE 2	GROUNDWATER ELEVATIONS AND ANALYTICAL SUMMARY

LIST OF APPENDICES

APPENDIX A	LABORATORY REPORTS
APPENDIX B	BORING LOGS AND WELL COMPLETION DIAGRAMS
APPENDIX C	GROUNDWATER SAMPLING FIELD FORMS

1.0 INTRODUCTION

ConocoPhillips Company (ConocoPhillips) retained Conestoga-Rovers & Associates (CRA) to conduct site characterization activities at the San Juan 29-7 Unit 37 natural gas well (Site). The Site is located within Unit Letter N, Section 12, Township 29N, Range 7W, Rio Arriba County, New Mexico (Latitude: 36.73552° N; Longitude: -107.52488° W) (Figure 1).

Site characterization activities were conducted at the Site to delineate soil and groundwater impacted by a release that occurred from an above-ground condensate tank during August 2010 (Figure 2). Hydrocarbon impacts from the release that exceeded state standards included benzene, toluene and total xylenes in groundwater and total benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbons gasoline range organics (TPH-GRO), and total petroleum hydrocarbons diesel range organics (TPH-DRO) in the vadose zone soil. Soil impacts were delineated to a maximum depth of approximately 110 feet-below ground surface (ft-bgs). Groundwater was impacted in the immediate area of the release and extended to approximately 60 feet down-gradient from the release.

1.1 SITE HISTORY

The surface of the Site is owned by Mr. Richard Hodgson and is leased by ConocoPhillips. The San Juan 29-7 Unit 37 natural gas well was spudded in October 1955 by El Paso Natural Gas Company. Meridian Oil, Inc., a subsidiary of Burlington Resources, Inc. (Burlington), took over the operation of the well on November 1, 1986. ConocoPhillips acquired Burlington on March 31, 2006. The well is currently operated by ConocoPhillips. A Site detail map is included as Figure 2.

ConocoPhillips discovered a leaking inspection plate gasket on the above-ground condensate tank on August 26, 2010 (Figure 2). Approximately 23 barrels (bbls) of condensate were released and fully contained within the berm; however, no liquids were recovered. The release was immediately reported to the New Mexico Oil Conservation Division (NMOCD) with a C-141 Release Notification and Corrective Action form filed by ConocoPhillips on September 16, 2010.

1.2 SITE SETTING

The Site is located in Rio Arriba County, New Mexico, on privately-owned ranch land. The elevation at the Site is approximately 6,292 feet above mean sea level (amsl). The

Tertiary-aged San Jose Formation crops out as sandstone bluffs visible to the north and south of the Site and locally reaching an elevation of approximately 6,652 feet amsl.

Soils at the Site consist primarily of silts, sands and clays. Groundwater is located at approximately 110 feet below ground surface (ft-bgs) and locally flows towards the south. Regional groundwater flow is not known, but according to the United States Geological Survey Delgadita Mesa, NM topographic map, if groundwater flow mimics topography, it likely trends toward the south/southeast.

An Environmental Data Resources (EDR) report on the subject property identified the Gould Pass National Wetland Inventory within a one mile radius of the Site. According to the EDR radius map included in the report, the largest section of the Wetland Inventory is located upgradient of the Site.

2.0 SITE CHARACTERIZATION

The release from the above-ground storage tank was initially addressed by excavating impacted soil, followed by subsurface soil sampling and groundwater monitoring and sampling.

2.1 SOIL INVESTIGATION RESULTS

Following the discovery of the release of condensate from the above-ground tank at the site; Envirotech, Inc. (Envirotech) of Farmington, New Mexico excavated soil from the area below the tank location. Between September 24, 2010 and January 3, 2011, Envirotech excavated approximately 5,100 cubic yards (yd^3) of soil. The excavation measured approximately 70 ft by 120 ft by 30 ft deep (Figure 2). The horizontal extent of the hydrocarbon-impacted area was not determined and the vertical delineation of the impacted area was not achieved at that time. For practical and safety reasons and due to limitations posed by surface structures, the vertical extent of the excavation was halted at approximately 30 ft-bgs. The excavation was subsequently back filled with clean soil. Excavated soil was hauled to a ConocoPhillips approved landfarm for treatment.

To further delineate vertical impact of the release, Tetra Tech Inc. sampled subsurface conditions in the impacted area and in close proximity to the release point (soil boring B-1) between January 12 and 14, 2011 (Figure 2). Impacts were noted in the soil above the NMOCD recommended field screening level for organic vapors (100 ppm) from 30 ft-bgs to the total depth of the soil boring at 129.5 ft-bgs. A dry shale layer and auger refusal were encountered and a photoionization detector (PID) reading of 0.5 ppm was observed at this depth. Groundwater was encountered at approximately 111 ft-bgs in the boring. From this soil boring, seven soil samples and one groundwater sample were collected for laboratory analysis. Laboratory analytical results of the soil from this boring indicated the sample from a depth of 30 to 32 feet-bgs exceeded the NMOCD Recommended Remediation Action Levels for BTEX and TPH. The Total BTEX concentration was 433.25 mg/kg and the TPH concentration was 5680 mg/kg.

Between February 28 and March 4, 2011, Tetra Tech advanced two additional soil borings in the area of the release and installed four soil borings/monitoring wells (MW-1 through MW-4) at the Site. Soil samples were collected from all the borings for field screening and laboratory analyses. Two soil borings were advanced in or near the center of the previously excavated area.

Boring B-2 (Figure 3) was located approximately 20 ft north of MW-1 and was advanced to a depth of 120 ft-bgs. Field screening of soil samples indicated soil impacts above the NMOCD field screening action level (100 ppm) from a depth of 102 to 104 ft-bgs (222.9 ppm). The highest organic vapors in B-2 were recorded at a depth of 45 to 47 ft-bgs (6190 ppm).

Boring B-3 was advanced to a total depth of 57 ft-bgs. Field screened soil samples collected from boring B-3 were below 20 ppm to the total depth of 57 ft-bgs. This boring was called "North Boring" in early field data records.

Soil samples were collected for laboratory analysis from the soil borings for all four monitoring wells and B-2 (Table 1 and Figure 3). No samples were collected for laboratory analysis from B-3 since no hydrocarbon impacts were observed and groundwater was not encountered. Soil sample analytical results that were above the regulatory levels for this phase of the Site characterization were found at the following locations and depths:

- B-2 at a depth of 45 to 47 ft-bgs; and
- MW-1 at a depth of 50 to 52 ft-bgs.

Monitoring Well MW-1 was installed approximately 20 ft south of B-2, where elevated organic vapors were encountered. Three additional monitoring wells (MW-2, MW-3, and MW-4) were installed at the Site (Figure 2). Monitoring Well MW-4 was installed as a background water quality well in a location upgradient of the release area. Monitoring wells MW-3 and MW-4 were installed in locations downgradient of the release area. Groundwater was encountered in these wells at approximately 110 ft-bgs. The analytical results for these wells from the March 2011 groundwater sampling event indicated that only benzene was detected above the NMWQCC standard in one well (MW-1) at a concentration of 0.066 mg/L (Table 2 and Figure 4). Hydrocarbons were not detected above the NMWQCC groundwater quality standards in Monitoring Wells MW-2 through MW-4.

To further evaluate Site conditions and delineate impacts, 11 borings were advanced and four monitoring wells (MW-5 through MW-8) were installed at the Site during September and October 2011 (Figure 2). Soil borings were advanced in the area of the excavation. One monitoring well was installed upgradient of the release and three monitoring wells were installed downgradient of the release.

Field screening of soil samples and laboratory results indicated impacts (organic vapors > 100 ppm) in the immediate area of the release to depths ranging from 40 ft-bgs to 110 ft-bgs. The laboratory analysis of soil samples (Figure 3) indicated the following sample locations were above the NMOCD Recommended Remediation Action Levels of 50 mg/kg for BTEX and 100 mg/kg for TPH:

- B-4 at a depth of 58 to 60 ft-bgs with a Total BTEX concentration of 365 mg/kg and a TPH concentration of 5,010 mg/kg;
- B-5 at a depth of 51 to 53 ft-bgs with a Total BTEX concentration of 133 mg/kg and a TPH concentration of 1,566 mg/kg;
- B-6 at a depth of 107 to 108 ft-bgs with a TPH concentration of 121 mg/kg;
- B-7 at a depth of 20 to 22 ft-bgs with a TPH concentration of 2,726 mg/kg; and
- B-10 at a depth of 46 to 48 ft-bgs with a Total BTEX concentration of 1,515.5 mg/kg and a TPH concentration of 21,033 mg/kg;

The soil sample laboratory analytical results are summarized and presented in Table 1 and Figure 3. Soil samples were collected for laboratory analyses as outlined in the work plan (August 2011). Laboratory reports are contained in Appendix A. Boring logs are contained in Appendix B. Generalized geologic cross sections are included as Figures 5a and 5b. The soil boring locations used to compile the cross sections are referenced on Figure 2.

2.2 GROUNDWATER INVESTIGATION RESULTS

The subsurface geology at the Site consists of alternating fine sands, silt and clay overlying shale. In general, groundwater occurs in a fine to medium grained sand just above the shale layer. A total of eight monitoring wells have been installed to characterize groundwater conditions at the Site. Two monitoring wells were installed upgradient of the release with one located upgradient of the entire site (MW-4) and one monitoring well located immediately upgradient of the release (MW-7). Two monitoring wells (MW-1 and MW-8) were installed within the area of the release and four monitoring wells (MW-2, MW-3, MW-5 and MW-6) were installed at various distances downgradient of the release. Monitoring well completion diagrams for wells installed during the September and October 2011 subsurface investigation (MW-5 through MW-8) are included in Appendix B.

Monitoring Wells MW-1, MW-2, MW-3 and MW-4 were surveyed by Tetra Tech, Inc. in March 2011, following their installation, and have been used to compile groundwater potentiometric surface maps for the August and October 2011 groundwater sampling events, which are presented as Figures 6 and 7, respectively. The direction of groundwater flow is toward the south and the calculated groundwater gradient for the most recent groundwater sampling event in October 2011 is 0.019 ft/ft.

2.2.1 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples from Monitoring Wells MW-1, MW-2, MW-3, and MW-4 were submitted for laboratory analyses in March, August and October 2011. During the March event, samples were analyzed for a baseline list of analytes including major ions by EPA Method 300.0; semi volatile organics (SVOCs) by EPA Method 8270C; volatile organics (VOCs) by EPA Method 8260B; general chemistry (alkalinity, hardness, total dissolved solids, and pH by various methods); New Mexico Water Quality Control Commission (NMWQCC) dissolved metals by EPA Method 6010B; and TPH GRO and DRO by EPA Method 8015B. All groundwater analytical results are summarized and presented in Table 2 and on Figure 4. Laboratory reports are contained in Appendix A. Appendix C contains the groundwater sampling field forms.

During the August 2011 event, samples were analyzed for constituents that exceeded the NMWQCC standards during the baseline analysis, which included BTEX by EPA Method 8260B, manganese and selenium by EPA Method 6010, nitrate and sulfate by EPA Method 300.0, and TDS by Method SM 2540C. Samples were also analyzed for TPH-DRO by EPA Method 8015B, TPH-GRO by EPA Method 5030B/8015B and heterotrophic plate count (HPC) by Method SM 9215B.

Groundwater samples were collected from open borings and newly installed monitoring wells (MW-5 through MW-8) during September 2011 and October 2011. During these events, samples were analyzed for BTEX by EPA Method 8260B, TPH-DRO by EPA Method 8015B, TPH-GRO by EPA Method 5030B/8015B. All site monitoring wells were sampled for HPC by Method 9215B during this event. All groundwater samples were collected for laboratory analyses from open borings and monitoring wells using a disposable, polyethylene bailer.

Laboratory analytical results of a groundwater sample collected on January 14, 2011 from the open boring, B-1, indicated that hydrocarbon impacts to groundwater were detected above the NMWQCC standards (Table 2). The following concentrations for this location were:

- Benzene 0.930 milligrams per liter (mg/L) (NMWQCC standard of 0.01 mg/L);
- Toluene 15 mg/L (NMWQCC standard of 0.75 mg/L);
- Ethylbenzene 1.4 mg/L (NMWQCC standard of 0.75 mg/L); and
- Total xylenes 18.8 mg/L (NMWQCC standard of 0.62 mg/L).

The laboratory analytical results for hydrocarbon constituents in groundwater samples collected from monitoring wells, and open borings where water accumulated, revealed the following locations (Figure 4) were above the NMWQCC standards:

- MW-1 indicated a benzene concentration of 0.066 mg/L in March 2011 and 0.0189 mg/L in August 2011;
- B-4 indicated a benzene concentration of 0.133 mg/L in September 2011;
- B-5/MW-8 indicated a benzene concentration of 0.297 mg/L, a toluene concentration of 0.954 mg/L, and a total xylenes concentration of 1.45 mg/L in September 2011;
- B-8 indicated a benzene concentration of 0.307 mg/L in October 2011 and a total xylenes concentration of 0.758 mg/L in October 2011;
- MW-6 indicated a benzene concentration of 0.0333 mg/L;
- MW-8 indicated a benzene concentration of 0.15 mg/L, a toluene concentration of 1.24 mg/L and a total xylenes concentration of 1.43 mg/L in October 2011.

In addition, groundwater samples from MW-1, MW-2, MW-3, and MW-4 were analyzed for dissolved manganese and selenium, sulfate, nitrate, and total dissolved solids (TDS) in March and August 2011. Manganese was detected above the NMWQCC standard (0.2 mg/L) in Monitoring Wells MW-1, MW-2 and MW-3. Selenium was detected above the NMWQCC standard (0.05 mg/L) in Monitoring Wells MW-2 and MW-3. Nitrates were detected above the NMWQCC standard (0.2 mg/L) in Monitoring Wells MW-2, MW-3 and MW-4. Sulfate and Total dissolved solids (TDS) were detected above the NMWQCC standards (600 mg/L and 1000 mg/L, respectively) in Monitoring Wells MW-1, MW-2, MW-3 and MW-4. The inorganic analytical results in groundwater are summarized in Table 2.

2.3 QA/QC RESULTS

Quality assurance/Quality Control (QA/QC) measures were followed according to the subsurface investigation work plan that was submitted to the NMOCD on August 31, 2011. The field PID was calibrated daily using 100 ppm isobutylene. An equipment blank and a field blank were collected on September 22, 2011. A duplicate groundwater sample was collected during the August and October 2011 groundwater sampling events. Each cooler that was shipped to the laboratory contained a temperature blank, laboratory prepared groundwater blank and laboratory prepared soil blank. The groundwater duplicate samples and all soil and groundwater blanks were analyzed for BTEX.

The soil blank packed in a cooler with samples from boring B-10 contained concentrations of BTEX. A laboratory prepared letter attributing these concentrations to the level of concentrations in the associated soil samples is available in Appendix A.

2.4 INVESTIGATIVE DERIVED WASTE

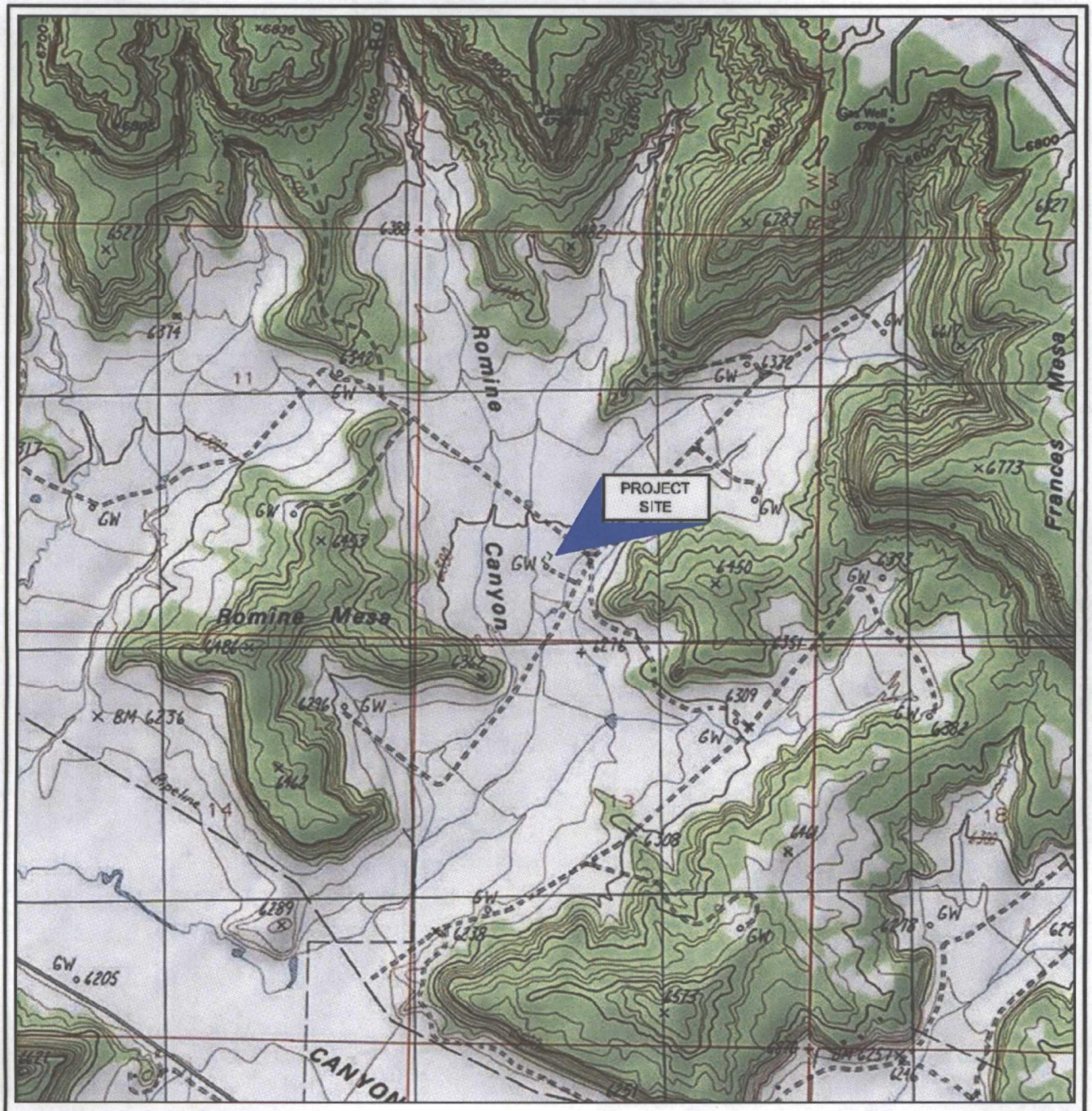
Soil cuttings were placed in 55 gallon drums and staged on site until transported for treatment at the Envirotech landfarm on October 20, 2011. Purged water collected during well development was placed in the produced water tank located on site.

3.0 RECOMMENDATIONS

Based on site characterization activities, CRA recommends remediation of soil and groundwater in the area of the release. A work plan detailing the proposed method, in situ chemical oxidation, was submitted to the NMOCD on November 28, 2011.

CRA will continue to monitor groundwater at the Site on a quarterly basis. The next groundwater sampling event is scheduled to occur after the completion of in situ chemical oxidation treatment, currently scheduled for mid-December 2011 through early January 2012. Groundwater samples will be collected from all Site monitoring wells and analyzed for BTEX, dissolved manganese and selenium, sulfate, nitrate, TDS, and HPC.

FIGURES



SOURCE: USGS 7.5 MINUTE QUAD
"DELGADITA MESA, NEW MEXICO"

N

0 1000 2000ft

CRA

FIGURE I
SITE LOCATION MAP
SAN JUAN 29-7 UNIT 37
UNIT LETTER N. SEC 12. T29N, R07W
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

075034-95(000)GN-DL001 NOV 1/2011

FIGURE 2
SOIL BORING LOCATION MAP

CONOCOPHILLIPS COMPANY
SAN JUAN 29-7 UNIT 37
GAS PRODUCTION WELL SITE
Unit Letter N, Sec 12, T29N, R07W
Rio Arriba County, New Mexico

LEGEND

- ConocoPhillips San Juan 29-7 Unit 37 Wellhead
- Boring Location
- Monitoring Well
- Approximate 2010 Excavation Location
- Approximate Location of Current San Juan 29-7 Unit 37 Tank Placement (aerial image shows prior tank placement)

A-A' Cross Section as seen in Figure 5a

B-B' Cross Section as seen in Figure 5b

N

0 20 40
FEET

CONESTOGA-ROVERS & ASSOCIATES

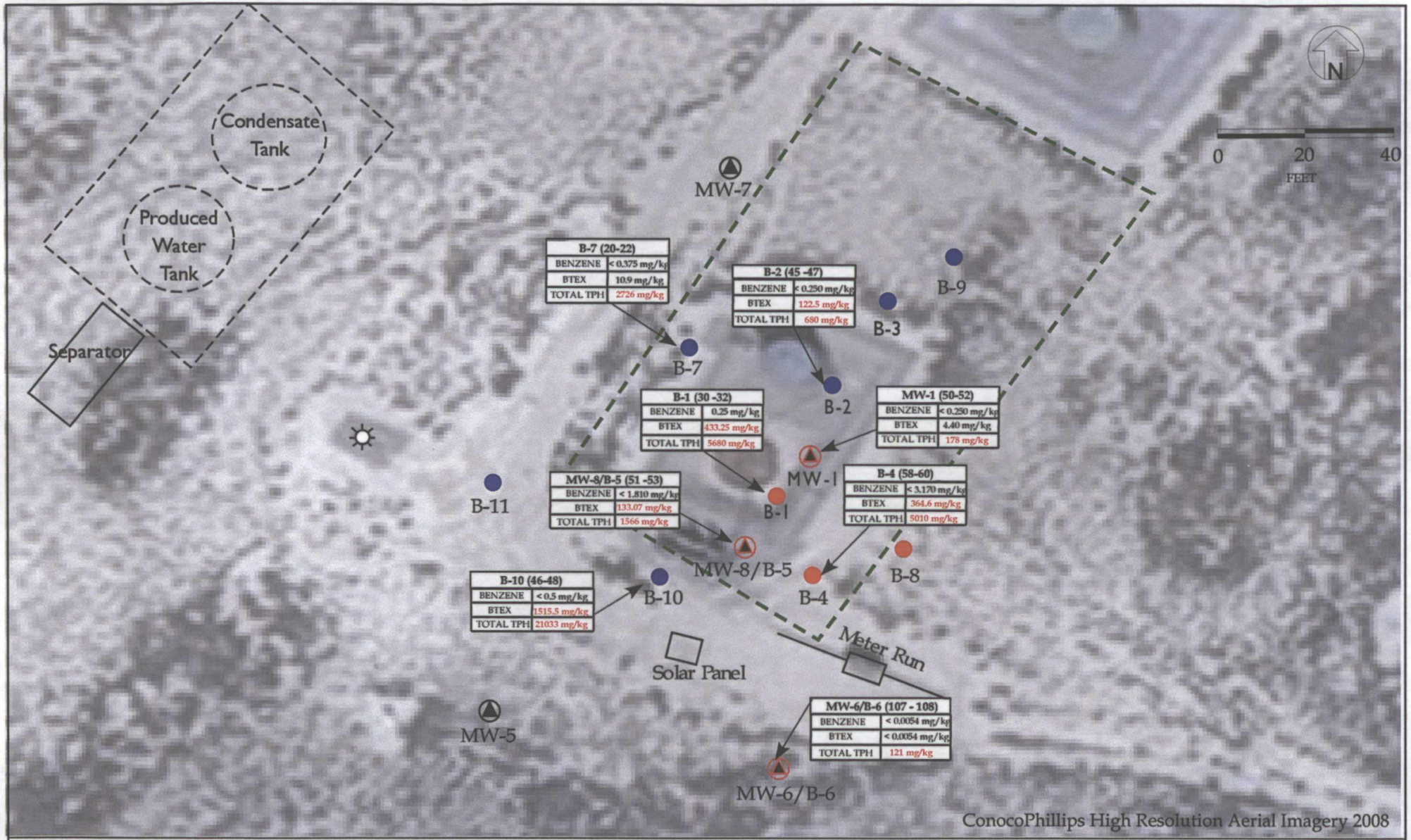


FIGURE 3
SOIL BORING ANALYTICAL RESULTS MAP

CONOCOPHILLIPS COMPANY
SAN JUAN 29-7 UNIT 37
GAS PRODUCTION WELL SITE
Unit Letter N, Sec 12, T29N, R07W
Rio Arriba County, New Mexico

LEGEND

- ConocoPhillips San Juan 29-7 Unit 37 Wellhead
- Boring Location
- Monitoring Well
- Approximate 2010 Excavation Location
- Monitoring Well with Groundwater Impacts
- Boring with Groundwater Impacts
- Approximate Location of Current San Juan 29-7 Unit 37 Tank Placement (aerial image shows prior tank placement)
- BOLD Exceeds New Mexico Oil Conservation Division (NMOCD) Recommended Remediation Action Levels

BENZENE	10 mg/kg
BTEX	50 mg/kg
TOTAL TPH	100 mg/kg

NMOCD Recommended Remeditaion Action Levels
Note* TPH standard considers combined concentrations of DRO and GRO

CONESTOGA-ROVERS & ASSOCIATES

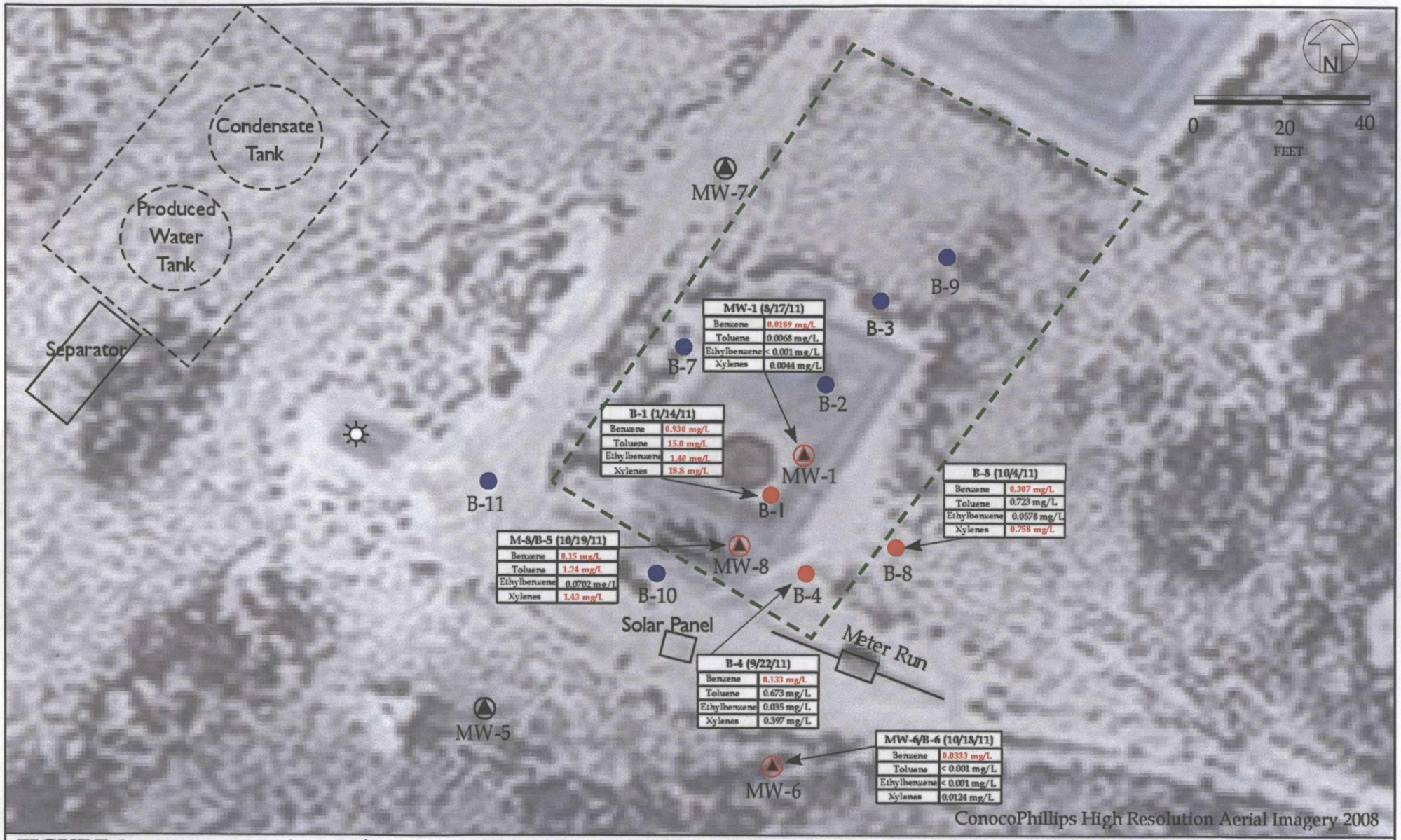


FIGURE 4
GROUNDWATER ANALYTICAL RESULTS MAP

CONOCOPHILLIPS COMPANY
SAN JUAN 29-7 UNIT 37
GAS PRODUCTION WELL SITE
Unit Letter N, Sec 12, T29N, R07W
Rio Arriba County, New Mexico

LEGEND

- ConocoPhillips San Juan 29-7 Unit 37 Wellhead
- Boring Location
- Monitoring Well
- Approximate 2010 Excavation Location
- Monitoring Well with Groundwater Impacts
- Boring with Groundwater Impacts
- Approximate Location of Current San Juan 29-7 Unit 37 Tank Placement (aerial image shows prior tank placement)
- **BOLD** Exceeds New Mexico Water Quality Control Commission (NMWQCC) Regulatory Standards

Benzene	0.01 mg/L
Toluene	0.750 mg/L
Ethylbenzene	0.750 mg/L
Xylenes	0.620 mg/L

NMWQCC Regulatory Standards

CONESTOGA-ROVERS & ASSOCIATES

A

A'

B-11

B-10

B-5/MW-8

B-1

B-4

B-8

Surface

Feet Below Ground Surface

APPROXIMATE WATER LEVEL

B-11: Excavated; SM; SP; SM; SP; SM; CL; SP; CH

B-10: Excavated; SM; CL; SM; SP; SM; SP; SM; SC; SP; CL; CH

B-5/MW-8: Fill; SC; SM; SP; SC; ML; SM; SC; SM; SP; SW

B-1: Fill; SC; ML; SM; SC; SP; CL; SM; SC; SP; SC; SH; SS; SH

B-4: Fill; SM; CL; SM; SP; SM; SP; SM; SP; GP; CL

B-8: Fill; SM; CL; SM; CL; SM; SP; SM; SP; SM; CL; SM; SM-SP; CL; SP; CL

B-11: 244.5; 365.2; 2552.0; 2595.0; 2364.0; 2095.0; 2447.0; 2569.0; 932.7; 418.9; 424.7; 790.7; 105.7; 697.4; 124.8; 389.0; 107.4; 209.4

B-10: 2805.0; 2410.0; 3077.0; 1733.0; 1618.0; 1331.0; 1546.0; 2546.0; 1689.0; 2367.0; 2402.0; 2259.0; 2120.0; 1766.0; 2260.0; 2122.0; 2240.0; 1219.0; 666.1; 1704.0; 1577.0; 130.9; 131.0; 110.3; 544.2; 210.1

B-5/MW-8: 2686.0; 467.0; 346.0; 103.0; 485.0; 722.0

B-1: 2754.0; 2375.0; 2383.0; 2290.0; 2301.0; 2141.0; 2557.0; 2094.0; 2478.0; 2077.0; 2646.0; 1926.0; 141.3; 2180.0; 132.7

B-4

B-8

LEGEND

- Fill
- SM - SANDY SILT
- SP - COARSE SAND
- CL - SILTY CLAY
- CH - DENSE FAT CLAY
- SC - SANDY SILT
- ML - CLAY AND SILT
- SW - WELL GRADED SANDS
- SS - SANDSTONE
- GP - POORLY GRADED GRAVELS
- SL - SILTY CLAY
- SH - SHALE

KEY

Feet Below Surface

40

SP

SM

Soil Classification

Hydrocarbon Headspace (ppm)

365.2

2552.0

2595.0

2364.0

CROSS SECTION INDEX

MW-7

B-9

B-3

B-7

B-2

MW-1

B-11

MW-8/B-5

B-1

B-10

B-4

B-8

MW-5

MW-6/B-6

MW-2

MW-3

15 FEET 0

15 FEET

FIGURE 5A

GEOLOGIC CROSS-SECTION A-A'

SAN JUAN 29-7 UNIT 37

RIO ARRIBA COUNTY, NEW MEXICO

ConocoPhillips Company

M:\clients\CRA\COP_San Juan\Wells-Logs-Geo.dwg, Created 11/14/2011, Plotted 11/17/2011

B

B'

B-11 | B-7 | MW-1 | B-2 | B-3 | B-9

Surface

Feet Below Ground Surface

Excavated

SM

SP

CL

CH

SL

ML

SC

SH

SS

Fill

2482.0
1316.0
1405.0
262.0
260.0
2118.0
6190.0
106.4

APPROXIMATE
WATER LEVEL

15 FEET 0

FEET

LEGEND

- Fill
- SM - SANDY SILT
- SP - COARSE SAND
- CL - SILTY CLAY
- CH - DENSE FAT CLAY
- SC - SANDY SILT
- ML - CLAY AND SILT
- SW - WELL GRADED SANDS
- SS - SANDSTONE
- GP - POORLY GRADED GRAVELS
- SL - SILTY CLAY
- SH - SHALE

KEY

Feet Below Surface

Soil Classification

Hydrocarbon Headspace (ppm)

365.2

2552.0

2595.0

2364.0

CROSS SECTION INDEX

MW-7

B-9

B-3

B-7

B-2

MW-1

B

B-11

MW-8/B-5

B-1

A

B-10

B-8

B-4

A'

MW-5

MW-6/B-6

MW-2

MW-3

FIGURE 5B
GEOLOGIC CROSS-SECTION B-B'
SAN JUAN 29-7 UNIT 37
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

M:\clients\CRA\COP_San_Juan\Wells-Logs-Geo.dwg, Created 11/14/2011, Plotted 11/17/2011

FIGURE 6

GROUNDWATER POTENTIOMETRIC MAP AUGUST 2011

CONOCOPHILLIPS COMPANY
SAN JUAN 29-7 UNIT 37
GAS PRODUCTION WELL SITE
Unit Letter N, Sec 12, T29N, R07W
Rio Arriba County, New Mexico

LEGEND

- ConocoPhillips San Juan 29-7 Unit 37 Wellhead
- Boring Location
- Approximate 2010 Excavation Location
- Monitoring Well
- Location of Current San Juan 29-7 Unit 37 Tank Placement (aerial image shows prior tank placement)
- Groundwater Elevation Contour Lines (Dashed where inferred)

N

0 FEET 70

CRA CONESTOGA-ROVERS & ASSOCIATES

FIGURE 7

GROUNDWATER POTENTIOMETRIC MAP OCTOBER 2011

CONOCOPHILLIPS COMPANY
SAN JUAN 29-7 UNIT 37
GAS PRODUCTION WELL SITE
Unit Letter N, Sec 12, T29N, R07W
Rio Arriba County, New Mexico

LEGEND

- ConocoPhillips San Juan 29-7 Unit 37 Wellhead
- Boring Location
- Approximate 2010 Excavation Location
- Monitoring Well
- Location of Current San Juan 29-7 Unit 37 Tank Placement (aerial image shows prior tank placement)
- Groundwater Elevation Contour Lines (Dashed where inferred)

N

0 FEET 70

CONESTOGA-ROVERS & ASSOCIATES

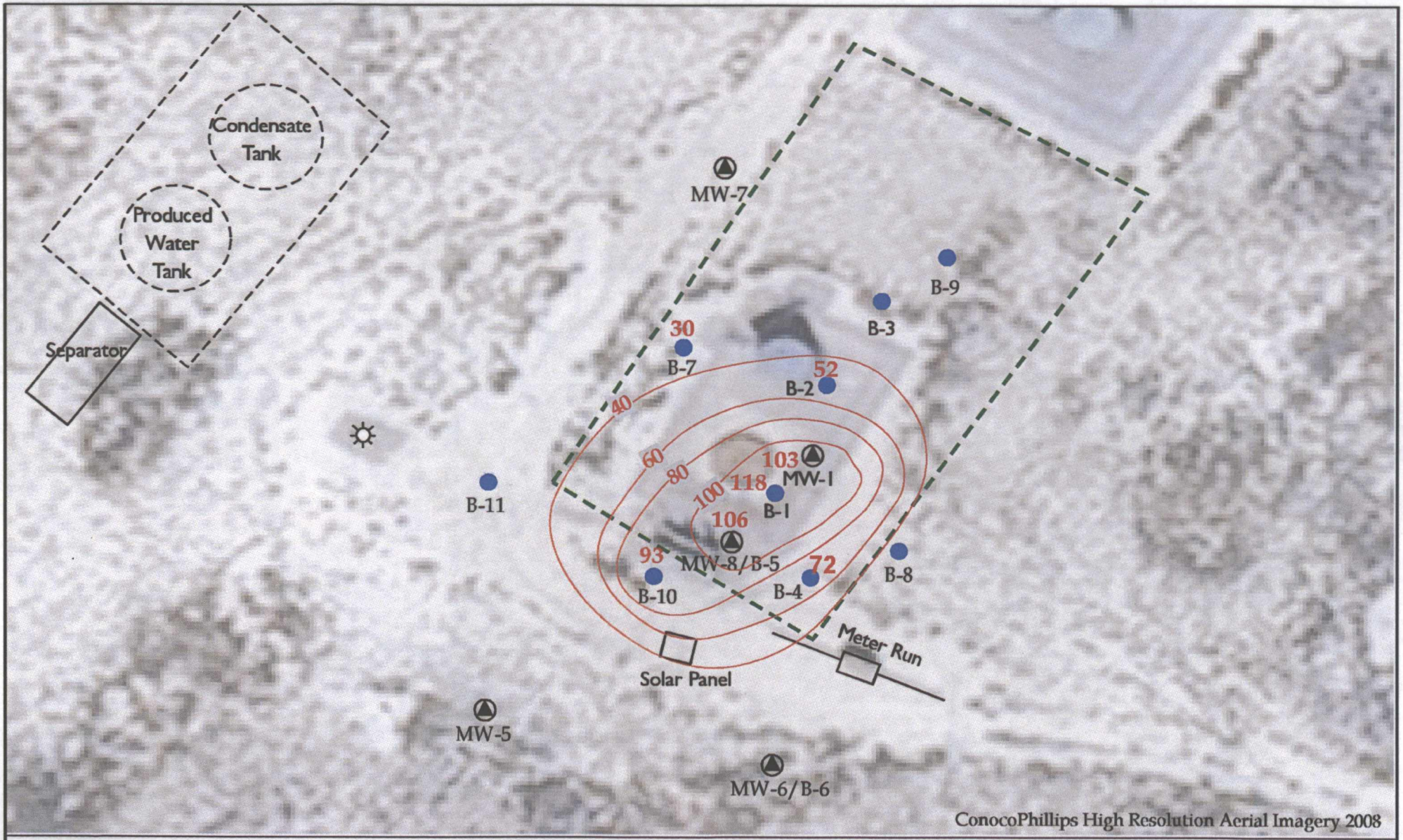


FIGURE 8

SOIL IMPACTS MAP

CONOCOPHILLIPS COMPANY
SAN JUAN 29-7 UNIT 37
GAS PRODUCTION WELL SITE
Unit Letter N, Sec 12, T29N, R07W
Rio Arriba County, New Mexico

LEGEND

- ConocoPhillips San Juan 29-7 Unit 37 Wellhead
- Boring Location
- Monitoring Well
- Approximate 2010 Excavation Location
- Approximate Location of Current San Juan 29-7 Unit 37 Tank Placement (aerial image shows prior tank placement)
- 93 Total Depth of Soil Impacts (feet below ground surface) Based on PhotoionizationDetector Readings over 100 parts per million, If any
- Soil Impact Contour Line

N

0 20 40

FEET

CRA CONESTOGA-ROVERS & ASSOCIATES

TABLES

TABLE 1
Laboratory Soil Analytical Results Summary
ConocoPhillips Company San Juan 29-7 Unit 37

Sample Name	Date	Headspace (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX	TPH DRO (mg/kg)	TPH GRO (mg/kg)	Total TPH (mg/kg)
B-1 (30-32)	1/14/2011	2686	0.25	48	11	374	**433.25**	380	5300	**5680**
B-1 (66-68)	1/14/2011	467	< 0.0064	0.11	0.082	1.88	2.072	11	14	25
B-1 (68-70)	1/14/2011	346	< 0.0058	0.014	< .0058	0.089	0.103	12	0.38	12.38
B-1 (86-88)	1/14/2011	103	< 0.0054	< 0.0054	< .0054	< .0054	--	< 5.0	< 0.1	--
B-1 (88-90)	1/14/2011	485	< 0.0051	< 0.0051	< .0051	0.017	0.017	< 5.0	< 0.1	--
B-1 (92-94)	1/14/2011	722	< 0.0056	0.006	< .0056	0.017	0.023	< 5.0	0.14	0.14
B-1 (122.5-123.5)	1/14/2011	0.5	< 0.005	0.096	0.022	0.347	0.465	< 5.0	0.11	0.11
B-2 (45-47)	3/1/2011	6190	< 0.25	6.6	4.9	111.0	**122.5**	50	630	**680**
B-2 (106-108)	3/1/2011	50.7	< 0.005	0.012	< .005	0.0343	0.0463	< 5.0	0.13	0.13
B-4 (58-60)	9/22/211	2077	< 3.17	53.6	13.0	298.0	**364.60**	1,150	3,860	**5010**
B-4 (106-108)	9/22/2011	7.1	< 0.006	0.0181	<0 .006	0.0364	0.0545	< 10.2	< 14.7	--
B-5 (51-53)	9/22/2011	2546	< 1.810	50.8	5.47	76.8	**133.07**	366	1,200	**1566**
B-5 (103-105)	9/23/2011	210.1	< 0.0054	0.0286	< 0.0054	0.026	0.0546	< 10.2	< 13.4	--
B-6 (107-108)	9/26/2011	6.4	< 0.0054	< 0.0054	< 0.0054	< 0.0107	--	121	< 11.7	**121**
B-7 (20-22)	9/27/2011	2482	< 0.375	< 0.375	< 0.375	10.9	10.9	2,440	286	**2726**
B-8 (108-110)	10/3/2011	0.4	< .0057	< .0057	< .0057	< 0.0057	--	< 10.3	< 16.2	--
B-9 (100-102)	10/13/2011	0.9	< 0.0056	< 0.0056	< 0.0056	< 0.0056	--	< 10.6	< 20.2	--
B-10 (46-48)	10/18/2011	2595	< 5.0	333	62.5	1120	**1515.5**	933	20100	**21033**
B-10 (105-107)*	10/18/2011	27.6	< .0055	0.0552	0.01	0.162	0.2272	< 10.5	17.6	17.6
B-11 (100-102.5)	10/20/2011	0.3	< 0.0064	< 0.0064	< 0.0064	< 0.0064	--	< 0.0102	< 0.0167	--
MW-1 (50-52)	3/3/2011	2118	< 0.25	< 0.25	< 0.25	4.4	4.4	110	68	**178**
MW-1 (114-116)	3/3/2011	106.4	< 0.005	< 0.005	< 0.005	< 0.005	--	< 5.0	0.73	0.73
MW-2 (106-108)	3/2/2011	5.9	< 0.005	< 0.005	< 0.005	< 0.005	--	< 5.0	< 0.1	--
MW-3 (106-108)	3/2/2011	4.4	< 0.005	< 0.005	< 0.005	< 0.005	--	< 5.0	< 0.1	--
MW-4 (102-104)	2/28/2011	30.2	< 0.005	< 0.005	< 0.005	< 0.005	--	91	1.5	92.5
MW-4 (111-113)	2/28/2011	2.2	< 0.005	< 0.005	< 0.005	< 0.005	--	0.1	< 5.0	0.1
MW-5 (107-108.5)	9/24/2011	144.0	< .0054	< 0.0054	< 0.0054	< 0.0108	--	< 10	< 11.6	--
MW-6	9/26/2011	See Results for B-6								
MW-7 (105-107.5)	10/12/2011	8.4	< 0.0059	< 0.0059	< 0.0059	< 0.0059	--	< 11.1	< 20.3	--
MW-8	9/22/2011	See Results for B-5								
NMOCD Action Limits		**100**	**10 mg/kg**	**NE**	**NE**	**NE**	**50 mg/kg**	**NE**	**NE**	**Total TPH = 100 mg/kg**

Notes:
MW = monitoring well
B = Soil Boring
NMOCD = New Mexico Oil Conservation Division
BOLD = Exceeds NMWQCC Action Limits
mg/kg = milligrams per kilogramliter (parts per million)
< 0.005 = below laboratory detection limit
NE = Not Established

TABLE 2
GROUNDWATER ELEVATIONS AND ANALYTICAL SUMMARY
CONOCOPHILLIPS SAN JUAN 29-7 UNIT 37

Well ID	*Measuring Point Elevation (ft)	Date	Depth to Groundwater (ft-TOC)	Groundwater Elevation (ft-TOC)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Manganese (dissolved) (mg/L)	Selenium (dissolved) (mg/L)	Nitrate (as N) (mg/L)	Sulfate (mg/L)	Total dissolved solids (TDS) (mg/L)	Heterotrophic Plate Count (CFU/mL)
MW-1	189.86	3/17/2011	108.91	80.95	0.066	0.39	0.011	0.084	0.28	1.5	2.77	<0.01	<0.500	1610	2730	--
		8/17/2011	108.81	81.05	0.0189	0.0068	<0.001	0.0044	<0.50	<0.50	0.318	<0.015	0.25	1500	2480	180,000
		10/18/2011	108.87	80.99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300,000
MW-2	188.94	3/17/2011	109.20	79.74	<0.001	<0.001	<0.001	<0.001	< 0.11	< 0.1	0.334	0.0664	55.8	1000	2950	NA
		8/17/2011	109.10	79.84	<0.001	<0.001	<0.001	<0.003	<0.50	<0.50	0.179	0.0726	71.9 E / 54.1	1040	2110	61,000
		10/18/2011	109.13	79.81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	124,000
MW-3	188.35	3/17/2011	109.42	78.93	<0.001	0.013	<0.001	0.0042	< 0.1	< 0.1	1.79	0.0316	29.7	857	2360	NA
		8/17/2011	109.35	79.00	<0.001	<0.001	<0.001	<0.003	<0.50	<0.50	1.42	0.0524	33.0	972	1960	18,000
		10/18/2011	109.37	78.98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	230,000
MW-4	198.16	3/17/2011	111.11	87.05	<0.001	<0.001	<0.001	<0.001	0.14	< 0.1	0.0215	0.042	10.4	1290	2650	NA
		8/17/2011	111.10	87.06	<0.001	<0.001	<0.001	<0.003	<0.50	<0.50	0.0062	0.0402	9.4	1240	2000	9800
		10/18/2011	111.16	87.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	90,000
MW-5	--	10/18/2011	118.05**	--	< 0.0010	< 0.0010	< 0.0010	< 0.0030	< 0.5	< 0.5	NA	NA	NA	NA	NA	970,000
MW-6	--	10/18/2011	109.55**	--	0.0333	< 0.0010	< 0.0010	0.0124	< 0.5	< 0.5	NA	NA	NA	NA	NA	720,000
MW-7	--	10/18/2011	119.7**	--	< 0.0010	< 0.0010	< 0.0010	< 0.003	< 0.5	< 0.5	NA	NA	NA	NA	NA	2,000,000
MW-8	--	10/19/2011	--	--	0.15	1.24	0.0702	1.43	< 0.5	7.1	NA	NA	NA	NA	NA	2,300,000
B-1	--	1/14/2011	--	--	0.930	15.0	1.40	18.80	1.4	73	NA	NA	NA	NA	NA	NA
B-4	--	9/22/211	--	--	0.133	0.673	0.035	0.397	0.57	3.2	NA	NA	NA	NA	NA	NA
B-5	--	9/23/2011	--	--	0.297	0.954	0.109	1.450	NA	NA	NA	NA	NA	NA	NA	NA
B-6	--	--	--	--	No Sample Obtained; sediment accumulation in boring											
B-7	--	--	--	--	No Sample Obtained; did not reach groundwater											
B-8	--	10/4/2011	--	--	0.307	0.723	0.0578	0.758	< 0.61	6.8	NA	NA	NA	NA	NA	NA
B-9	--	10/14/2011	--	--	< 0.001	< 0.001	< 0.001	< 0.003	< 1.6	< 0.5	NA	NA	NA	NA	NA	NA
B-10	--	--	--	--	No Sample Obtained, dry boring											
B-11	--	--	--	--	No Sample Obtained, dry boring											
NMWQCC Standards					0.01	0.75	0.75	0.62	NE	NE	0.2	0.05	10	600	1000	NE

Notes:
MW = Monitoring Well
B = Soil Boring
NMWQCC = New Mexico Water Quality Control Commission
BOLD/Red = Exceeds NMWQCC Groundwater Quality Standard
mg/L = milligrams per liter (parts per million)
'< ' = Analyte not detected above set laboratory detection limit
E = Analyte concentration exceeded the calibration range
ft = Feet
TOC = below top of casing
* = Elevation relative to an arbitrary 200 feet
** = Wells not surveyed.
NE = Not Established
NA = Not analyzed
TPH DRO = total petroleum hydrocarbons diesel range organics
TPH GRO = total petroleum hydrocarbons gasoline range organics

APPENDIX A

LABORATORY REPORTS

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

October 04, 2011

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on September 24, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Colleen Koporc for
Dianna Meier
dianna.meier@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa

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

CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60106844001	S-075034-92211-CB-B5(51-53)	Solid	09/22/11 15:52	09/24/11 08:15
60106844002	S-075034-92211-CB-B5(103-105)	Solid	09/22/11 11:27	09/24/11 08:15
60106844003	S-075034-92211-CB-B5	Water	09/22/11 13:30	09/24/11 08:15
60106844004	TRIP BLANK	Solid	09/22/11 14:45	09/24/11 08:15
60106844005	S-075034-92111-CB-B4(58-60)	Solid	09/21/11 13:00	09/24/11 08:15
60106844006	S-075034-92211-CB-B4(106-108)	Solid	09/22/11 10:55	09/24/11 08:15
60106844007	GW-075034-92211-CB-B4	Water	09/22/11 12:00	09/24/11 08:15
60106844008	EB-075034-92211-CB-EB1	Water	09/22/11 14:00	09/24/11 08:15
60106844009	FB-075034-92211-CB-FB1	Water	09/22/11 14:15	09/24/11 08:15
60106844010	TRIP BLANK	Solid	09/22/11 00:00	09/24/11 08:15

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

SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60106844001	S-075034-92211-CB-B5(51-53)	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 5035A/8260	RAB	7
		ASTM D2974-87	DWC	1
60106844002	S-075034-92211-CB-B5(103-105)	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 5035A/8260	RAB	7
		ASTM D2974-87	DWC	1
60106844003	S-075034-92211-CB-B5	EPA 5030B/8260	PRG	9
60106844004	TRIP BLANK	EPA 5035A/8260	RAB	7
		ASTM D2974-87	DWC	1
60106844005	S-075034-92111-CB-B4(58-60)	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 5035A/8260	RAB	7
		ASTM D2974-87	DWC	1
60106844006	S-075034-92211-CB-B4(106-108)	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 5035A/8260	RAB	7
		ASTM D2974-87	DWC	1
60106844007	GW-075034-92211-CB-B4	EPA 8015B	SDR	3
		EPA 5030B/8015B	PRG	3
		EPA 5030B/8260	PRG	9
60106844008	EB-075034-92211-CB-EB1	EPA 5030B/8260	PRG	9
60106844009	FB-075034-92211-CB-FB1	EPA 5030B/8260	PRG	9
60106844010	TRIP BLANK	EPA 5035A/8260	RAB	7

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 04, 2011

General Information:
5 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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 3510C with any exceptions noted below.
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.

Method Blank:
All analytes were below the report limit in the method blank 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: OEXT/30381

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60106844001

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 881918)
  - TPH-DRO
- MSD (Lab ID: 881919)
  - TPH-DRO

R1: RPD value was outside control limits.

- MSD (Lab ID: 881919)
  - TPH-DRO

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Method: EPA 8015B
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 04, 2011

General Information:
4 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

QC Batch: GCV/3856

S2: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

- S-075034-92111-CB-B4(58-60) (Lab ID: 60106844005)
  - 4-Bromofluorobenzene (S)

Method Blank:
All analytes were below the report limit in the method blank 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.

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 04, 2011

General Information:
1 sample was analyzed for EPA 5030B/8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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/3862

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

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Method: **EPA 5035A/8260**
Description: 8260 MSV GRO and Oxygenates
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 04, 2011

General Information:
6 samples were analyzed for EPA 5035A/8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/40377

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

QC Batch: MSV/40488

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

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 04, 2011

General Information:
4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/40470

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

QC Batch: MSV/40511

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

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

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: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Sample: S-075034-92211-CB-B5(51-53) **Lab ID: 60106844001** Collected: 09/22/11 15:52 Received: 09/24/11 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

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	**366**	mg/kg	11.1	1	09/27/11 00:00	09/29/11 17:18		
n-Tetracosane (S)	87	%	41-130	1	09/27/11 00:00	09/29/11 17:18	646-31-1	
p-Terphenyl (S)	83	%	39-130	1	09/27/11 00:00	09/29/11 17:18	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**1200**	mg/kg	145	10	09/28/11 00:00	09/28/11 16:24		
4-Bromofluorobenzene (S)	111	%	68-134	10	09/28/11 00:00	09/28/11 16:24	460-00-4	
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	ND	ug/kg	1810	250		09/29/11 18:23	71-43-2	
Ethylbenzene	**5470**	ug/kg	1810	250		09/29/11 18:23	100-41-4	
Toluene	**50800**	ug/kg	1810	250		09/29/11 18:23	108-88-3	
Xylene (Total)	**76800**	ug/kg	3620	250		09/29/11 18:23	1330-20-7	
Toluene-d8 (S)	112	%	81-121	250		09/29/11 18:23	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-131	250		09/29/11 18:23	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	77-131	250		09/29/11 18:23	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.3**	%	0.50	1		09/29/11 00:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Sample: S-075034-92211-CB-B5(103-105) **Lab ID: 60106844002** Collected: 09/22/11 11:27 Received: 09/24/11 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

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	10.2	1	09/27/11 00:00	09/29/11 17:29		
n-Tetracosane (S)	87	%	41-130	1	09/27/11 00:00	09/29/11 17:29	646-31-1	
p-Terphenyl (S)	81	%	39-130	1	09/27/11 00:00	09/29/11 17:29	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	13.4	1	09/28/11 00:00	09/28/11 16:47		
4-Bromofluorobenzene (S)	92	%	68-134	1	09/28/11 00:00	09/28/11 16:47	460-00-4	
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	ND	ug/kg	5.4	1		09/28/11 17:19	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1		09/28/11 17:19	100-41-4	
Toluene	**28.6**	ug/kg	5.4	1		09/28/11 17:19	108-88-3	
Xylene (Total)	**26.0**	ug/kg	10.8	1		09/28/11 17:19	1330-20-7	
Toluene-d8 (S)	101	%	81-121	1		09/28/11 17:19	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-131	1		09/28/11 17:19	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	77-131	1		09/28/11 17:19	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**5.0**	%	0.50	1		09/29/11 00:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Sample: S-075034-92211-CB-B5 **Lab ID: 60106844003** Collected: 09/22/11 13:30 Received: 09/24/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**297**	ug/L	10.0	10		09/30/11 17:50	71-43-2	
Ethylbenzene	**109**	ug/L	10.0	10		09/30/11 17:50	100-41-4	
Toluene	**954**	ug/L	10.0	10		09/30/11 17:50	108-88-3	
Xylene (Total)	**1450**	ug/L	30.0	10		09/30/11 17:50	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-113	10		09/30/11 17:50	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	10		09/30/11 17:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	82-119	10		09/30/11 17:50	17060-07-0	
Toluene-d8 (S)	102	%	90-110	10		09/30/11 17:50	2037-26-5	
Preservation pH	**1.0**		0.10	10		09/30/11 17:50		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Sample: TRIP BLANK **Lab ID: 60106844004** Collected: 09/22/11 14:45 Received: 09/24/11 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	ND	ug/kg	5.0	1		09/28/11 16:49	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1		09/28/11 16:49	100-41-4	
Toluene	**7.3**	ug/kg	5.0	1		09/28/11 16:49	108-88-3	
Xylene (Total)	ND	ug/kg	10.0	1		09/28/11 16:49	1330-20-7	
Toluene-d8 (S)	99	%	81-121	1		09/28/11 16:49	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-131	1		09/28/11 16:49	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	77-131	1		09/28/11 16:49	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	ND	%	0.50	1		09/29/11 00:00		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Sample: S-075034-92111-CB-B4(58-60) **Lab ID: 60106844005** Collected: 09/21/11 13:00 Received: 09/24/11 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

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	**1150**	mg/kg	20.5	2	09/27/11 00:00	09/30/11 10:49		
n-Tetracosane (S)	78	%	41-130	2	09/27/11 00:00	09/30/11 10:49	646-31-1	
p-Terphenyl (S)	76	%	39-130	2	09/27/11 00:00	09/30/11 10:49	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**3860**	mg/kg	253	20	09/28/11 00:00	09/28/11 17:10		
4-Bromofluorobenzene (S)	168	%	68-134	20	09/28/11 00:00	09/28/11 17:10	460-00-4	S2
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	ND	ug/kg	3170	500		09/28/11 18:04	71-43-2	
Ethylbenzene	**13000**	ug/kg	3170	500		09/28/11 18:04	100-41-4	
Toluene	**53600**	ug/kg	3170	500		09/28/11 18:04	108-88-3	
Xylene (Total)	**298000**	ug/kg	6330	500		09/28/11 18:04	1330-20-7	
Toluene-d8 (S)	116	%	81-121	500		09/28/11 18:04	2037-26-5	
4-Bromofluorobenzene (S)	118	%	75-131	500		09/28/11 18:04	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	77-131	500		09/28/11 18:04	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**2.8**	%	0.50	1		09/29/11 00:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Sample: S-075034-92211-CB-B4(106-108) **Lab ID: 60106844006** Collected: 09/22/11 10:55 Received: 09/24/11 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

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	10.2	1	09/27/11 00:00	09/29/11 17:51		
n-Tetracosane (S)	84	%	41-130	1	09/27/11 00:00	09/29/11 17:51	646-31-1	
p-Terphenyl (S)	81	%	39-130	1	09/27/11 00:00	09/29/11 17:51	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	14.7	1	09/28/11 00:00	09/28/11 17:32		
4-Bromofluorobenzene (S)	96	%	68-134	1	09/28/11 00:00	09/28/11 17:32	460-00-4	
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	ND	ug/kg	6.0	1		09/28/11 17:34	71-43-2	
Ethylbenzene	ND	ug/kg	6.0	1		09/28/11 17:34	100-41-4	
Toluene	**18.1**	ug/kg	6.0	1		09/28/11 17:34	108-88-3	
Xylene (Total)	**36.4**	ug/kg	11.9	1		09/28/11 17:34	1330-20-7	
Toluene-d8 (S)	100	%	81-121	1		09/28/11 17:34	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-131	1		09/28/11 17:34	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	77-131	1		09/28/11 17:34	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**4.2**	%	0.50	1		09/29/11 00:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Sample: GW-075034-92211-CB-B4 **Lab ID: 60106844007** Collected: 09/22/11 12:00 Received: 09/24/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C							
TPH-DRO	**0.57**	mg/L	0.50	1	09/28/11 00:00	09/29/11 16:00		
p-Terphenyl (S)	78	%	40-118	1	09/28/11 00:00	09/29/11 16:00	92-94-4	
n-Tetracosane (S)	79	%	36-120	1	09/28/11 00:00	09/29/11 16:00	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
TPH-GRO	**3.2**	mg/L	0.50	1		10/03/11 12:46		
4-Bromofluorobenzene (S)	99	%	63-139	1		10/03/11 12:46	460-00-4	
Preservation pH	**1.0**			1		10/03/11 12:46		
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**133**	ug/L	1.0	1		09/29/11 13:23	71-43-2	
Ethylbenzene	**35.0**	ug/L	1.0	1		09/29/11 13:23	100-41-4	
Toluene	**673**	ug/L	5.0	5		09/30/11 18:04	108-88-3	
Xylene (Total)	**397**	ug/L	3.0	1		09/29/11 13:23	1330-20-7	
4-Bromofluorobenzene (S)	102	%	87-113	1		09/29/11 13:23	460-00-4	
Dibromofluoromethane (S)	99	%	86-112	1		09/29/11 13:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	82-119	1		09/29/11 13:23	17060-07-0	
Toluene-d8 (S)	108	%	90-110	1		09/29/11 13:23	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/29/11 13:23		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Sample: EB-075034-92211-CB-EB1 **Lab ID: 60106844008** Collected: 09/22/11 14:00 Received: 09/24/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		09/29/11 13:38	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/29/11 13:38	100-41-4	
Toluene	ND	ug/L	1.0	1		09/30/11 18:19	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/29/11 13:38	1330-20-7	
4-Bromofluorobenzene (S)	102	%	87-113	1		09/29/11 13:38	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		09/29/11 13:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	82-119	1		09/29/11 13:38	17060-07-0	
Toluene-d8 (S)	95	%	90-110	1		09/29/11 13:38	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/29/11 13:38		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Sample: FB-075034-92211-CB-FB1 **Lab ID: 60106844009** Collected: 09/22/11 14:15 Received: 09/24/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		09/29/11 13:52	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/29/11 13:52	100-41-4	
Toluene	ND	ug/L	1.0	1		09/29/11 13:52	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/29/11 13:52	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-113	1		09/29/11 13:52	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		09/29/11 13:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	82-119	1		09/29/11 13:52	17060-07-0	
Toluene-d8 (S)	95	%	90-110	1		09/29/11 13:52	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/29/11 13:52		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Sample: TRIP BLANK **Lab ID: 60106844010** Collected: 09/22/11 00:00 Received: 09/24/11 08:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	ND	ug/kg	5.0	1		09/28/11 17:04	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1		09/28/11 17:04	100-41-4	
Toluene	ND	ug/kg	5.0	1		09/28/11 17:04	108-88-3	
Xylene (Total)	ND	ug/kg	10.0	1		09/28/11 17:04	1330-20-7	
Toluene-d8 (S)	101	%	81-121	1		09/28/11 17:04	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-131	1		09/28/11 17:04	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	77-131	1		09/28/11 17:04	17060-07-0	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

QC Batch: OEXT/30381 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60106844001, 60106844002, 60106844005, 60106844006

METHOD BLANK: 881916 Matrix: Solid
Associated Lab Samples: 60106844001, 60106844002, 60106844005, 60106844006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	10	09/29/11 16:33	
n-Tetracosane (S)	%	84	41-130	09/29/11 16:33	
p-Terphenyl (S)	%	84	39-130	09/29/11 16:33	

LABORATORY CONTROL SAMPLE: 881917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	80.7	75.5	93	57-120	
n-Tetracosane (S)	%			85	41-130	
p-Terphenyl (S)	%			85	39-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 881918 881919

Parameter	Units	60106844001 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	366	91.2	91.7	966	581	658	234	36-125	50	28	M3,R1
n-Tetracosane (S)	%						80	84	41-130			
p-Terphenyl (S)	%						74	80	39-130			

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

QC Batch: OEXT/30409
QC Batch Method: EPA 3510C
Associated Lab Samples: 60106844007

Analysis Method: EPA 8015B
Analysis Description: EPA 8015B

METHOD BLANK: 882684 Matrix: Water
Associated Lab Samples: 60106844007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	09/29/11 15:37	
n-Tetracosane (S)	%	60	36-120	09/29/11 15:37	
p-Terphenyl (S)	%	75	40-118	09/29/11 15:37	

LABORATORY CONTROL SAMPLE: 882685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	2.0	80	48-119	
n-Tetracosane (S)	%			63	36-120	
p-Terphenyl (S)	%			71	40-118	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

QC Batch: GCV/3856 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60106844001, 60106844002, 60106844005, 60106844006

METHOD BLANK: 881984 Matrix: Solid
Associated Lab Samples: 60106844001, 60106844002, 60106844005, 60106844006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	09/28/11 11:52	
4-Bromofluorobenzene (S)	%	96	68-134	09/28/11 11:52	

LABORATORY CONTROL SAMPLE: 881985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	57.6	115	77-122	
4-Bromofluorobenzene (S)	%			95	68-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 881986 881987

Parameter	Units	60106527001 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	6330	2370	2370	8440	8270	89	82	51-130	2	27	
4-Bromofluorobenzene (S)	%						97	103	68-134			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

QC Batch: GCV/3862
QC Batch Method: EPA 5030B/8015B
Associated Lab Samples: 60106844007

Analysis Method: EPA 5030B/8015B
Analysis Description: Gasoline Range Organics

METHOD BLANK: 884155 Matrix: Water

Associated Lab Samples: 60106844007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/L	ND	0.50	10/03/11 12:23	
4-Bromofluorobenzene (S)	%	94	63-139	10/03/11 12:23	

LABORATORY CONTROL SAMPLE: 884156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/L	1	0.91	91	74-127	
4-Bromofluorobenzene (S)	%			98	63-139	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

QC Batch: MSV/40377 Analysis Method: EPA 5035A/8260
QC Batch Method: EPA 5035A/8260 Analysis Description: 8260 MSV GRO and Oxygenates
Associated Lab Samples: 60106844002, 60106844004, 60106844005, 60106844006, 60106844010

METHOD BLANK: 881559 Matrix: Solid
Associated Lab Samples: 60106844002, 60106844004, 60106844005, 60106844006, 60106844010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	09/28/11 14:48	
Ethylbenzene	ug/kg	ND	5.0	09/28/11 14:48	
Toluene	ug/kg	ND	5.0	09/28/11 14:48	
Xylene (Total)	ug/kg	ND	10.0	09/28/11 14:48	
1,2-Dichloroethane-d4 (S)	%	99	77-131	09/28/11 14:48	
4-Bromofluorobenzene (S)	%	96	75-131	09/28/11 14:48	
Toluene-d8 (S)	%	101	81-121	09/28/11 14:48	

LABORATORY CONTROL SAMPLE: 881560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	87.3	87	84-119	
Ethylbenzene	ug/kg	100	90.4	90	80-120	
Toluene	ug/kg	100	91.2	91	83-117	
Xylene (Total)	ug/kg	300	272	91	80-120	
1,2-Dichloroethane-d4 (S)	%			98	77-131	
4-Bromofluorobenzene (S)	%			106	75-131	
Toluene-d8 (S)	%			100	81-121	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

QC Batch: MSV/40488
QC Batch Method: EPA 5035A/8260
Associated Lab Samples: 60106844001

Analysis Method: EPA 5035A/8260
Analysis Description: 8260 MSV GRO and Oxygenates

METHOD BLANK: 883614 Matrix: Solid
Associated Lab Samples: 60106844001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	09/29/11 16:23	
Ethylbenzene	ug/kg	ND	5.0	09/29/11 16:23	
Toluene	ug/kg	ND	5.0	09/29/11 16:23	
Xylene (Total)	ug/kg	ND	10.0	09/29/11 16:23	
1,2-Dichloroethane-d4 (S)	%	103	77-131	09/29/11 16:23	
4-Bromofluorobenzene (S)	%	97	75-131	09/29/11 16:23	
Toluene-d8 (S)	%	101	81-121	09/29/11 16:23	

LABORATORY CONTROL SAMPLE: 883615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	88.8	89	84-119	
Ethylbenzene	ug/kg	100	94.2	94	80-120	
Toluene	ug/kg	100	90.5	91	83-117	
Xylene (Total)	ug/kg	300	289	96	80-120	
1,2-Dichloroethane-d4 (S)	%			100	77-131	
4-Bromofluorobenzene (S)	%			106	75-131	
Toluene-d8 (S)	%			100	81-121	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

QC Batch: MSV/40470 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60106844007, 60106844008, 60106844009

METHOD BLANK: 883418 Matrix: Water
Associated Lab Samples: 60106844007, 60106844008, 60106844009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	09/29/11 09:48	
Ethylbenzene	ug/L	ND	1.0	09/29/11 09:48	
Toluene	ug/L	ND	1.0	09/29/11 09:48	
Xylene (Total)	ug/L	ND	3.0	09/29/11 09:48	
1,2-Dichloroethane-d4 (S)	%	100	82-119	09/29/11 09:48	
4-Bromofluorobenzene (S)	%	100	87-113	09/29/11 09:48	
Dibromofluoromethane (S)	%	100	86-112	09/29/11 09:48	
Toluene-d8 (S)	%	96	90-110	09/29/11 09:48	

LABORATORY CONTROL SAMPLE: 883419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	22.2	111	82-117	
Ethylbenzene	ug/L	20	21.1	105	79-121	
Toluene	ug/L	20	20.6	103	80-120	
Xylene (Total)	ug/L	60	61.8	103	75-120	
1,2-Dichloroethane-d4 (S)	%			100	82-119	
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			102	86-112	
Toluene-d8 (S)	%			96	90-110	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

QC Batch: MSV/40511 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60106844003, 60106844007, 60106844008

METHOD BLANK: 884175 Matrix: Water
Associated Lab Samples: 60106844003, 60106844007, 60106844008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	09/30/11 17:36	
Ethylbenzene	ug/L	ND	1.0	09/30/11 17:36	
Toluene	ug/L	ND	1.0	09/30/11 17:36	
Xylene (Total)	ug/L	ND	3.0	09/30/11 17:36	
1,2-Dichloroethane-d4 (S)	%	102	82-119	09/30/11 17:36	
4-Bromofluorobenzene (S)	%	101	87-113	09/30/11 17:36	
Dibromofluoromethane (S)	%	98	86-112	09/30/11 17:36	
Toluene-d8 (S)	%	98	90-110	09/30/11 17:36	

LABORATORY CONTROL SAMPLE: 884176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.0	105	82-117	
Ethylbenzene	ug/L	20	21.8	109	79-121	
Toluene	ug/L	20	21.0	105	80-120	
Xylene (Total)	ug/L	60	64.0	107	75-120	
1,2-Dichloroethane-d4 (S)	%			101	82-119	
4-Bromofluorobenzene (S)	%			99	87-113	
Dibromofluoromethane (S)	%			100	86-112	
Toluene-d8 (S)	%			99	90-110	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

QC Batch: PMST/6553 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60106844001, 60106844002, 60106844004, 60106844005, 60106844006

METHOD BLANK: 883156 Matrix: Solid
Associated Lab Samples: 60106844001, 60106844002, 60106844004, 60106844005, 60106844006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	09/29/11 00:00	

SAMPLE DUPLICATE: 883157

Parameter	Units	60106980002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.0	18.2	4	20	

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

BATCH QUALIFIERS

Batch: MSV/40377

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

Batch: MSV/40470

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

Batch: MSV/40488

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

Batch: GCV/3862

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

Batch: MSV/40511

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

ANALYTE QUALIFIERS

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

R1 RPD value was outside control limits.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60106844

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60106844001	S-075034-92211-CB-B5(51-53)	EPA 3546	OEXT/30381	EPA 8015B	GCSV/11252
60106844002	S-075034-92211-CB-B5(103-105)	EPA 3546	OEXT/30381	EPA 8015B	GCSV/11252
60106844005	S-075034-92111-CB-B4(58-60)	EPA 3546	OEXT/30381	EPA 8015B	GCSV/11252
60106844006	S-075034-92211-CB-B4(106-108)	EPA 3546	OEXT/30381	EPA 8015B	GCSV/11252
60106844007	GW-075034-92211-CB-B4	EPA 3510C	OEXT/30409	EPA 8015B	GCSV/11251
60106844001	S-075034-92211-CB-B5(51-53)	EPA 5035A/5030B	GCV/3856	EPA 8015B	GCV/3858
60106844002	S-075034-92211-CB-B5(103-105)	EPA 5035A/5030B	GCV/3856	EPA 8015B	GCV/3858
60106844005	S-075034-92111-CB-B4(58-60)	EPA 5035A/5030B	GCV/3856	EPA 8015B	GCV/3858
60106844006	S-075034-92211-CB-B4(106-108)	EPA 5035A/5030B	GCV/3856	EPA 8015B	GCV/3858
60106844007	GW-075034-92211-CB-B4	EPA 5030B/8015B	GCV/3862		
60106844001	S-075034-92211-CB-B5(51-53)	EPA 5035A/8260	MSV/40488		
60106844002	S-075034-92211-CB-B5(103-105)	EPA 5035A/8260	MSV/40377		
60106844004	TRIP BLANK	EPA 5035A/8260	MSV/40377		
60106844005	S-075034-92111-CB-B4(58-60)	EPA 5035A/8260	MSV/40377		
60106844006	S-075034-92211-CB-B4(106-108)	EPA 5035A/8260	MSV/40377		
60106844010	TRIP BLANK	EPA 5035A/8260	MSV/40377		
60106844003	S-075034-92211-CB-B5	EPA 5030B/8260	MSV/40511		
60106844007	GW-075034-92211-CB-B4	EPA 5030B/8260	MSV/40470		
60106844007	GW-075034-92211-CB-B4	EPA 5030B/8260	MSV/40511		
60106844008	EB-075034-92211-CB-EB1	EPA 5030B/8260	MSV/40470		
60106844008	EB-075034-92211-CB-EB1	EPA 5030B/8260	MSV/40511		
60106844009	FB-075034-92211-CB-FB1	EPA 5030B/8260	MSV/40470		
60106844001	S-075034-92211-CB-B5(51-53)	ASTM D2974-87	PMST/6553		
60106844002	S-075034-92211-CB-B5(103-105)	ASTM D2974-87	PMST/6553		
60106844004	TRIP BLANK	ASTM D2974-87	PMST/6553		
60106844005	S-075034-92111-CB-B4(58-60)	ASTM D2974-87	PMST/6553		
60106844006	S-075034-92211-CB-B4(106-108)	ASTM D2974-87	PMST/6553		

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: 1 of 1

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	~~cmathews@craworld.com~~
Phone:	(505)884-0672 Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	~~Christine Mathews~~ Cassie Brown
Copy To:	Kelly Blanchard, Angela Bown
	Cmbrown@craworld.com
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number	

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Koporc
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: NM

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	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	8260 BTEX	8015 DRO	8015 GRO	HPC / notes	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 6006844
1	S-075034.92211.CB-BS(51-53)	SL	G	~~9.22.11~~	~~1552~~ CMB	9.22.11	1552		3	X						X			X	X	X	2 WGFU, 1 WG2U, 2 VG9U, 2069B, 1069m		001
2	S-075034.92311.CB-BS(103-105)	SL	G	—	—	9.23.11	1127		3	X						X			X	X	X	↓	↓	002
3	GW-075034.92311.CB.BS	WT	G	—	—	9.23.11	1330		2				X						X			2 DG9H		003
4	trip blank	WT	G	—	—	9.23.11	1445		1				X						X			1 VG9U (TB)		004
5	Temp Blank	WT	—	—	—	9.23.11	1445		1															
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Return HPC directly to Frontenac Lab:	Cassie Brown	9.23.11	1600	E Brockett	9/24	0815	0.9	Y	Y	Y
808 West Mckay										
Frontenac, KS 66763										
S-075034.92211.CB-BS(51-53) effervesed when mixing soil in terracore							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: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown DATE Signed (MM/DD/YY): 9.23.11

*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: | of |

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	~~cmathews@craworld.com~~ CMbrown@Craworld.com
Phone: (505)884-0672	Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	~~Christine Mathews~~ Cassie Brown
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Koporc
Pace Profile #:	

REGULATORY AGENCY

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

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX	8015 DRO	8015 GRO	HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	S-075034-92111-CB-B4(58-60)	SL	G			9.21.11	1300		3	X						X			X	X	X	2		10068844
2	S-075034-92211-CB-B4(60-68)	SL	G			9.22.11	1055		3	X						X			X	X	X			005
3	GW-075034-92211-CR-B4	WT	G			9.22.11	1200		8	X			X						X	X	X	2		006
4	EB-075034-92211-CB-EB1	WT	G			9.22.11	1400		3				X						X			3		007
5	EB-075034-92211-CB-FB1	WT	G			9.22.11	1415		2				X						X			2		009
6	Trip Blank	WT				9.22.11	1680		1				X						X			1		010
7	Temp Blank	WT	G			9.22.11	1680		1															
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Return HPC directly to Frontenac Lab:	Cassie Brown CRA	9.22.11	1730	E Brackett	9/24	0815	3.4	4	4	4
808 West Mckay										
Frontenac, KS 66763										

Samples S-075034-92111-CB-B4(58-60) preserved when mixed in ferrocore

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown DATE Signed (MM/DD/YY): 9.22.11

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

*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

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA Project # 60106844

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 876803375655 5666 Pace Shipping Label Used? ☑ Yes ☐ No

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Foam ☐ None ☐ Other _____

Thermometer Used: T-191 / T-194 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 0.9, 3.4

Temperature should be above freezing to 6°C

Optional
Proj. Due Date: 10/6/11
Proj. Name:

Date and Initials of person examining contents: 9/24/11 KR

Comments:

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
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. Kits
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9.
-Pace containers used:	☑Yes ☐No ☐N/A	
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.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: SL / WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☑Yes ☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased): 080811-3 (SL)		
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: _____

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Emailed to check on TAT. CBK 9/26/11.

Project Manager Review: CBK for DFM 9/26/11 Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.05, 19February2010

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

October 03, 2011

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Colleen Koporc for
Dianna Meier
dianna.meier@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa

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

CERTIFICATIONS

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60107038001	S-075034-92611-CB-B-6(107-108)	Solid	09/26/11 15:15	09/28/11 09:00
60107038002	TRIP BLANK	Solid	09/27/11 06:00	09/28/11 09:00

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

SAMPLE ANALYTE COUNT

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60107038001	**S-075034-92611-CB-B-6(107-108)**	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 5035A/8260	RAB	7
		ASTM D2974-87	DWC	1
60107038002	**TRIP BLANK**	EPA 5035A/8260	RAB	7

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

PROJECT NARRATIVE

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 03, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

Method Blank:
All analytes were below the report limit in the method blank 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.

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

Additional Comments:

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

PROJECT NARRATIVE

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

Method: **EPA 8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 03, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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 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/3864

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

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

Additional Comments:

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

PROJECT NARRATIVE

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

Method: **EPA 5035A/8260**
Description: 8260 MSV GRO and Oxygenates
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 03, 2011

General Information:
2 samples were analyzed for EPA 5035A/8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/40488

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

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

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: San Juan 29-7 Unit 37
Pace Project No.: 60107038

Sample: S-075034-92611-CB-B-6(107-108) **Lab ID: 60107038001** Collected: 09/26/11 15:15 Received: 09/28/11 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

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	**121**	mg/kg	11.4	1	09/29/11 00:00	09/30/11 11:56		
n-Tetracosane (S)	93	%	41-130	1	09/29/11 00:00	09/30/11 11:56	646-31-1	
p-Terphenyl (S)	71	%	39-130	1	09/29/11 00:00	09/30/11 11:56	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.7	1	09/30/11 00:00	09/30/11 11:59		
4-Bromofluorobenzene (S)	91	%	68-134	1	09/30/11 00:00	09/30/11 11:59	460-00-4	
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	ND	ug/kg	5.4	1		09/29/11 17:53	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1		09/29/11 17:53	100-41-4	
Toluene	ND	ug/kg	5.4	1		09/29/11 17:53	108-88-3	
Xylene (Total)	ND	ug/kg	10.7	1		09/29/11 17:53	1330-20-7	
Toluene-d8 (S)	102	%	81-121	1		09/29/11 17:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-131	1		09/29/11 17:53	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	77-131	1		09/29/11 17:53	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.8**	%	0.50	1		09/30/11 00:00		

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

ANALYTICAL RESULTS

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

Sample: TRIP BLANK **Lab ID: 60107038002** Collected: 09/27/11 06:00 Received: 09/28/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	ND	ug/kg	5.0	1		09/29/11 17:23	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1		09/29/11 17:23	100-41-4	
Toluene	ND	ug/kg	5.0	1		09/29/11 17:23	108-88-3	
Xylene (Total)	ND	ug/kg	10.0	1		09/29/11 17:23	1330-20-7	
Toluene-d8 (S)	101	%	81-121	1		09/29/11 17:23	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-131	1		09/29/11 17:23	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	77-131	1		09/29/11 17:23	17060-07-0	

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

QUALITY CONTROL DATA

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

QC Batch: OEXT/30429 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60107038001

METHOD BLANK: 883587 Matrix: Solid
Associated Lab Samples: 60107038001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.9	09/30/11 11:00	
n-Tetracosane (S)	%	74	41-130	09/30/11 11:00	
p-Terphenyl (S)	%	69	39-130	09/30/11 11:00	

LABORATORY CONTROL SAMPLE: 883588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	81.3	74.4	92	57-120	
n-Tetracosane (S)	%			84	41-130	
p-Terphenyl (S)	%			77	39-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 883589 883590

Parameter	Units	60107029001 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	84.5	84.6	78.3	72.2	88	81	36-125	8	28	
n-Tetracosane (S)	%						83	73	41-130			
p-Terphenyl (S)	%						75	68	39-130			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

QC Batch: GCV/3860 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60107038001

METHOD BLANK: 884012 Matrix: Solid
Associated Lab Samples: 60107038001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	09/30/11 11:14	
4-Bromofluorobenzene (S)	%	84	68-134	09/30/11 11:14	

LABORATORY CONTROL SAMPLE: 884013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	46.5	93	77-122	
4-Bromofluorobenzene (S)	%			87	68-134	

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

QUALITY CONTROL DATA

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

QC Batch: MSV/40488 Analysis Method: EPA 5035A/8260
QC Batch Method: EPA 5035A/8260 Analysis Description: 8260 MSV GRO and Oxygenates
Associated Lab Samples: 60107038001, 60107038002

METHOD BLANK: 883614 Matrix: Solid
Associated Lab Samples: 60107038001, 60107038002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	09/29/11 16:23	
Ethylbenzene	ug/kg	ND	5.0	09/29/11 16:23	
Toluene	ug/kg	ND	5.0	09/29/11 16:23	
Xylene (Total)	ug/kg	ND	10.0	09/29/11 16:23	
1,2-Dichloroethane-d4 (S)	%	103	77-131	09/29/11 16:23	
4-Bromofluorobenzene (S)	%	97	75-131	09/29/11 16:23	
Toluene-d8 (S)	%	101	81-121	09/29/11 16:23	

LABORATORY CONTROL SAMPLE: 883615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	88.8	89	84-119	
Ethylbenzene	ug/kg	100	94.2	94	80-120	
Toluene	ug/kg	100	90.5	91	83-117	
Xylene (Total)	ug/kg	300	289	96	80-120	
1,2-Dichloroethane-d4 (S)	%			100	77-131	
4-Bromofluorobenzene (S)	%			106	75-131	
Toluene-d8 (S)	%			100	81-121	

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

QUALITY CONTROL DATA

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

QC Batch: PMST/6556
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60107038001

METHOD BLANK: 884000
Matrix: Solid
Associated Lab Samples: 60107038001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	09/30/11 00:00	

SAMPLE DUPLICATE: 884001

Parameter	Units	60107029001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.1	1.8	16	20	

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

BATCH QUALIFIERS

Batch: MSV/40488

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

Batch: GCV/3864

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: San Juan 29-7 Unit 37
Pace Project No.: 60107038

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60107038001	**S-075034-92611-CB-B-6(107-108)**	EPA 3546	OEXT/30429	EPA 8015B	GCSV/11256
60107038001	**S-075034-92611-CB-B-6(107-108)**	EPA 5035A/5030B	GCV/3860	EPA 8015B	GCV/3864
60107038001	**S-075034-92611-CB-B-6(107-108)**	EPA 5035A/8260	MSV/40488		
60107038002	**TRIP BLANK**	EPA 5035A/8260	MSV/40488		
60107038001	**S-075034-92611-CB-B-6(107-108)**	ASTM D2974-87	PMST/6556		

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: 1 of 1

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	~~cmathews@craworld.com~~
Phone:	(505)884-0672
Fax:	(505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	~~Christine Mathews~~ Cassie Brown
Copy To:	Kelly Blanchard, Angela Bown
	cmbrown@craworld.com
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	075034

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Koporc
Pace Profile #:	

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [ ] UST
- [ ] RCRA
- [x] OTHER NMOCD

Site Location STATE: NM

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	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	8260 BTEX	8015 DRO	8015 GRO	HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	S-075034-92611-CB-B-6(10'-12')	[illegible]	G	—	—	9.26.11	1515		3	X 1DG9M						X 2DG9B			X	X	X	2VG9 4G4Z 1G FU 1U 1G2U		001
2	Trip blank					9.27.11	0000		1													1VG9U		002
3	temp blank					9.27.11	0000		1															
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Pace Project No. 60107038

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)
Return HPC directly to Frontenac Lab: 808 West Mckay Frontenac, KS 66763	Cassie Brown / CRA	9.27.11	0830	[illegible signature]	9-28-11	0900	3.9	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown

DATE Signed (MM/DD/YY): 9.27.11

*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

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA Project # 60107038

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ____

Tracking #: 876803375684 Pace Shipping Label Used? ☐ Yes ☑ No

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

Optional
Proj. Due Date: 10/10
Proj. Name: San Juan 2007

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ____

Thermometer Used: T-191 T-194 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 3.9

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 09-28-11

		Comments:
Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
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. Kits
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9.
-Pace containers used:	☑Yes ☐No ☐N/A	
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.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: SC		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed ____ Lot # of added preservative ____
Trip Blank present:	☑Yes ☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased): 080811-3		
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: ____

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

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: ____

Project Manager Review: CBK & DKM 9/29/11 Date: ____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®
www.pacelabs.com

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

October 11, 2011

Angela Bown
COP Conestoga-Rovers & Associa
6121 Indian School Rd
#200
Albuquerque, NM 87110

RE: Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

Dear Angela Bown:
Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Colleen Koporc for
Dianna Meier
dianna.meier@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa

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

CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60107128001	S-075034-92711-CB-B-7(20-22)	Solid	09/27/11 12:50	09/29/11 09:00
60107128002	TRIP BLANK	Solid	09/28/11 06:30	09/29/11 09:00

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

SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60107128001	**S-075034-92711-CB-B-7(20-22)**	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 8260	RAB	8
		ASTM D2974-87	DWC	1
60107128002	**TRIP BLANK**	EPA 8260	RAB	8
		ASTM D2974-87	DWC	1

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 11, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

Method Blank:
All analytes were below the report limit in the method blank 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.

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

Method: **EPA 8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 11, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

QC Batch: GCV/3868

S2: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

- S-075034-92711-CB-B-7(20-22) (Lab ID: 60107128001)
  - 4-Bromofluorobenzene (S)

Method Blank:
All analytes were below the report limit in the method blank 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.

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 11, 2011

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/40528

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

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

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: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

Sample: S-075034-92711-CB-B-7(20-22) **Lab ID: 60107128001** Collected: 09/27/11 12:50 Received: 09/29/11 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO	**2440**	mg/kg	56.4	10.7	5	10/03/11 00:00	10/09/11 23:15		
n-Tetracosane (S)	85	%	41-130		5	10/03/11 00:00	10/09/11 23:15	646-31-1	
p-Terphenyl (S)	85	%	39-130		5	10/03/11 00:00	10/09/11 23:15	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	**286**	mg/kg	23.0	8.3	2	10/06/11 00:00	10/07/11 00:42		
4-Bromofluorobenzene (S)	240	%	68-134		2	10/06/11 00:00	10/07/11 00:42	460-00-4	S2
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	375	28.5	50		09/30/11 19:12	71-43-2	
Ethylbenzene	ND	ug/kg	375	34.5	50		09/30/11 19:12	100-41-4	
Toluene	ND	ug/kg	375	28.5	50		09/30/11 19:12	108-88-3	
Xylene (Total)	**10900**	ug/kg	375	87.6	50		09/30/11 19:12	1330-20-7	
Dibromofluoromethane (S)	95	%	68-129		50		09/30/11 19:12	1868-53-7	
Toluene-d8 (S)	104	%	81-121		50		09/30/11 19:12	2037-26-5	
4-Bromofluorobenzene (S)	127	%	75-131		50		09/30/11 19:12	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	77-131		50		09/30/11 19:12	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.6**	%	0.50	0.50	1		10/03/11 00:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

Sample: TRIP BLANK **Lab ID: 60107128002** Collected: 09/28/11 06:30 Received: 09/29/11 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.0	0.38	1		09/30/11 17:27	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	0.46	1		09/30/11 17:27	100-41-4	
Toluene	ND	ug/kg	5.0	0.38	1		09/30/11 17:27	108-88-3	
Xylene (Total)	ND	ug/kg	5.0	1.2	1		09/30/11 17:27	1330-20-7	
Dibromofluoromethane (S)	98	%	68-129		1		09/30/11 17:27	1868-53-7	
Toluene-d8 (S)	101	%	81-121		1		09/30/11 17:27	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-131		1		09/30/11 17:27	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	77-131		1		09/30/11 17:27	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	ND	%	0.50	0.50	1		10/03/11 00:00		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

QC Batch: OEXT/30483 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60107128001

METHOD BLANK: 885357 Matrix: Solid
Associated Lab Samples: 60107128001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.9	10/09/11 22:53	
n-Tetracosane (S)	%	95	41-130	10/09/11 22:53	
p-Terphenyl (S)	%	94	39-130	10/09/11 22:53	

LABORATORY CONTROL SAMPLE: 885358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	82.5	80.9	98	57-120	M4
n-Tetracosane (S)	%			99	41-130	
p-Terphenyl (S)	%			97	39-130	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

QC Batch: GCV/3868
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8015B
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60107128001

METHOD BLANK: 886597 Matrix: Solid
Associated Lab Samples: 60107128001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/06/11 20:09	
4-Bromofluorobenzene (S)	%	98	68-134	10/06/11 20:09	

LABORATORY CONTROL SAMPLE: 886598

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	53.3	107	77-122	
4-Bromofluorobenzene (S)	%			98	68-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 887740 887741

Parameter	Units	60107280002 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	57.8	57.8	55.4	58.5	96	101	51-130	5	27	
4-Bromofluorobenzene (S)	%						96	98	68-134			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

QC Batch: MSV/40528 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60107128001, 60107128002

METHOD BLANK: 884310 Matrix: Solid
Associated Lab Samples: 60107128001, 60107128002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	09/30/11 17:12	
Ethylbenzene	ug/kg	ND	5.0	09/30/11 17:12	
Toluene	ug/kg	ND	5.0	09/30/11 17:12	
Xylene (Total)	ug/kg	ND	5.0	09/30/11 17:12	
1,2-Dichloroethane-d4 (S)	%	111	77-131	09/30/11 17:12	
4-Bromofluorobenzene (S)	%	100	75-131	09/30/11 17:12	
Dibromofluoromethane (S)	%	99	68-129	09/30/11 17:12	
Toluene-d8 (S)	%	100	81-121	09/30/11 17:12	

LABORATORY CONTROL SAMPLE: 884311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	96.7	97	84-119	
Ethylbenzene	ug/kg	100	99.0	99	80-120	
Toluene	ug/kg	100	94.9	95	83-117	
Xylene (Total)	ug/kg	300	294	98	80-120	
1,2-Dichloroethane-d4 (S)	%			104	77-131	
4-Bromofluorobenzene (S)	%			104	75-131	
Dibromofluoromethane (S)	%			96	68-129	
Toluene-d8 (S)	%			97	81-121	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

QC Batch: PMST/6562
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60107128001, 60107128002

METHOD BLANK: 885180
Matrix: Solid
Associated Lab Samples: 60107128001, 60107128002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/03/11 00:00	

SAMPLE DUPLICATE: 885181

Parameter	Units	60107280008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.0	22.0	0	20	

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

BATCH QUALIFIERS

Batch: MSV/40528

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

ANALYTE QUALIFIERS

M4 A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107128

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60107128001	**S-075034-92711-CB-B-7(20-22)**	EPA 3546	OEXT/30483	EPA 8015B	GCSV/11304
60107128001	**S-075034-92711-CB-B-7(20-22)**	EPA 5035A/5030B	GCV/3868	EPA 8015B	GCV/3870
60107128001	**S-075034-92711-CB-B-7(20-22)**	EPA 8260	MSV/40528		
60107128002	**TRIP BLANK**	EPA 8260	MSV/40528		
60107128001	**S-075034-92711-CB-B-7(20-22)**	ASTM D2974-87	PMST/6562		
60107128002	**TRIP BLANK**	ASTM D2974-87	PMST/6562		

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: 1 of 1

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200, Albequerque, NM 87110
Email To:	~~cmathews@craworld.com~~ cmbrown@craworld.com
Phone:	(505)884-0672
Fax:	(505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	~~Christine Mathews~~ Cassie Brown
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	076034

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Koporc
Pace Profile #:	

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [ ] UST
- [ ] RCRA
- [x] OTHER N Mexico

Site Location STATE: NM

Section D Required Client Information

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

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

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	8260 BTEX	8015 DRO	8015 GRO	HPC						Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 6010728
1	B-076034-92711-CB-B-7(20-22)	SL	G	—		9.27.11	1250		3	X						X			X	X	X	2WGFU					1AG34		2VG4U 2DG9G 001
2	temp blank	WT				9.28.11	0830		1																				
3	trip blank	WT				9.28.11	2030		1										X			1VG9U							002
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Return HPC directly to Frontenac Lab:	Cassie Brown / CRA	9.28.11	2030	[signature]	9/29/11	09:00	3.4	Y	Y	Y
808 West Mckay										
Frontenac, KS 66763										
							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: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown

DATE Signed (MM/DD/YY): 9.28.11

*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

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA Project # 60007128

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ____

Tracking #: 8768 0337 5699 Pace Shipping Label Used? ☐ Yes ☑ No

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

Optional
Proj. Due Date: 10/11/11
Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ____

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 3.4°C

Temperature should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 9/29/11 DKM

Chain of Custody present:	☑Yes	☐No	☐N/A
Chain of Custody filled out:	☑Yes	☐No	☐N/A
Chain of Custody relinquished:	☑Yes	☐No	☐N/A
Sampler name & signature on COC:	☑Yes	☐No	☐N/A
Samples arrived within holding time:	☑Yes	☐No	☐N/A
Short Hold Time analyses (<72hr):	☑Yes	☐No	☐N/A
Rush Turn Around Time requested:	☐Yes	☑No	☐N/A
Sufficient volume:	☑Yes	☐No	☐N/A
Correct containers used:	☑Yes	☐No	☐N/A
-Pace containers used:	☑Yes	☐No	☐N/A
Containers intact:	☑Yes	☐No	☐N/A
Unpreserved 5035A soils frozen w/in 48hrs?	☑Yes	☐No	☐N/A
Filtered volume received for dissolved tests	☐Yes	☐No	☑N/A
Sample labels match COC:	☑Yes	☐No	☐N/A
-Includes date/time/ID/analyses Matrix: SL WT			
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
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes	☐No	
Trip Blank present:	☑Yes	☐No	☐N/A
Pace Trip Blank lot # (if purchased): 09041-3			
Headspace in VOA vials (>6mm):	☐Yes	☐No	☑N/A
Project sampled in USDA Regulated Area:	☐Yes	☑No	☐N/A

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. Initial when completed DKM Lot # of added preservative 15. 16. 17. List State: NA

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

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: ____

Project Manager Review: DKM Date: 9/30/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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

October 11, 2011

Angela Bown
COP Conestoga-Rovers & Associa
6121 Indian School Rd
#200
Albuquerque, NM 87110

RE: Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Dear Angela Bown:
Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Colleen Koporc for
Dianna Meier
dianna.meier@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa

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

CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60107468001	S-07503A-10311-CB-B8(108-110)	Solid	10/03/11 16:50	10/05/11 09:10
60107468002	TRIP BLANK	Water	10/04/11 06:00	10/05/11 09:10
60107468003	GW-075034-10411-CB-B-8	Water	10/04/11 09:15	10/05/11 09:10

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

SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60107468001	**S-07503A-10311-CB-B8(108-110)**	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 8260	RAB	8
		ASTM D2974-87	JAH	1
60107468002	**TRIP BLANK**	EPA 8260	BRM	9
60107468003	**GW-075034-10411-CB-B-8**	EPA 8015B	SDR	3
		EPA 5030B/8015B	PRG	3
		EPA 8260	BRM	9

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 11, 2011

General Information:
2 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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 3510C with any exceptions noted below.
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.

Method Blank:
All analytes were below the report limit in the method blank 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: GCSV/11297

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

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Method: **EPA 8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 11, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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 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.

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 11, 2011

General Information:
1 sample was analyzed for EPA 5030B/8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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/3872

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

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 11, 2011

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/40612

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

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 11, 2011

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/40679

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

QC Batch: MSV/40730

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

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

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: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Sample: S-07503A-10311-CB-B8(108-110) **Lab ID: 60107468001** Collected: 10/03/11 16:50 Received: 10/05/11 09:10 Matrix: Solid

Results reported on a "dry-weight" basis

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	10.3	1	10/05/11 00:00	10/07/11 22:22		
n-Tetracosane (S)	86	%	41-130	1	10/05/11 00:00	10/07/11 22:22	646-31-1	
p-Terphenyl (S)	81	%	39-130	1	10/05/11 00:00	10/07/11 22:22	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	16.2	1	10/06/11 00:00	10/07/11 01:05		
4-Bromofluorobenzene (S)	108	%	68-134	1	10/06/11 00:00	10/07/11 01:05	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.7	1		10/05/11 21:28	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1		10/05/11 21:28	100-41-4	
Toluene	ND	ug/kg	5.7	1		10/05/11 21:28	108-88-3	
Xylene (Total)	ND	ug/kg	5.7	1		10/05/11 21:28	1330-20-7	
Dibromofluoromethane (S)	104	%	68-129	1		10/05/11 21:28	1868-53-7	
Toluene-d8 (S)	100	%	81-121	1		10/05/11 21:28	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-131	1		10/05/11 21:28	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	77-131	1		10/05/11 21:28	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**3.9**	%	0.50	1		10/05/11 00:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Sample: TRIP BLANK **Lab ID: 60107468002** Collected: 10/04/11 06:00 Received: 10/05/11 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/07/11 15:17	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/07/11 15:17	100-41-4	
Toluene	ND	ug/L	1.0	1		10/07/11 15:17	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/07/11 15:17	1330-20-7	
Dibromofluoromethane (S)	102	%	86-112	1		10/07/11 15:17	1868-53-7	
Toluene-d8 (S)	98	%	90-110	1		10/07/11 15:17	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-113	1		10/07/11 15:17	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	82-119	1		10/07/11 15:17	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/07/11 15:17		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Sample: GW-075034-10411-CB-B-8 **Lab ID: 60107468003** Collected: 10/04/11 09:15 Received: 10/05/11 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C							
TPH-DRO	ND	mg/L	0.61	1	10/05/11 00:00	10/07/11 21:04		
p-Terphenyl (S)	77	%	40-118	1	10/05/11 00:00	10/07/11 21:04	92-94-4	
n-Tetracosane (S)	77	%	36-120	1	10/05/11 00:00	10/07/11 21:04	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
TPH-GRO	**6.8**	mg/L	0.50	1		10/07/11 20:57		
4-Bromofluorobenzene (S)	104	%	63-139	1		10/07/11 20:57	460-00-4	
Preservation pH	**1.0**			1		10/07/11 20:57		
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**307**	ug/L	10.0	10		10/09/11 15:08	71-43-2	
Ethylbenzene	**57.8**	ug/L	1.0	1		10/07/11 15:34	100-41-4	
Toluene	**723**	ug/L	10.0	10		10/09/11 15:08	108-88-3	
Xylene (Total)	**758**	ug/L	30.0	10		10/09/11 15:08	1330-20-7	
Dibromofluoromethane (S)	95	%	86-112	1		10/07/11 15:34	1868-53-7	
Toluene-d8 (S)	99	%	90-110	1		10/07/11 15:34	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	1		10/07/11 15:34	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	82-119	1		10/07/11 15:34	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/07/11 15:34		

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

QC Batch: OEXT/30530 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60107468001

METHOD BLANK: 886492 Matrix: Solid
Associated Lab Samples: 60107468001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.8	10/07/11 21:37	
n-Tetracosane (S)	%	81	41-130	10/07/11 21:37	
p-Terphenyl (S)	%	77	39-130	10/07/11 21:37	

LABORATORY CONTROL SAMPLE: 886493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	81.2	74.9	92	57-120	
n-Tetracosane (S)	%			90	41-130	
p-Terphenyl (S)	%			87	39-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 886494 886495

Parameter	Units	60107468001 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	85.8	84.6	78.6	77.9	89	89	36-125	1	28	
n-Tetracosane (S)	%						90	89	41-130			
p-Terphenyl (S)	%						83	85	39-130			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

QC Batch: OEXT/30528 Analysis Method: EPA 8015B
QC Batch Method: EPA 3510C Analysis Description: EPA 8015B
Associated Lab Samples: 60107468003

METHOD BLANK: 886472 Matrix: Water
Associated Lab Samples: 60107468003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	10/07/11 20:42	
n-Tetracosane (S)	%	76	36-120	10/07/11 20:42	
p-Terphenyl (S)	%	79	40-118	10/07/11 20:42	

LABORATORY CONTROL SAMPLE: 886473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	2.1	84	48-119	
n-Tetracosane (S)	%			82	36-120	
p-Terphenyl (S)	%			82	40-118	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

QC Batch: GCV/3868
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8015B
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60107468001

METHOD BLANK: 886597 Matrix: Solid
Associated Lab Samples: 60107468001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/06/11 20:09	
4-Bromofluorobenzene (S)	%	98	68-134	10/06/11 20:09	

LABORATORY CONTROL SAMPLE: 886598

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	53.3	107	77-122	
4-Bromofluorobenzene (S)	%			98	68-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 887740 887741

Parameter	Units	60107280002 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	57.8	57.8	55.4	58.5	96	101	51-130	5	27	
4-Bromofluorobenzene (S)	%						96	98	68-134			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

QC Batch: GCV/3872
QC Batch Method: EPA 5030B/8015B
Analysis Method: EPA 5030B/8015B
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60107468003

METHOD BLANK: 887758
Matrix: Water
Associated Lab Samples: 60107468003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/L	ND	0.50	10/07/11 20:35	
4-Bromofluorobenzene (S)	%	94	63-139	10/07/11 20:35	

LABORATORY CONTROL SAMPLE: 887759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/L	1	1.1	106	74-127	
4-Bromofluorobenzene (S)	%			96	63-139	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

QC Batch: MSV/40612
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60107468001

METHOD BLANK: 886442
Matrix: Solid
Associated Lab Samples: 60107468001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/05/11 19:42	
Ethylbenzene	ug/kg	ND	5.0	10/05/11 19:42	
Toluene	ug/kg	ND	5.0	10/05/11 19:42	
Xylene (Total)	ug/kg	ND	5.0	10/05/11 19:42	
1,2-Dichloroethane-d4 (S)	%	99	77-131	10/05/11 19:42	
4-Bromofluorobenzene (S)	%	98	75-131	10/05/11 19:42	
Dibromofluoromethane (S)	%	99	68-129	10/05/11 19:42	
Toluene-d8 (S)	%	101	81-121	10/05/11 19:42	

LABORATORY CONTROL SAMPLE: 886443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	92.7	93	84-119	
Ethylbenzene	ug/kg	100	92.0	92	80-120	
Toluene	ug/kg	100	90.0	90	83-117	
Xylene (Total)	ug/kg	300	268	89	80-120	
1,2-Dichloroethane-d4 (S)	%			98	77-131	
4-Bromofluorobenzene (S)	%			100	75-131	
Dibromofluoromethane (S)	%			98	68-129	
Toluene-d8 (S)	%			100	81-121	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

QC Batch: MSV/40679 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60107468002, 60107468003

METHOD BLANK: 887904 Matrix: Water
Associated Lab Samples: 60107468002, 60107468003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/07/11 13:03	
Ethylbenzene	ug/L	ND	1.0	10/07/11 13:03	
Toluene	ug/L	ND	1.0	10/07/11 13:03	
Xylene (Total)	ug/L	ND	3.0	10/07/11 13:03	
1,2-Dichloroethane-d4 (S)	%	97	82-119	10/07/11 13:03	
4-Bromofluorobenzene (S)	%	102	87-113	10/07/11 13:03	
Dibromofluoromethane (S)	%	99	86-112	10/07/11 13:03	
Toluene-d8 (S)	%	99	90-110	10/07/11 13:03	

LABORATORY CONTROL SAMPLE: 887905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.7	103	82-117	
Ethylbenzene	ug/L	20	21.3	106	79-121	
Toluene	ug/L	20	21.5	108	80-120	
Xylene (Total)	ug/L	60	63.7	106	79-120	
1,2-Dichloroethane-d4 (S)	%			99	82-119	
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			97	86-112	
Toluene-d8 (S)	%			101	90-110	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

QC Batch: MSV/40730
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60107468003

METHOD BLANK: 888881 Matrix: Water
Associated Lab Samples: 60107468003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/09/11 11:15	
Toluene	ug/L	ND	1.0	10/09/11 11:15	
Xylene (Total)	ug/L	ND	3.0	10/09/11 11:15	
1,2-Dichloroethane-d4 (S)	%	106	82-119	10/09/11 11:15	
4-Bromofluorobenzene (S)	%	99	87-113	10/09/11 11:15	
Dibromofluoromethane (S)	%	108	86-112	10/09/11 11:15	
Toluene-d8 (S)	%	99	90-110	10/09/11 11:15	

LABORATORY CONTROL SAMPLE: 888882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.3	92	82-117	
Toluene	ug/L	20	19.1	95	80-120	
Xylene (Total)	ug/L	60	57.0	95	79-120	
1,2-Dichloroethane-d4 (S)	%			104	82-119	
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			108	86-112	
Toluene-d8 (S)	%			99	90-110	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

QC Batch: PMST/6573
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60107468001

METHOD BLANK: 886847
Matrix: Solid
Associated Lab Samples: 60107468001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/05/11 00:00	

SAMPLE DUPLICATE: 886848

Parameter	Units	60107468001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.9	4.5	13	20	

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

BATCH QUALIFIERS

Batch: MSV/40612
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/30528
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: GCV/3872
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/40679
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/40730
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107468

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60107468001	**S-07503A-10311-CB-B8(108-110)**	EPA 3546	OEXT/30530	EPA 8015B	GCSV/11298
60107468003	**GW-075034-10411-CB-B-8**	EPA 3510C	OEXT/30528	EPA 8015B	GCSV/11297
60107468001	**S-07503A-10311-CB-B8(108-110)**	EPA 5035A/5030B	GCV/3868	EPA 8015B	GCV/3870
60107468003	**GW-075034-10411-CB-B-8**	EPA 5030B/8015B	GCV/3872		
60107468001	**S-07503A-10311-CB-B8(108-110)**	EPA 8260	MSV/40612		
60107468002	**TRIP BLANK**	EPA 8260	MSV/40679		
60107468003	**GW-075034-10411-CB-B-8**	EPA 8260	MSV/40679		
60107468003	**GW-075034-10411-CB-B-8**	EPA 8260	MSV/40730		
60107468001	**S-07503A-10311-CB-B8(108-110)**	ASTM D2974-87	PMST/6573		

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: 1 of 1

1373060

Section A
Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd #200, Albuquerque, NM 87110
Email To:	CWbrown@Crawford.com
Phone: 505-884-0672	Fax:
Requested Due Date/TAT:	3 day

Section B
Required Project Information:

Report To:	Kelly Blanchard - kblanchard@crawford.com
Copy To:	Cassie Brown - Cwbrown@Crawford.com; Angie brown - abrown@crawford.com
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	075034

Section C
Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: NM

Section D
Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	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	BTEX	TPH-DRO	TPH-GRO/% Moisture		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60107468
1	S-075034-10311-CB-B8(10-10)	SL	G	—	—	10.3.11	1050		5	X	1DG9M					X			X	X	X	2UG9U 2DG9B 1WG2U		001
2	trip blank	WT	—	—	—	10.4.11	0600		1										X			1DG9H		002
3	GW-075034-10411-CB-B-8	WT	G	—	—	10.4.11	0915		8		3 6DG9H PW10-5-11								X	X	X	2WGFU 2AG1U		003
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

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)
	Cassie Brown CRA	10.4.11	~~1600~~ 1630 (WB 10.4.11)							
				[signature]	10-5-11	090	2.4	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10.4.11

*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.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA   Project # 60007468

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ____

Tracking #: 876803375703   Pace Shipping Label Used? ☐ Yes ☒ No

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

Optional	
Proj. Due Date:	10/10/11
Proj. Name:	

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

Thermometer Used: (T-191) / T-194   Type of Ice: (Wet) Blue None   ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2.4

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: ~~PV 10-5-11~~ PV 10-5-11 PV10-5-11

		Comments:
Chain of Custody present:	☒Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☒Yes ☐No ☐N/A	2.
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. Kits
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	9.
-Pace containers used:	☒Yes ☐No ☐N/A	
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.
Sample labels match COC:	☒Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT/SL		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
Exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed ____ Lot # of added preservative ____
Trip Blank present:	☒Yes ☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased): 090511-3		
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State: ____

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

Person Contacted: ____________   Date/Time: ____________

Comments/ Resolution: ____________

Project Manager Review: CBK for DEM 10/5/11   Date: ________

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.05, 19February2010

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

11/02/11

Project: SAN JUAN 29-7 UNIT 37 (075034)

Pace Project 60108485

Two soil samples and a trip blank were received for BTEX analysis by EPA Methods 5035A/8260. Sample S-075034-101811-CM-B-10(46-48) presented with an extremely high concentration in the aromatic region. This elevated concentration necessitated a 5000-fold dilution to achieve reportable results. The high level of volatile analytes in this sample likely contributed to the detectable results in the associated Trip Blank and possibly the results reported in the second soil sample-specifically S-075034-101811-CMB10(105-107.) The Trip Blank was reanalyzed from a different vial two days later and the results confirmed. This was likely due to the elevated concentrations in the first sample or the level of contamination at the site, in general.

Thanks,

Charles Morrow

CHARLES MORROW

Quality Assurance Manager
Direct number: (913) 563-1444

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Main # (913)599-5665
Fax # (913)599-1759

Charles.Morrow@pacelabs.com

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

October 25, 2011

Cassie Brown
COP Conestoga-Rovers & Associa

RE: Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Dear Cassie Brown:
Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Anna Custer

anna.custer@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Christine Matthews, CRA

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

CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60108135001	S-075034-101311-CB-B9(100-102)	Solid	10/13/11 16:55	10/15/11 08:20
60108135002	GW-075034-101411-CB-B-9	Water	10/14/11 10:40	10/15/11 08:20
60108135003	TRIP BLANK 1 (WATER)	Water	10/14/11 15:00	10/15/11 08:20
60108135004	TRIP BLANK 2 (SOIL)	Solid	10/14/11 15:00	10/15/11 08:20

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

SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60108135001	S-075034-101311-CB-B9(100-102)	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 8260	RAB	8
		ASTM D2974-87	DWC	1
60108135002	GW-075034-101411-CB-B-9	EPA 8015B	SDR	3
		EPA 5030B/8015B	PRG	3
		EPA 8260	PRG	9
60108135003	TRIP BLANK 1 (WATER)	EPA 8260	PRG	9
60108135004	TRIP BLANK 2 (SOIL)	EPA 8260	RAB	8

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Method: EPA 8015B
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 25, 2011

General Information:
2 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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 3510C with any exceptions noted below.
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.

Method Blank:
All analytes were below the report limit in the method blank 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: GCSV/11380

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

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Method: **EPA 8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 25, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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 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.

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 25, 2011

General Information:
1 sample was analyzed for EPA 5030B/8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

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

QC Batch: GCV/3899

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- GW-075034-101411-CB-B-9 (Lab ID: 60108135002)
  - 4-Bromofluorobenzene (S)

Method Blank:
All analytes were below the report limit in the method blank 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/3899

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

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 25, 2011

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/40976

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

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

Additional Comments:

Pace Analytical®
www.pacelabs.com

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 25, 2011

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/40936

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

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

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: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Sample: S-075034-101311-CB-B9(100-102) **Lab ID: 60108135001** Collected: 10/13/11 16:55 Received: 10/15/11 08:20 Matrix: Solid

Results reported on a "dry-weight" basis

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	10/17/11 00:00	10/18/11 19:29		
n-Tetracosane (S)	89	%	41-130	1	10/17/11 00:00	10/18/11 19:29	646-31-1	
p-Terphenyl (S)	84	%	39-130	1	10/17/11 00:00	10/18/11 19:29	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B		Preparation Method: EPA 5035A/5030B					
TPH-GRO	ND	mg/kg	20.2	1	10/20/11 00:00	10/25/11 05:05		
4-Bromofluorobenzene (S)	101	%	68-134	1	10/20/11 00:00	10/25/11 05:05	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.6	1		10/18/11 18:45	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1		10/18/11 18:45	100-41-4	
Toluene	ND	ug/kg	5.6	1		10/18/11 18:45	108-88-3	
Xylene (Total)	ND	ug/kg	5.6	1		10/18/11 18:45	1330-20-7	
Dibromofluoromethane (S)	95	%	68-129	1		10/18/11 18:45	1868-53-7	
Toluene-d8 (S)	100	%	81-121	1		10/18/11 18:45	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-131	1		10/18/11 18:45	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	77-131	1		10/18/11 18:45	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**6.2**	%	0.50	1		10/17/11 00:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Sample: GW-075034-101411-CB-B-9 **Lab ID: 60108135002** Collected: 10/14/11 10:40 Received: 10/15/11 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C							
TPH-DRO	ND	mg/L	1.6	1	10/18/11 00:00	10/20/11 03:44		
p-Terphenyl (S)	83	%	40-118	1	10/18/11 00:00	10/20/11 03:44	92-94-4	
n-Tetracosane (S)	83	%	36-120	1	10/18/11 00:00	10/20/11 03:44	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
TPH-GRO	ND	mg/L	0.50	1		10/24/11 13:35		
4-Bromofluorobenzene (S)	147	%	63-139	1		10/24/11 13:35	460-00-4	S3
Preservation pH	**1.0**			1		10/24/11 13:35		
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/17/11 22:18	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/17/11 22:18	100-41-4	
Toluene	ND	ug/L	1.0	1		10/17/11 22:18	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/17/11 22:18	1330-20-7	
Dibromofluoromethane (S)	103	%	86-112	1		10/17/11 22:18	1868-53-7	
Toluene-d8 (S)	97	%	90-110	1		10/17/11 22:18	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-113	1		10/17/11 22:18	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	82-119	1		10/17/11 22:18	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/17/11 22:18		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Sample: TRIP BLANK 1 (WATER) **Lab ID: 60108135003** Collected: 10/14/11 15:00 Received: 10/15/11 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/17/11 22:32	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/17/11 22:32	100-41-4	
Toluene	ND	ug/L	1.0	1		10/17/11 22:32	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/17/11 22:32	1330-20-7	
Dibromofluoromethane (S)	100	%	86-112	1		10/17/11 22:32	1868-53-7	
Toluene-d8 (S)	100	%	90-110	1		10/17/11 22:32	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	1		10/17/11 22:32	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	82-119	1		10/17/11 22:32	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/17/11 22:32		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Sample: TRIP BLANK 2 (SOIL) **Lab ID: 60108135004** Collected: 10/14/11 15:00 Received: 10/15/11 08:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.0	1		10/18/11 18:14	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1		10/18/11 18:14	100-41-4	
Toluene	ND	ug/kg	5.0	1		10/18/11 18:14	108-88-3	
Xylene (Total)	ND	ug/kg	5.0	1		10/18/11 18:14	1330-20-7	
Dibromofluoromethane (S)	97	%	68-129	1		10/18/11 18:14	1868-53-7	
Toluene-d8 (S)	101	%	81-121	1		10/18/11 18:14	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-131	1		10/18/11 18:14	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	77-131	1		10/18/11 18:14	17060-07-0	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

QC Batch: OEXT/30698 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60108135001

METHOD BLANK: 892568 Matrix: Solid
Associated Lab Samples: 60108135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.8	10/19/11 11:15	
n-Tetracosane (S)	%	91	41-130	10/19/11 11:15	
p-Terphenyl (S)	%	86	39-130	10/19/11 11:15	

LABORATORY CONTROL SAMPLE: 892569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	82.2	56.2	68	57-120	
n-Tetracosane (S)	%			84	41-130	
p-Terphenyl (S)	%			81	39-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 892570 892571

Parameter	Units	60108069001 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	92.3	92.5	68.1	68.6	70	71	36-125	1	28	
n-Tetracosane (S)	%						89	86	41-130			
p-Terphenyl (S)	%						87	84	39-130			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

QC Batch: OEXT/30712 Analysis Method: EPA 8015B
QC Batch Method: EPA 3510C Analysis Description: EPA 8015B
Associated Lab Samples: 60108135002

METHOD BLANK: 893093 Matrix: Water
Associated Lab Samples: 60108135002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	10/20/11 02:56	
n-Tetracosane (S)	%	65	36-120	10/20/11 02:56	
p-Terphenyl (S)	%	78	40-118	10/20/11 02:56	

LABORATORY CONTROL SAMPLE: 893094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	1.8	72	48-119	
n-Tetracosane (S)	%			79	36-120	
p-Terphenyl (S)	%			86	40-118	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

QC Batch: GCV/3897 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60108135001

METHOD BLANK: 894789 Matrix: Solid
Associated Lab Samples: 60108135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/25/11 01:17	
4-Bromofluorobenzene (S)	%	99	68-134	10/25/11 01:17	

LABORATORY CONTROL SAMPLE: 894790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	50.9	102	77-122	
4-Bromofluorobenzene (S)	%			99	68-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 895550 895551

Parameter	Units	60108251004 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	60	60	66.3	65.5	101	100	51-130	1	27	
4-Bromofluorobenzene (S)	%						101	102	68-134			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

QC Batch: GCV/3899
QC Batch Method: EPA 5030B/8015B
Analysis Method: EPA 5030B/8015B
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60108135002

METHOD BLANK: 895535
Matrix: Water
Associated Lab Samples: 60108135002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/L	ND	0.50	10/24/11 12:36	
4-Bromofluorobenzene (S)	%	90	63-139	10/24/11 12:36	

LABORATORY CONTROL SAMPLE: 895536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/L	1	0.93	93	74-127	
4-Bromofluorobenzene (S)	%			93	63-139	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

QC Batch: MSV/40976 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60108135001, 60108135004

METHOD BLANK: 893434 Matrix: Solid
Associated Lab Samples: 60108135001, 60108135004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/18/11 13:09	
Ethylbenzene	ug/kg	ND	5.0	10/18/11 13:09	
Toluene	ug/kg	ND	5.0	10/18/11 13:09	
Xylene (Total)	ug/kg	ND	5.0	10/18/11 13:09	
1,2-Dichloroethane-d4 (S)	%	110	77-131	10/18/11 13:09	
4-Bromofluorobenzene (S)	%	102	75-131	10/18/11 13:09	
Dibromofluoromethane (S)	%	96	68-129	10/18/11 13:09	
Toluene-d8 (S)	%	100	81-121	10/18/11 13:09	

LABORATORY CONTROL SAMPLE: 893435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	103	103	84-119	
Ethylbenzene	ug/kg	100	99.6	100	80-120	
Toluene	ug/kg	100	96.0	96	83-117	
Xylene (Total)	ug/kg	300	296	99	80-120	
1,2-Dichloroethane-d4 (S)	%			110	77-131	
4-Bromofluorobenzene (S)	%			102	75-131	
Dibromofluoromethane (S)	%			98	68-129	
Toluene-d8 (S)	%			99	81-121	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

QC Batch: MSV/40936 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60108135002, 60108135003

METHOD BLANK: 892960 Matrix: Water
Associated Lab Samples: 60108135002, 60108135003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/17/11 19:41	
Ethylbenzene	ug/L	ND	1.0	10/17/11 19:41	
Toluene	ug/L	ND	1.0	10/17/11 19:41	
Xylene (Total)	ug/L	ND	3.0	10/17/11 19:41	
1,2-Dichloroethane-d4 (S)	%	101	82-119	10/17/11 19:41	
4-Bromofluorobenzene (S)	%	100	87-113	10/17/11 19:41	
Dibromofluoromethane (S)	%	100	86-112	10/17/11 19:41	
Toluene-d8 (S)	%	98	90-110	10/17/11 19:41	

LABORATORY CONTROL SAMPLE: 892961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.9	100	82-117	
Ethylbenzene	ug/L	20	21.1	106	79-121	
Toluene	ug/L	20	20.4	102	80-120	
Xylene (Total)	ug/L	60	61.3	102	79-120	
1,2-Dichloroethane-d4 (S)	%			97	82-119	
4-Bromofluorobenzene (S)	%			102	87-113	
Dibromofluoromethane (S)	%			101	86-112	
Toluene-d8 (S)	%			100	90-110	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

QC Batch: PMST/6597
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60108135001

METHOD BLANK: 892408
Matrix: Solid
Associated Lab Samples: 60108135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/17/11 00:00	

SAMPLE DUPLICATE: 892409

Parameter	Units	60108041001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.5	8.6	10	20	

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

BATCH QUALIFIERS

Batch: MSV/40936

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

Batch: OEXT/30712

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

Batch: MSV/40976

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

Batch: GCV/3899

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

ANALYTE QUALIFIERS

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108135

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60108135001	**S-075034-101311-CB-B9(100-102)**	EPA 3546	OEXT/30698	EPA 8015B	GCSV/11366
60108135002	**GW-075034-101411-CB-B-9**	EPA 3510C	OEXT/30712	EPA 8015B	GCSV/11380
60108135001	**S-075034-101311-CB-B9(100-102)**	EPA 5035A/5030B	GCV/3897	EPA 8015B	GCV/3900
60108135002	**GW-075034-101411-CB-B-9**	EPA 5030B/8015B	GCV/3899		
60108135001	**S-075034-101311-CB-B9(100-102)**	EPA 8260	MSV/40976		
60108135004	**TRIP BLANK 2 (SOIL)**	EPA 8260	MSV/40976		
60108135002	**GW-075034-101411-CB-B-9**	EPA 8260	MSV/40936		
60108135003	**TRIP BLANK 1 (WATER)**	EPA 8260	MSV/40936		
60108135001	**S-075034-101311-CB-B9(100-102)**	ASTM D2974-87	PMST/6597		

Pace Analytical™

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200, Albuquerque, NM 87110
Email To:	cmbrown@craworld.com
Phone:	(505)884-0672
Fax:	(505)884-4932
Requested Due Date/TAT:	~~standard~~ 3day

Section B Required Project Information:

Report To:	Cassie Brown
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	75034

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Koporc
Pace Profile #:	

REGULATORY AGENCY: NPDES / GROUND WATER / DRINKING WATER / UST / RCRA / OTHER: X NMOCD

Site Location STATE: NM

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	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	8260 BTEX	8015 DRO	8015 GRO	HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	S-075034-101311-CB-B-9 (100-102)	SL	G	—	—	101311	1055		3	X	1DG9M					X	1DG9B		X	X	X	2DG9U 1UG2U	2UGFU	001
2	GW-075034-101411-CB-B-9	WT	G	—	—	101411	1040		10	X			X	7BG9U		ASGU		10/15/11	X	X	X	5DG9H		002
3	trip blank	WT	—	—	—	101411	1500		1				X						X			1DG9H 1LG9U		003/004
4	trip blank 2	WT	—	—	—	101411	1500		1				X						X					
5	temp blank					101411	1500																	
6																								
7																								
8																								
9																								
10																								
11																								
12																								

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)
Return HPC directly to Frontenac Lab:	Cassie Brown / CRA	10.14.11	1600	Phung/Pace	10/15/11	0820	0.5	Y	N	Y
808 West Mckay										
Frontenac, KS 66763										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown

DATE Signed (MM/DD/YY): 10.14.11

*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

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: COP CRA Project # 600 8135

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ____

Tracking #: 8768 3969 1158 Pace Shipping Label Used? ☐ Yes ☑ No

Optional
Proj. Due Date: 10/19/11
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ~~☑ Yes~~ ☑ No PM 10-15-11

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☐ Other ____

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 0.5
Temperature should be above freezing to 6°C

Date and Initials of person examining contents: PM 10-15-11

Comments:

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
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: PM 10-15-11	☑Yes ~~☑No~~ ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9.
-Pace containers used:	☑Yes ☐No ☐N/A	
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.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT / SL		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed ____ Lot # of added preservative ____
Trip Blank present:	☑Yes ☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased): 080911-3 / 090511-3		
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: ____ ly

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

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: ____

Project Manager Review: MW for ACH Date: 10/19/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.05, 19February2010

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

November 02, 2011

Cassie Brown
COP Conestoga-Rovers & Associa

RE: Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

Dear Cassie Brown:
Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Anna Custer

anna.custer@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Christine Matthews, CRA

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

CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60108485001	S-075034-101811-CM-B-10(46-48)	Solid	10/18/11 12:45	10/20/11 08:50
60108485002	S-075034-101811-CMB10(105-107)	Solid	10/18/11 16:30	10/20/11 08:50
60108485003	TB-101911-001	Solid	10/18/11 00:00	10/20/11 08:50

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

SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60108485001	**S-075034-101811-CM-B-10(46-48)**	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 5035A/8260	RAB	7
		ASTM D2974-87	DWC	1
60108485002	**S-075034-101811-CMB10(105-107)**	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 5035A/8260	RAB	7
		ASTM D2974-87	DWC	1
60108485003	**TB-101911-001**	EPA 5035A/8260	RAB	7

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 02, 2011

General Information:
2 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

Method Blank:
All analytes were below the report limit in the method blank 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.

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

Additional Comments:

Batch Comments:

A matrix spike/matrix spike duplicate is not available for this batch due to a preparation error.
- QC Batch: OEXT / 30782

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

Method: **EPA 8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 02, 2011

General Information:
2 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

QC Batch: GCV/3904

CU: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 897373)
  - TPH-GRO

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.

QC Batch: GCV/3904

S0: Surrogate recovery outside laboratory control limits.

- S-075034-101811-CM-B-10(46-48) (Lab ID: 60108485001)
  - 4-Bromofluorobenzene (S)

Method Blank:
All analytes were below the report limit in the method blank 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/3917

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

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

Method: **EPA 8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 02, 2011

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

Method: **EPA 5035A/8260**
Description: 8260 MSV GRO and Oxygenates
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 02, 2011

General Information:
3 samples were analyzed for EPA 5035A/8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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.

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

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: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

Sample: S-075034-101811-CM-B-10(46-48) **Lab ID: 60108485001** Collected: 10/18/11 12:45 Received: 10/20/11 08:50 Matrix: Solid

Results reported on a "dry-weight" basis

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	**933**	mg/kg	25.8	2	10/21/11 00:00	10/25/11 20:30		
n-Tetracosane (S)	60	%	41-130	2	10/21/11 00:00	10/25/11 20:30	646-31-1	
p-Terphenyl (S)	52	%	39-130	2	10/21/11 00:00	10/25/11 20:30	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B		Preparation Method: EPA 5035A/5030B					
TPH-GRO	**20100**	mg/kg	1680	100	10/24/11 09:08	10/28/11 15:34		
4-Bromofluorobenzene (S)	144	%	68-134	100	10/24/11 09:08	10/28/11 15:34	460-00-4	S0
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	ND	ug/kg	42100	5000		10/28/11 11:14	71-43-2	
Ethylbenzene	**62500**	ug/kg	42100	5000		10/28/11 11:14	100-41-4	
Toluene	**333000**	ug/kg	42100	5000		10/28/11 11:14	108-88-3	
Xylene (Total)	**1120000**	ug/kg	84200	5000		10/28/11 11:14	1330-20-7	
Toluene-d8 (S)	98	%	81-121	5000		10/28/11 11:14	2037-26-5	
4-Bromofluorobenzene (S)	90	%	75-131	5000		10/28/11 11:14	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	77-131	5000		10/28/11 11:14	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**23.3**	%	0.50	1		10/25/11 00:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

Sample: S-075034-101811-CMB10(105-107) **Lab ID: 60108485002** Collected: 10/18/11 16:30 Received: 10/20/11 08:50 Matrix: Solid

Results reported on a "dry-weight" basis

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	10.5	1	10/21/11 00:00	10/24/11 20:03		
n-Tetracosane (S)	79	%	41-130	1	10/21/11 00:00	10/24/11 20:03	646-31-1	
p-Terphenyl (S)	80	%	39-130	1	10/21/11 00:00	10/24/11 20:03	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**17.6**	mg/kg	13.5	1	10/24/11 09:08	10/28/11 03:41		
4-Bromofluorobenzene (S)	101	%	68-134	1	10/24/11 09:08	10/28/11 03:41	460-00-4	
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	ND	ug/kg	5.5	1		10/28/11 10:44	71-43-2	
Ethylbenzene	**10**	ug/kg	5.5	1		10/28/11 10:44	100-41-4	
Toluene	**55.2**	ug/kg	5.5	1		10/28/11 10:44	108-88-3	
Xylene (Total)	**162**	ug/kg	11.0	1		10/28/11 10:44	1330-20-7	
Toluene-d8 (S)	92	%	81-121	1		10/28/11 10:44	2037-26-5	
4-Bromofluorobenzene (S)	91	%	75-131	1		10/28/11 10:44	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	77-131	1		10/28/11 10:44	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**5.2**	%	0.50	1		10/25/11 00:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

Sample: TB-101911-001 **Lab ID: 60108485003** Collected: 10/18/11 00:00 Received: 10/20/11 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	**12.2**	ug/kg	5.0	1		10/28/11 10:29	71-43-2	
Benzene	**13.0**	ug/kg	5.0	1		10/31/11 20:53	71-43-2	
Ethylbenzene	**12.8**	ug/kg	5.0	1		10/28/11 10:29	100-41-4	
Ethylbenzene	**9.4**	ug/kg	5.0	1		10/31/11 20:53	100-41-4	
Toluene	**208**	ug/kg	5.0	1		10/28/11 10:29	108-88-3	
Toluene	**249**	ug/kg	5.0	1		10/31/11 20:53	108-88-3	
Xylene (Total)	**187**	ug/kg	10.0	1		10/28/11 10:29	1330-20-7	
Xylene (Total)	**141**	ug/kg	10.0	1		10/31/11 20:53	1330-20-7	
Toluene-d8 (S)	113	%	81-121	1		10/31/11 20:53	2037-26-5	
Toluene-d8 (S)	98	%	81-121	1		10/28/11 10:29	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-131	1		10/31/11 20:53	460-00-4	
4-Bromofluorobenzene (S)	91	%	75-131	1		10/28/11 10:29	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	77-131	1		10/28/11 10:29	17060-07-0	
1,2-Dichloroethane-d4 (S)	106	%	77-131	1		10/31/11 20:53	17060-07-0	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

QC Batch: OEXT/30782 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60108485001, 60108485002

METHOD BLANK: 895610 Matrix: Solid
Associated Lab Samples: 60108485001, 60108485002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.8	10/24/11 18:45	
n-Tetracosane (S)	%	76	41-130	10/24/11 18:45	
p-Terphenyl (S)	%	82	39-130	10/24/11 18:45	

LABORATORY CONTROL SAMPLE: 895611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	82.6	67.2	81	57-120	
n-Tetracosane (S)	%			76	41-130	
p-Terphenyl (S)	%			82	39-130	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

QC Batch: GCV/3904 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60108485001, 60108485002

METHOD BLANK: 897372 Matrix: Solid
Associated Lab Samples: 60108485001, 60108485002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/26/11 18:46	
4-Bromofluorobenzene (S)	%	95	68-134	10/26/11 18:46	

METHOD BLANK: 899343 Matrix: Solid
Associated Lab Samples: 60108485001, 60108485002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/28/11 15:11	
4-Bromofluorobenzene (S)	%	94	68-134	10/28/11 15:11	

METHOD BLANK: 900720 Matrix: Solid
Associated Lab Samples: 60108485001, 60108485002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/28/11 15:11	
4-Bromofluorobenzene (S)	%	94	68-134	10/28/11 15:11	

LABORATORY CONTROL SAMPLE: 897373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	47.6	95	77-122	CU
4-Bromofluorobenzene (S)	%			93	68-134	

LABORATORY CONTROL SAMPLE: 899344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	48.5	97	77-122	
4-Bromofluorobenzene (S)	%			97	68-134	

LABORATORY CONTROL SAMPLE: 900721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	48.5	97	77-122	
4-Bromofluorobenzene (S)	%			97	68-134	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 897374 897375

Parameter	Units	60108495001 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	83.6	83.6	73.6	74.9	88	90	51-130	2	27	
4-Bromofluorobenzene (S)	%						95	96	68-134			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

QC Batch: MSV/41217 Analysis Method: EPA 5035A/8260
QC Batch Method: EPA 5035A/8260 Analysis Description: 8260 MSV GRO and Oxygenates
Associated Lab Samples: 60108485001, 60108485002, 60108485003

METHOD BLANK: 900327 Matrix: Solid
Associated Lab Samples: 60108485001, 60108485002, 60108485003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/28/11 10:13	
Ethylbenzene	ug/kg	ND	5.0	10/28/11 10:13	
Toluene	ug/kg	ND	5.0	10/28/11 10:13	
Xylene (Total)	ug/kg	ND	10.0	10/28/11 10:13	
1,2-Dichloroethane-d4 (S)	%	90	77-131	10/28/11 10:13	
4-Bromofluorobenzene (S)	%	90	75-131	10/28/11 10:13	
Toluene-d8 (S)	%	89	81-121	10/28/11 10:13	

METHOD BLANK: 902874 Matrix: Solid
Associated Lab Samples: 60108485001, 60108485002, 60108485003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/31/11 17:07	
Ethylbenzene	ug/kg	ND	5.0	10/31/11 17:07	
Toluene	ug/kg	ND	5.0	10/31/11 17:07	
Xylene (Total)	ug/kg	ND	10.0	10/31/11 17:07	
1,2-Dichloroethane-d4 (S)	%	105	77-131	10/31/11 17:07	
4-Bromofluorobenzene (S)	%	101	75-131	10/31/11 17:07	
Toluene-d8 (S)	%	106	81-121	10/31/11 17:07	

LABORATORY CONTROL SAMPLE: 900328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	96.6	97	84-119	
Ethylbenzene	ug/kg	100	99.1	99	80-120	
Toluene	ug/kg	100	87.2	87	83-117	
Xylene (Total)	ug/kg	300	298	99	80-120	
1,2-Dichloroethane-d4 (S)	%			94	77-131	
4-Bromofluorobenzene (S)	%			90	75-131	
Toluene-d8 (S)	%			89	81-121	

LABORATORY CONTROL SAMPLE: 902875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	97.3	97	84-119	
Ethylbenzene	ug/kg	100	102	102	80-120	
Toluene	ug/kg	100	97.9	98	83-117	
Xylene (Total)	ug/kg	300	300	100	80-120	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

LABORATORY CONTROL SAMPLE: 902875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			95	77-131	
4-Bromofluorobenzene (S)	%			99	75-131	
Toluene-d8 (S)	%			101	81-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 900521 900522

Parameter	Units	60108407001 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	107	101	71.6	51.4	67	51	28-145	33	35	
Ethylbenzene	ug/kg	ND	107	101	62.7	45.1	59	45	20-141	33	39	
Toluene	ug/kg	ND	107	101	62.2	44.1	58	44	19-148	34	37	
Xylene (Total)	ug/kg	ND	321	301	181	131	56	43	10-140	32	39	
1,2-Dichloroethane-d4 (S)	%						107	107	77-131			
4-Bromofluorobenzene (S)	%						94	92	75-131			
Toluene-d8 (S)	%						91	91	81-121			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

QC Batch: PMST/6623 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60108485001, 60108485002

METHOD BLANK: 897656 Matrix: Solid
Associated Lab Samples: 60108485001, 60108485002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/25/11 00:00	

SAMPLE DUPLICATE: 897657

Parameter	Units	60108485001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.3	23.1	1	20	

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

BATCH QUALIFIERS

Batch: OEXT/30782

[1] A matrix spike/matrix spike duplicate is not available for this batch due to a preparation error.

Batch: GCV/3917

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

ANALYTE QUALIFIERS

CU The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

S0 Surrogate recovery outside laboratory control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108485

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60108485001	**S-075034-101811-CM-B-10(46-48)**	EPA 3546	OEXT/30782	EPA 8015B	GCSV/11400
60108485002	**S-075034-101811-CMB10(105-107)**	EPA 3546	OEXT/30782	EPA 8015B	GCSV/11400
60108485001	**S-075034-101811-CM-B-10(46-48)**	EPA 5035A/5030B	GCV/3904	EPA 8015B	GCV/3917
60108485002	**S-075034-101811-CMB10(105-107)**	EPA 5035A/5030B	GCV/3904	EPA 8015B	GCV/3914
60108485001	**S-075034-101811-CM-B-10(46-48)**	EPA 5035A/8260	MSV/41217		
60108485002	**S-075034-101811-CMB10(105-107)**	EPA 5035A/8260	MSV/41217		
60108485003	**TB-101911-001**	EPA 5035A/8260	MSV/41217		
60108485001	**S-075034-101811-CM-B-10(46-48)**	ASTM D2974-87	PMST/6623		
60108485002	**S-075034-101811-CMB10(105-107)**	ASTM D2974-87	PMST/6623		

Pace Analytical™

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200 Albuquerque, NM 87110
Email To:	cmbrown@craworld.com
Phone:	(505)884-0672
Fax:	(505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Cassie Brown
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	75034

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Koporc
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: NM

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	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	8260 BTEX	8015 DRO	8015 GRO	HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60108485
1	S-074934-101811-CM-B-10(46-48)	SL	G			10.18.11	1245		8	X						X	X		X	X	X			2(vial) 1(4oz jar) 2(vial) 2(…) 1(…) 001
2	S-074934-101811-CM-B-10(105-107)	SL	G			10.18.11	1630		8	X						X	X		X	X	X			↓ 002
3	TB-101911-001	WT				10.19.11	1730		3										X					3(vial) 003
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Return HPC directly to Frontenac Lab: 808 West Mckay Frontenac, KS 66763	~~Christine Mathews~~ [signature]	10.19.11	1730	[signature]	10/20/11	850	1.3	Y	Y	Y
							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: Christine Mathews

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10-19-11

*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

Revised COC - emailed 10/21/11

Pace Analytical™

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albuquerque, NM 87110
Email To:	cmbrown@craworld.com
Phone:	(505)884-0672 Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Cassie Brown
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	75034

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Koporc
Pace Profile #:	

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [ ] UST
- [ ] RCRA
- [X] OTHER NMOCD

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)

Pace Project No./ Lab I.D.: 60108485

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	8260 BTEX	8015 DRO	8015 GRO	HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	~~S-074911~~ 101811-CM-B-10(46-48) (075034; CM 10-21-11)	SL	G			10-18-11	1245		8	X						X	X		X	X	X			2(vdm) 1(Aiv) 2(VDM) 2(007) 1(8L9M) 001
2	~~S-074934~~ 101811-CM-B-10(105-107)	SL	G			10-18-11	1630		8	X						X	X		X	X	X			002
3	TB-101911-001 (CM 10-21-11)	WT				10-19-11	1730		3										X					3(VOA) 003
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Return HPC directly to Frontenac Lab:	~~Christine Mathews~~						1.3	Y	Y	Y
808 West Mckay	Christine Mathews (signature)	10.19.11	1730	(signature)	10/20/11	830				
Frontenac, KS 66763										
							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: Christine Mathews

SIGNATURE of SAMPLER: (signature) DATE Signed (MM/DD/YY): 10-19-11

*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

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: COP CRA NM Project # 60168485

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 8766 3969 9548 Pace Shipping Label Used? ☐ Yes ☒ No

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

Optional
Proj. Due Date: 11/01
Proj. Name:

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

Thermometer Used: T-191 / T-194 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1-3

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: DMS 10/20/11 1750

			Comments:
Chain of Custody present:	☑Yes	☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes	☐No ☐N/A	2.
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	9.
-Pace containers used:	☑Yes	☐No ☐N/A	
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.
Sample labels match COC:	☑Yes	☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: water/soil			
All containers needing preservation have been checked.	☐Yes	☐No ☑N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No ☑N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes	☐No	Initial when completed N/A Lot # of added preservative
Trip Blank present:	☑Yes	☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased): 080811-3			Soil trips
Headspace in VOA vials (>6mm):	☐Yes	☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No ☒N/A	17. List State:

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

10/21 - Error in sample ID's on COC per Christine Matthews. Emailed revised COC.

Project Manager Review: [signature] Date: 10/21/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.05, 19February2010

Pace Analytical®
www.pacelabs.com

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

October 27, 2011

Cassie Brown
COP Conestoga-Rovers & Associa

RE: Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

Dear Cassie Brown:
Enclosed are the analytical results for sample(s) received by the laboratory on October 21, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Anna Custer

anna.custer@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Christine Matthews, CRA

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

CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60108495001	S-075034-102011-CBB11(100-102)	Solid	10/20/11 09:50	10/21/11 09:00
60108495002	TRIP BLANK	Solid	10/20/11 09:50	10/21/11 09:00

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

SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60108495001	**S-075034-102011-CBB11(100-102)**	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 8260	RAB	8
		ASTM D2974-87	DWC	1
60108495002	**TRIP BLANK**	EPA 8260	RAB	8

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 27, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

Method Blank:
All analytes were below the report limit in the method blank 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.

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

Additional Comments:

Batch Comments:

A matrix spike/matrix spike duplicate is not available for this batch due to a preparation error.
- QC Batch: OEXT / 30782

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

Method: **EPA 8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 27, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

QC Batch: GCV/3904

CU: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 897373)
  - TPH-GRO
- S-075034-102011-CBB11(100-102) (Lab ID: 60108495001)
  - TPH-GRO

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 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.

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

Method: EPA 8260
Description: 8260 MSV 5035A VOA
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 27, 2011

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/41097

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

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

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: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

Sample: S-075034-102011-CBB11(100-102) **Lab ID: 60108495001** Collected: 10/20/11 09:50 Received: 10/21/11 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

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	10.2	1	10/21/11 00:00	10/25/11 20:19		
n-Tetracosane (S)	78	%	41-130	1	10/21/11 00:00	10/25/11 20:19	646-31-1	
p-Terphenyl (S)	76	%	39-130	1	10/21/11 00:00	10/25/11 20:19	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	16.7	1	10/24/11 09:08	10/26/11 19:09		CU
4-Bromofluorobenzene (S)	93	%	68-134	1	10/24/11 09:08	10/26/11 19:09	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.4	1		10/22/11 11:28	71-43-2	
Ethylbenzene	ND	ug/kg	6.4	1		10/22/11 11:28	100-41-4	
Toluene	ND	ug/kg	6.4	1		10/22/11 11:28	108-88-3	
Xylene (Total)	ND	ug/kg	6.4	1		10/22/11 11:28	1330-20-7	
Dibromofluoromethane (S)	101	%	68-129	1		10/22/11 11:28	1868-53-7	
Toluene-d8 (S)	101	%	81-121	1		10/22/11 11:28	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-131	1		10/22/11 11:28	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	77-131	1		10/22/11 11:28	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**3.6**	%	0.50	1		10/24/11 00:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

Sample: TRIP BLANK **Lab ID: 60108495002** Collected: 10/20/11 09:50 Received: 10/21/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.0	1		10/22/11 10:57	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1		10/22/11 10:57	100-41-4	
Toluene	ND	ug/kg	5.0	1		10/22/11 10:57	108-88-3	
Xylene (Total)	ND	ug/kg	5.0	1		10/22/11 10:57	1330-20-7	
Dibromofluoromethane (S)	100	%	68-129	1		10/22/11 10:57	1868-53-7	
Toluene-d8 (S)	102	%	81-121	1		10/22/11 10:57	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-131	1		10/22/11 10:57	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	77-131	1		10/22/11 10:57	17060-07-0	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

QC Batch: OEXT/30782 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60108495001

METHOD BLANK: 895610 Matrix: Solid
Associated Lab Samples: 60108495001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.8	10/24/11 18:45	
n-Tetracosane (S)	%	76	41-130	10/24/11 18:45	
p-Terphenyl (S)	%	82	39-130	10/24/11 18:45	

LABORATORY CONTROL SAMPLE: 895611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	82.6	67.2	81	57-120	
n-Tetracosane (S)	%			76	41-130	
p-Terphenyl (S)	%			82	39-130	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

QC Batch: GCV/3904 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60108495001

METHOD BLANK: 897372 Matrix: Solid
Associated Lab Samples: 60108495001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/26/11 18:46	
4-Bromofluorobenzene (S)	%	95	68-134	10/26/11 18:46	

LABORATORY CONTROL SAMPLE: 897373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	47.6	95	77-122	CU
4-Bromofluorobenzene (S)	%			93	68-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 897374 897375

Parameter	Units	60108495001 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	83.6	83.6	73.6	74.9	88	90	51-130	2	27	
4-Bromofluorobenzene (S)	%						95	96	68-134			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

QC Batch: MSV/41097 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60108495001, 60108495002

METHOD BLANK: 896181 Matrix: Solid
Associated Lab Samples: 60108495001, 60108495002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/22/11 10:42	
Ethylbenzene	ug/kg	ND	5.0	10/22/11 10:42	
Toluene	ug/kg	ND	5.0	10/22/11 10:42	
Xylene (Total)	ug/kg	ND	5.0	10/22/11 10:42	
1,2-Dichloroethane-d4 (S)	%	103	77-131	10/22/11 10:42	
4-Bromofluorobenzene (S)	%	99	75-131	10/22/11 10:42	
Dibromofluoromethane (S)	%	100	68-129	10/22/11 10:42	
Toluene-d8 (S)	%	99	81-121	10/22/11 10:42	

LABORATORY CONTROL SAMPLE: 896182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	96.9	97	84-119	
Ethylbenzene	ug/kg	100	100	100	80-120	
Toluene	ug/kg	100	94.1	94	83-117	
Xylene (Total)	ug/kg	300	299	100	80-120	
1,2-Dichloroethane-d4 (S)	%			96	77-131	
4-Bromofluorobenzene (S)	%			97	75-131	
Dibromofluoromethane (S)	%			101	68-129	
Toluene-d8 (S)	%			97	81-121	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

QC Batch: PMST/6618
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60108495001

METHOD BLANK: 896831
Matrix: Solid
Associated Lab Samples: 60108495001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/24/11 00:00	

SAMPLE DUPLICATE: 896832

Parameter	Units	60108468006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.6	10.7	10	20	

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

BATCH QUALIFIERS

Batch: OEXT/30782

[1] A matrix spike/matrix spike duplicate is not available for this batch due to a preparation error.

Batch: MSV/41097

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

ANALYTE QUALIFIERS

CU The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108495

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60108495001	**S-075034-102011-CBB11(100-102)**	EPA 3546	OEXT/30782	EPA 8015B	GCSV/11400
60108495001	**S-075034-102011-CBB11(100-102)**	EPA 5035A/5030B	GCV/3904	EPA 8015B	GCV/3911
60108495001	**S-075034-102011-CBB11(100-102)**	EPA 8260	MSV/41097		
60108495002	**TRIP BLANK**	EPA 8260	MSV/41097		
60108495001	**S-075034-102011-CBB11(100-102)**	ASTM D2974-87	PMST/6618		

Pace Analytical™

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200 Albuquerque, NM 87110
Email To:	cmbrown@craworld.com
Phone:	(505)884-0672
Fax:	(505)884-4932
Requested Due Date/TAT:	~~standard~~ 3day

Section B Required Project Information:

Report To:	Cassie Brown
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	75034

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Koporc
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: NM

Section D Required Client Information

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	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	8260 BTEX	8015 DRO	8015 GRO	HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60108445
1	S-075034-102011-CB-B-11(100102)	SL	G	—	—	10/20/11	0950			X						X			X	X	X			2(WG4n) 2(VG4n) [illegible] 001
2	trip blank								1				X						X					1(VG9U) 1(VG9H) 002
3	temp blank								1	X														
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

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)
Return HPC directly to Frontenac Lab:	[signature] Brown / CRA	10-20-11	1320	[signature] / Pace	10/21/11	900	1.4	Y	Y	Y
808 West Mckay										
Frontenac, KS 66763										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10-20-11

*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

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA NM Project # 60108495

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ____

Tracking #: 8768 3969 9560 Pace Shipping Label Used? ☐ Yes ☒ No

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

Optional
Proj. Due Date: H/OL 10/26
Proj. Name:

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

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.4
Temperature should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: JNS 10/20/11 1030

Chain of Custody present:	☒Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☒Yes	☐No	☐N/A	2.
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. 3 Day TAT
Sufficient volume:	☒Yes	☐No	☐N/A	8.
Correct containers used:	☒Yes	☐No	☐N/A	9.
-Pace containers used:	☒Yes	☐No	☐N/A	
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.
Sample labels match COC:	☒Yes	☐No	☐N/A	13.
-Includes date/time/ID/analyses Matrix: Soils				
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes	☐No		Initial when completed: N/A Lot # of added preservative:
Trip Blank present: 050811-3	☒Yes	☐No	☐N/A	15. 1 soil + 1 water trip
Pace Trip Blank lot # (if purchased): 050811-3				
Headspace in VOA vials (>6mm):	☐Yes	☐No	☒N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☒No	☐N/A	17. List State: San Juan, NM

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

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: ____

Project Manager Review: [signature] Date: 10/21/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.05, 19February2010

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

September 30, 2011

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Colleen Koporc for
Dianna Meier
dianna.meier@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa

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

CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60107029001	S-075034-92411-CB-MW-5(107-08)	Solid	09/24/11 13:10	09/27/11 09:15
60107029002	TRIP BLANK	Solid	09/26/11 06:30	09/27/11 09:15

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

SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60107029001	**S-075034-92411-CB-MW-5(107-08)**	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 5035A/8260	RAB	7
		ASTM D2974-87	DWC	1
60107029002	**TRIP BLANK**	EPA 5035A/8260	RAB	7

Pace Analytical®
www.pacelabs.com

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: September 30, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

Method Blank:
All analytes were below the report limit in the method blank 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.

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

Method: **EPA 8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: September 30, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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 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/3864

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

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

Additional Comments:

Pace Analytical®
www.pacelabs.com

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

Method: **EPA 5035A/8260**
Description: 8260 MSV GRO and Oxygenates
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: September 30, 2011

General Information:
2 samples were analyzed for EPA 5035A/8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/40488

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

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

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: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

Sample: S-075034-92411-CB-MW-5(107-08) **Lab ID: 60107029001** Collected: 09/24/11 13:10 Received: 09/27/11 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

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	1	09/29/11 00:00	09/30/11 11:45		
n-Tetracosane (S)	66	%	41-130	1	09/29/11 00:00	09/30/11 11:45	646-31-1	
p-Terphenyl (S)	64	%	39-130	1	09/29/11 00:00	09/30/11 11:45	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.6	1	09/30/11 00:00	09/30/11 11:36		
4-Bromofluorobenzene (S)	82	%	68-134	1	09/30/11 00:00	09/30/11 11:36	460-00-4	
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	ND	ug/kg	5.4	1		09/29/11 17:38	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1		09/29/11 17:38	100-41-4	
Toluene	ND	ug/kg	5.4	1		09/29/11 17:38	108-88-3	
Xylene (Total)	ND	ug/kg	10.8	1		09/29/11 17:38	1330-20-7	
Toluene-d8 (S)	100	%	81-121	1		09/29/11 17:38	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-131	1		09/29/11 17:38	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	77-131	1		09/29/11 17:38	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**2.1**	%	0.50	1		09/30/11 00:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

Sample: TRIP BLANK **Lab ID: 60107029002** Collected: 09/26/11 06:30 Received: 09/27/11 09:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV GRO and Oxygenates	Analytical Method: EPA 5035A/8260							
Benzene	ND	ug/kg	5.0	1		09/29/11 17:08	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1		09/29/11 17:08	100-41-4	
Toluene	ND	ug/kg	5.0	1		09/29/11 17:08	108-88-3	
Xylene (Total)	ND	ug/kg	10.0	1		09/29/11 17:08	1330-20-7	
Toluene-d8 (S)	101	%	81-121	1		09/29/11 17:08	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-131	1		09/29/11 17:08	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	77-131	1		09/29/11 17:08	17060-07-0	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

QC Batch: OEXT/30429 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60107029001

METHOD BLANK: 883587 Matrix: Solid
Associated Lab Samples: 60107029001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.9	09/30/11 11:00	
n-Tetracosane (S)	%	74	41-130	09/30/11 11:00	
p-Terphenyl (S)	%	69	39-130	09/30/11 11:00	

LABORATORY CONTROL SAMPLE: 883588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	81.3	74.4	92	57-120	
n-Tetracosane (S)	%			84	41-130	
p-Terphenyl (S)	%			77	39-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 883589 883590

Parameter	Units	60107029001 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	84.5	84.6	78.3	72.2	88	81	36-125	8	28	
n-Tetracosane (S)	%						83	73	41-130			
p-Terphenyl (S)	%						75	68	39-130			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

QC Batch: GCV/3860
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8015B
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60107029001

METHOD BLANK: 884012 Matrix: Solid
Associated Lab Samples: 60107029001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	09/30/11 11:14	
4-Bromofluorobenzene (S)	%	84	68-134	09/30/11 11:14	

LABORATORY CONTROL SAMPLE: 884013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	46.5	93	77-122	
4-Bromofluorobenzene (S)	%			87	68-134	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

QC Batch: MSV/40488 Analysis Method: EPA 5035A/8260
QC Batch Method: EPA 5035A/8260 Analysis Description: 8260 MSV GRO and Oxygenates
Associated Lab Samples: 60107029001, 60107029002

METHOD BLANK: 883614 Matrix: Solid
Associated Lab Samples: 60107029001, 60107029002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	09/29/11 16:23	
Ethylbenzene	ug/kg	ND	5.0	09/29/11 16:23	
Toluene	ug/kg	ND	5.0	09/29/11 16:23	
Xylene (Total)	ug/kg	ND	10.0	09/29/11 16:23	
1,2-Dichloroethane-d4 (S)	%	103	77-131	09/29/11 16:23	
4-Bromofluorobenzene (S)	%	97	75-131	09/29/11 16:23	
Toluene-d8 (S)	%	101	81-121	09/29/11 16:23	

LABORATORY CONTROL SAMPLE: 883615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	88.8	89	84-119	
Ethylbenzene	ug/kg	100	94.2	94	80-120	
Toluene	ug/kg	100	90.5	91	83-117	
Xylene (Total)	ug/kg	300	289	96	80-120	
1,2-Dichloroethane-d4 (S)	%			100	77-131	
4-Bromofluorobenzene (S)	%			106	75-131	
Toluene-d8 (S)	%			100	81-121	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

QC Batch: PMST/6556
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60107029001

METHOD BLANK: 884000
Matrix: Solid
Associated Lab Samples: 60107029001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	09/30/11 00:00	

SAMPLE DUPLICATE: 884001

Parameter	Units	60107029001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.1	1.8	16	20	

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

BATCH QUALIFIERS

Batch: MSV/40488

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

Batch: GCV/3864

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60107029

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60107029001	**S-075034-92411-CB-MW-5(107-08)**	EPA 3546	OEXT/30429	EPA 8015B	GCSV/11256
60107029001	**S-075034-92411-CB-MW-5(107-08)**	EPA 5035A/5030B	GCV/3860	EPA 8015B	GCV/3864
60107029001	**S-075034-92411-CB-MW-5(107-08)**	EPA 5035A/8260	MSV/40488		
60107029002	**TRIP BLANK**	EPA 5035A/8260	MSV/40488		
60107029001	**S-075034-92411-CB-MW-5(107-08)**	ASTM D2974-87	PMST/6556		

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:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	~~cmathews@craworld.com~~
Phone:	(505)884-0672 Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	~~Christine Mathews~~ Cassie Brown
Copy To:	Kelly Blanchard, Angela Bown
	cmbrown@craworld.com
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	075034

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Koporc
Pace Profile #:	

REGULATORY AGENCY

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

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	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	8260 BTEX	8015 DRO	8015 GRO	HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60107029
1	S-075034-92411-CB-MW-5(167-168.5)	SL	G	—	—	9.24.11	1310		5	X						X			X	X	X			2(VG9H?) 2(WGFU) 1(WG2U) 2(DG9B) 1(DG9N) 001
2	trip blank	WT				9.26.11	2030		1										X					1(VG9H) 002
3	temp blank	WT				9.26.11	2030		1															
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Return HPC directly to Frontenac Lab:	Cassie Brown / CRA	9.20.11	0700	[illegible signature]	9/27/11	915	3.1	Y	Y	Y
808 West Mckay										
Frontenac, KS 66763										
							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: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown DATE Signed (MM/DD/YY): 9.26.11

*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

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CPA NM Project # 60107029

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 8768 0337 5077 Pace Shipping Label Used? ☒ Yes ☐ No

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

Optional
Proj. Due Date: 10/7/11
Proj. Name:

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

Thermometer Used: ~~T-191~~ T-194 Type of Ice: ~~Wet~~ Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 3.1

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: DMS 9/29/11 1640

		Comments:
Chain of Custody present:	☒Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☒Yes ☐No ☐N/A	2.
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. Unpreserved vials not frozen w/in 48hr
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	9.
-Pace containers used:	☒Yes ☐No ☐N/A	
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.
Sample labels match COC:	☒Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: Soil		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed MAK Lot # of added preservative
Trip Blank present:	☒Yes ☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased): 080811-3		
Headspace in VOA vials (>6mm):	☐Yes ☐No ☒N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☒No ☐N/A	17. List State: NM San Juan

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

DKM

Project Manager Review: CMK & DKM 9/29/11 Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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

October 19, 2011

Cassie Brown
COP Conestoga-Rovers & Associa

RE: Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

Dear Cassie Brown:
Enclosed are the analytical results for sample(s) received by the laboratory on October 14, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Anna Custer

anna.custer@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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

CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60108069001	S07503A101211CBMW7(105-107.5)	Solid	10/12/11 12:00	10/14/11 08:55
60108069002	TRIP BLANK	Solid	10/12/11 00:00	10/14/11 08:55

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

SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60108069001	**S07503A101211CBMW7(105-107.5)**	EPA 8015B	SDR	3
		EPA 8015B	PRG	2
		EPA 8260	RAB	8
		ASTM D2974-87	DWC	1
60108069002	**TRIP BLANK**	EPA 8260	RAB	8

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 19, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

Method Blank:
All analytes were below the report limit in the method blank 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.

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

Method: **EPA 8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 19, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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 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/3890

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60107943001

R1: RPD value was outside control limits.

- MSD (Lab ID: 893637)
  - TPH-GRO

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 19, 2011

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/40976

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

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

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: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

Sample: S07503A101211CBMW7(10 5-107.5) **Lab ID: 60108069001** Collected: 10/12/11 12:00 Received: 10/14/11 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

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	10/17/11 00:00	10/18/11 19:05		
n-Tetracosane (S)	86	%	41-130	1	10/17/11 00:00	10/18/11 19:05	646-31-1	
p-Terphenyl (S)	86	%	39-130	1	10/17/11 00:00	10/18/11 19:05	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	20.3	1	10/18/11 00:00	10/18/11 15:36		
4-Bromofluorobenzene (S)	99	%	68-134	1	10/18/11 00:00	10/18/11 15:36	460-00-4	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.9	1		10/18/11 18:29	71-43-2	
Ethylbenzene	ND	ug/kg	5.9	1		10/18/11 18:29	100-41-4	
Toluene	ND	ug/kg	5.9	1		10/18/11 18:29	108-88-3	
Xylene (Total)	ND	ug/kg	5.9	1		10/18/11 18:29	1330-20-7	
Dibromofluoromethane (S)	98	%	68-129	1		10/18/11 18:29	1868-53-7	
Toluene-d8 (S)	101	%	81-121	1		10/18/11 18:29	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-131	1		10/18/11 18:29	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	77-131	1		10/18/11 18:29	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.4**	%	0.50	1		10/17/11 00:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

Sample: TRIP BLANK **Lab ID: 60108069002** Collected: 10/12/11 00:00 Received: 10/14/11 08:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.0	1		10/18/11 17:59	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1		10/18/11 17:59	100-41-4	
Toluene	ND	ug/kg	5.0	1		10/18/11 17:59	108-88-3	
Xylene (Total)	ND	ug/kg	5.0	1		10/18/11 17:59	1330-20-7	
Dibromofluoromethane (S)	103	%	68-129	1		10/18/11 17:59	1868-53-7	
Toluene-d8 (S)	102	%	81-121	1		10/18/11 17:59	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-131	1		10/18/11 17:59	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	77-131	1		10/18/11 17:59	17060-07-0	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

QC Batch: OEXT/30698 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60108069001

METHOD BLANK: 892568 Matrix: Solid
Associated Lab Samples: 60108069001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.8	10/19/11 11:15	
n-Tetracosane (S)	%	91	41-130	10/19/11 11:15	
p-Terphenyl (S)	%	86	39-130	10/19/11 11:15	

LABORATORY CONTROL SAMPLE: 892569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	82.2	56.2	68	57-120	
n-Tetracosane (S)	%			84	41-130	
p-Terphenyl (S)	%			81	39-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 892570 892571

Parameter	Units	60108069001 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	92.3	92.5	68.1	68.6	70	71	36-125	1	28	
n-Tetracosane (S)	%						89	86	41-130			
p-Terphenyl (S)	%						87	84	39-130			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

QC Batch: GCV/3890 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60108069001

METHOD BLANK: 893219 Matrix: Solid
Associated Lab Samples: 60108069001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/18/11 11:03	
4-Bromofluorobenzene (S)	%	100	68-134	10/18/11 11:03	

LABORATORY CONTROL SAMPLE: 893220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	54.4	109	77-122	
4-Bromofluorobenzene (S)	%			100	68-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 893636 893637

Parameter	Units	60107943001 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	59.7	59.7	69.7	48.5	117	81	51-130	36	27	R1
4-Bromofluorobenzene (S)	%						99	99	68-134			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

QC Batch: MSV/40976 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60108069001, 60108069002

METHOD BLANK: 893434 Matrix: Solid
Associated Lab Samples: 60108069001, 60108069002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/18/11 13:09	
Ethylbenzene	ug/kg	ND	5.0	10/18/11 13:09	
Toluene	ug/kg	ND	5.0	10/18/11 13:09	
Xylene (Total)	ug/kg	ND	5.0	10/18/11 13:09	
1,2-Dichloroethane-d4 (S)	%	110	77-131	10/18/11 13:09	
4-Bromofluorobenzene (S)	%	102	75-131	10/18/11 13:09	
Dibromofluoromethane (S)	%	96	68-129	10/18/11 13:09	
Toluene-d8 (S)	%	100	81-121	10/18/11 13:09	

LABORATORY CONTROL SAMPLE: 893435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	103	103	84-119	
Ethylbenzene	ug/kg	100	99.6	100	80-120	
Toluene	ug/kg	100	96.0	96	83-117	
Xylene (Total)	ug/kg	300	296	99	80-120	
1,2-Dichloroethane-d4 (S)	%			110	77-131	
4-Bromofluorobenzene (S)	%			102	75-131	
Dibromofluoromethane (S)	%			98	68-129	
Toluene-d8 (S)	%			99	81-121	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

QC Batch: PMST/6597
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60108069001

METHOD BLANK: 892408
Matrix: Solid
Associated Lab Samples: 60108069001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/17/11 00:00	

SAMPLE DUPLICATE: 892409

Parameter	Units	60108041001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.5	8.6	10	20	

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

BATCH QUALIFIERS

Batch: MSV/40976

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

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60108069

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60108069001	**S07503A101211CBMW7(105-107.5)**	EPA 3546	OEXT/30698	EPA 8015B	GCSV/11366
60108069001	**S07503A101211CBMW7(105-107.5)**	EPA 5035A/5030B	GCV/3890	EPA 8015B	GCV/3893
60108069001	**S07503A101211CBMW7(105-107.5)**	EPA 8260	MSV/40976		
60108069002	**TRIP BLANK**	EPA 8260	MSV/40976		
60108069001	**S07503A101211CBMW7(105-107.5)**	ASTM D2974-87	PMST/6597		

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical™

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Cassie Brown	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albuquerque, NM 87110			Address:	
Email To:	cmbrown@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 29-7 Unit 37	Pace Project Manager:	Colleen Koporc
Requested Due Date/TAT:	~~Standard~~ 3day	Project Number:	75034	Pace Profile #:	15514

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER NMOCD

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX	8015 DRO	8015 GRO	HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	S-07503A-101211-CB-MW-7(105-107.5)	SO	G			10/12/11	1200		3	X		2				X		1	X	X	X	2		60108069
2	trip blank	WT				10/13/11	0600		1									1	X					
3	temp blank	WT				10/13/11	0600		1															
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Return HPC directly to Frontenac Lab:	Cassie Brown/CRA	10/13/11	0830	E Brockett	10/14	0855	2.6	Y	Y	Y
808 West Mckay										
Frontenac, KS 66763										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown DATE Signed (MM/DD/YY): 10/13/11

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

*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

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA Project # 66108069

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ______

Tracking #: 876803375714 Pace Shipping Label Used? ☑ Yes ☐ No

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

Optional
Proj. Due Date: 10/19
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ______

Thermometer Used: T-191 / T-194 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2.6
Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 10/14/11

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
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. Kits
Rush Turn Around Time requested:	☑ Yes ☐ No ☐ N/A (10/14)	7. 3-Day
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
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.
Sample labels match COC:	☑ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: SL		
All containers needing preservation have been checked.	☐ Yes ☐ No ☑ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☑ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐ Yes ☑ No	Initial when completed ______ Lot # of added preservative ______
Trip Blank present:	☑ Yes ☐ No ☐ N/A	15.
Pace Trip Blank lot # (if purchased): 080811-3		
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☑ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☑ No ☐ N/A	17. List State:

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

Person Contacted: ______ Date/Time: ______

Comments/ Resolution: ______

Project Manager Review: [signature] Date: 10/14/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.05, 19February2010

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

October 25, 2011

Cassie Brown
COP Conestoga-Rovers & Associa

RE: Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

Dear Cassie Brown:
Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Anna Custer

anna.custer@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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

CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60108312001	GW-075034-101811-CE-MW-5	Water	10/18/11 12:00	10/19/11 09:00
60108312002	GW-075034-101811-CE-MW-6	Water	10/18/11 12:40	10/19/11 09:00
60108312003	GW-075034-101811-CE-MW-7	Water	10/18/11 13:40	10/19/11 09:00
60108312004	TRIP BLANK	Water	10/18/11 00:00	10/19/11 09:00

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

SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60108312001	**GW-075034-101811-CE-MW-5**	EPA 8015B	SDR	3
		EPA 5030B/8015B	PRG	3
		EPA 8260	JDM	9
60108312002	**GW-075034-101811-CE-MW-6**	EPA 8015B	SDR	3
		EPA 5030B/8015B	PRG	3
		EPA 8260	JDM	9
60108312003	**GW-075034-101811-CE-MW-7**	EPA 8015B	SDR	3
		EPA 5030B/8015B	PRG	3
		EPA 8260	JDM	9
60108312004	**TRIP BLANK**	EPA 8260	JDM	9

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 25, 2011

General Information:
3 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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 3510C 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.

Method Blank:
All analytes were below the report limit in the method blank 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: GCSV/11385

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

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 25, 2011

General Information:
3 samples were analyzed for EPA 5030B/8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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/3899

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

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

Method: EPA 8260
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 25, 2011

General Information:
4 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/41043

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

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

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: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

Sample: GW-075034-101811-CE-MW-5 **Lab ID: 60108312001** Collected: 10/18/11 12:00 Received: 10/19/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C							
TPH-DRO	ND	mg/L	0.50	1	10/20/11 00:00	10/21/11 18:18		
p-Terphenyl (S)	72	%	40-118	1	10/20/11 00:00	10/21/11 18:18	92-94-4	
n-Tetracosane (S)	80	%	36-120	1	10/20/11 00:00	10/21/11 18:18	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
TPH-GRO	ND	mg/L	0.50	1		10/24/11 16:35		
4-Bromofluorobenzene (S)	93	%	63-139	1		10/24/11 16:35	460-00-4	
Preservation pH	**1.0**			1		10/24/11 16:35		
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/21/11 02:30	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/21/11 02:30	100-41-4	
Toluene	ND	ug/L	1.0	1		10/21/11 02:30	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/21/11 02:30	1330-20-7	
Dibromofluoromethane (S)	102	%	86-112	1		10/21/11 02:30	1868-53-7	
Toluene-d8 (S)	102	%	90-110	1		10/21/11 02:30	2037-26-5	
4-Bromofluorobenzene (S)	98	%	87-113	1		10/21/11 02:30	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	82-119	1		10/21/11 02:30	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/21/11 02:30		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

Sample: GW-075034-101811-CE-MW-6 **Lab ID: 60108312002** Collected: 10/18/11 12:40 Received: 10/19/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C							
TPH-DRO	ND	mg/L	0.50	1	10/20/11 00:00	10/21/11 18:30		
p-Terphenyl (S)	76	%	40-118	1	10/20/11 00:00	10/21/11 18:30	92-94-4	
n-Tetracosane (S)	84	%	36-120	1	10/20/11 00:00	10/21/11 18:30	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
TPH-GRO	ND	mg/L	0.50	1		10/24/11 16:58		
4-Bromofluorobenzene (S)	93	%	63-139	1		10/24/11 16:58	460-00-4	
Preservation pH	**1.0**			1		10/24/11 16:58		
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**33.3**	ug/L	1.0	1		10/21/11 02:45	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/21/11 02:45	100-41-4	
Toluene	ND	ug/L	1.0	1		10/21/11 02:45	108-88-3	
Xylene (Total)	**12.4**	ug/L	3.0	1		10/21/11 02:45	1330-20-7	
Dibromofluoromethane (S)	104	%	86-112	1		10/21/11 02:45	1868-53-7	
Toluene-d8 (S)	99	%	90-110	1		10/21/11 02:45	2037-26-5	
4-Bromofluorobenzene (S)	98	%	87-113	1		10/21/11 02:45	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	82-119	1		10/21/11 02:45	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/21/11 02:45		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

Sample: GW-075034-101811-CE-MW-7 **Lab ID: 60108312003** Collected: 10/18/11 13:40 Received: 10/19/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C							
TPH-DRO	ND	mg/L	0.50	1	10/20/11 00:00	10/21/11 18:41		
p-Terphenyl (S)	74	%	40-118	1	10/20/11 00:00	10/21/11 18:41	92-94-4	
n-Tetracosane (S)	78	%	36-120	1	10/20/11 00:00	10/21/11 18:41	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
TPH-GRO	ND	mg/L	0.50	1		10/24/11 17:20		
4-Bromofluorobenzene (S)	92	%	63-139	1		10/24/11 17:20	460-00-4	
Preservation pH	**1.0**			1		10/24/11 17:20		
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/21/11 03:00	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/21/11 03:00	100-41-4	
Toluene	ND	ug/L	1.0	1		10/21/11 03:00	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/21/11 03:00	1330-20-7	
Dibromofluoromethane (S)	102	%	86-112	1		10/21/11 03:00	1868-53-7	
Toluene-d8 (S)	102	%	90-110	1		10/21/11 03:00	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-113	1		10/21/11 03:00	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	82-119	1		10/21/11 03:00	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/21/11 03:00		

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

Sample: TRIP BLANK **Lab ID: 60108312004** Collected: 10/18/11 00:00 Received: 10/19/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/21/11 03:16	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/21/11 03:16	100-41-4	
Toluene	ND	ug/L	1.0	1		10/21/11 03:16	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/21/11 03:16	1330-20-7	
Dibromofluoromethane (S)	100	%	86-112	1		10/21/11 03:16	1868-53-7	
Toluene-d8 (S)	99	%	90-110	1		10/21/11 03:16	2037-26-5	
4-Bromofluorobenzene (S)	96	%	87-113	1		10/21/11 03:16	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	82-119	1		10/21/11 03:16	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/21/11 03:16		

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

QC Batch: OEXT/30758 Analysis Method: EPA 8015B
QC Batch Method: EPA 3510C Analysis Description: EPA 8015B
Associated Lab Samples: 60108312001, 60108312002, 60108312003

METHOD BLANK: 894474 Matrix: Water
Associated Lab Samples: 60108312001, 60108312002, 60108312003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	10/21/11 17:56	
n-Tetracosane (S)	%	72	36-120	10/21/11 17:56	
p-Terphenyl (S)	%	67	40-118	10/21/11 17:56	

LABORATORY CONTROL SAMPLE: 894475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	1.8	71	48-119	
n-Tetracosane (S)	%			79	36-120	
p-Terphenyl (S)	%			72	40-118	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

QC Batch: GCV/3899 Analysis Method: EPA 5030B/8015B
QC Batch Method: EPA 5030B/8015B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60108312001, 60108312002, 60108312003

METHOD BLANK: 895535 Matrix: Water
Associated Lab Samples: 60108312001, 60108312002, 60108312003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/L	ND	0.50	10/24/11 12:36	
4-Bromofluorobenzene (S)	%	90	63-139	10/24/11 12:36	

LABORATORY CONTROL SAMPLE: 895536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/L	1	0.93	93	74-127	
4-Bromofluorobenzene (S)	%			93	63-139	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

QC Batch: MSV/41043 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60108312001, 60108312002, 60108312003, 60108312004

METHOD BLANK: 894834 Matrix: Water
Associated Lab Samples: 60108312001, 60108312002, 60108312003, 60108312004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/20/11 22:39	
Ethylbenzene	ug/L	ND	1.0	10/20/11 22:39	
Toluene	ug/L	ND	1.0	10/20/11 22:39	
Xylene (Total)	ug/L	ND	3.0	10/20/11 22:39	
1,2-Dichloroethane-d4 (S)	%	100	82-119	10/20/11 22:39	
4-Bromofluorobenzene (S)	%	99	87-113	10/20/11 22:39	
Dibromofluoromethane (S)	%	98	86-112	10/20/11 22:39	
Toluene-d8 (S)	%	98	90-110	10/20/11 22:39	

LABORATORY CONTROL SAMPLE: 894835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.8	99	82-117	
Ethylbenzene	ug/L	20	21.0	105	79-121	
Toluene	ug/L	20	20.5	103	80-120	
Xylene (Total)	ug/L	60	60.2	100	79-120	
1,2-Dichloroethane-d4 (S)	%			100	82-119	
4-Bromofluorobenzene (S)	%			96	87-113	
Dibromofluoromethane (S)	%			99	86-112	
Toluene-d8 (S)	%			97	90-110	

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

BATCH QUALIFIERS

Batch: OEXT/30758

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

Batch: MSV/41043

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

Batch: GCV/3899

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108312

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60108312001	**GW-075034-101811-CE-MW-5**	EPA 3510C	OEXT/30758	EPA 8015B	GCSV/11385
60108312002	**GW-075034-101811-CE-MW-6**	EPA 3510C	OEXT/30758	EPA 8015B	GCSV/11385
60108312003	**GW-075034-101811-CE-MW-7**	EPA 3510C	OEXT/30758	EPA 8015B	GCSV/11385
60108312001	**GW-075034-101811-CE-MW-5**	EPA 5030B/8015B	GCV/3899		
60108312002	**GW-075034-101811-CE-MW-6**	EPA 5030B/8015B	GCV/3899		
60108312003	**GW-075034-101811-CE-MW-7**	EPA 5030B/8015B	GCV/3899		
60108312001	**GW-075034-101811-CE-MW-5**	EPA 8260	MSV/41043		
60108312002	**GW-075034-101811-CE-MW-6**	EPA 8260	MSV/41043		
60108312003	**GW-075034-101811-CE-MW-7**	EPA 8260	MSV/41043		
60108312004	**TRIP BLANK**	EPA 8260	MSV/41043		

Pace Analytical™

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:	Section C Invoice Information:
Company: CRA		Report To: Cassie Brown	Attention: ENFOS
Address: 6121 Indian School Rd NE, Ste 200		Copy To: Kelly Blanchard, Angela Bown	Company Name:
Albuquerque, NM 87110			Address:
Email To: cmbrown@craworld.com		Purchase Order No.:	Pace Quote Reference:
Phone: (505)884-0672	Fax: (505)884-4932	Project Name: San Juan 29-7 Unit 37	Pace Project Manager: Colleen Koporc
Requested Due Date/TAT: ~~standard~~ 3 Day		Project Number: 75034	Pace Profile #:

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [ ] UST
- [ ] RCRA
- [x] OTHER NMOCD

Site Location STATE: NM

Section D Required Client Information

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

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

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	8260 BTEX	8015 DRO	8015 GRO	HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 6208312
1	GW-075034-101811-CE-MW-5	WT	G			10-18-11	1200		8	2			6						X	X	X			6(DG9H) 2(AGIN) 01
2	GW-075034-101811-CE-MW-6	WT	G			10-18-11	1240		8	2			6						X	X	X			02
3	GW-075034-101811-CE-MW-7	WT	G			10-18-11	1340		8	2			6						X	X	X			03
4	Trip blank	WT	—	—	—	—	—		3				3						X					3(DG9H) 04
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Return HPC directly to Frontenac Lab:	ChrEvn / CRA	10-8-11	1700	[signature] / Pace	10/19/11	900	2.4	Y	Y	Y
808 West Mckay										
Frontenac, KS 66763										
							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: Chris Evans

SIGNATURE of SAMPLER: ChrEvn

DATE Signed (MM/DD/YY): 10-18-11

*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

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA NM Project # 6008312

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 8968 0337 5725 Pace Shipping Label Used? ☒ Yes ☐ No

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

Optional
Proj. Due Date: 10/24/11
Proj. Name:

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

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2.4
Temperature should be above freezing to 6°C

Date and Initials of person examining contents: JMS 10/19/11 1000

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
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. 3 day
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
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.
Sample labels match COC:	☑ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: water		
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑ Yes ☐ No	Initial when completed MA Lot # of added preservative
Trip Blank present:	☑ Yes ☐ No ☐ N/A	15.
Pace Trip Blank lot # (if purchased): 0905113		
Headspace in VOA vials (>6mm):	☐ Yes ☑ No ☐ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	17. List State:

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 10/19/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.05, 19February2010

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

November 02, 2011

Cassie Brown
COP Conestoga-Rovers & Associa

RE: Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

Dear Cassie Brown:
Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Anna Custer

anna.custer@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Christine Matthews, CRA

Pace Analytical®
www.pacelabs.com

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

CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60108486001	GW-075034-101911-CE-MW-8	Water	10/19/11 14:30	10/20/11 08:50

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

SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60108486001	**GW-075034-101911-CE-MW-8**	EPA 8015B	SDR	3
		EPA 5030B/8015B	PRG	3
		EPA 8260	JDM, PRG	9

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

Method: EPA 8015B
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 02, 2011

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

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 3510C 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.

Method Blank:
All analytes were below the report limit in the method blank 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: GCSV/11424

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

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 02, 2011

General Information:
1 sample was analyzed for EPA 5030B/8015B. All samples were received in acceptable condition with any exceptions noted below.

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.

QC Batch: GCV/3922

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- GW-075034-101911-CE-MW-8 (Lab ID: 60108486001)
  - TPH-GRO

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 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/3922

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

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

Additional Comments:

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 02, 2011

Analyte Comments:

QC Batch: GCV/3922

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.
- GW-075034-101911-CE-MW-8 (Lab ID: 60108486001)
  - 4-Bromofluorobenzene (S)

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 02, 2011

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

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.

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 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: MSV/41220

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

QC Batch: MSV/41272

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

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

Additional Comments:

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

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

Sample: GW-075034-101911-CE-MW-8 **Lab ID: 60108486001** Collected: 10/19/11 14:30 Received: 10/20/11 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C							
TPH-DRO	ND	mg/L	0.50	1	10/24/11 00:00	10/28/11 09:03		
p-Terphenyl (S)	71	%	40-118	1	10/24/11 00:00	10/28/11 09:03	92-94-4	
n-Tetracosane (S)	70	%	36-120	1	10/24/11 00:00	10/28/11 09:03	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
TPH-GRO	**7.1**	mg/L	2.5	5		10/31/11 14:00		CH
4-Bromofluorobenzene (S)	86	%	63-139	5		10/31/11 14:00	460-00-4	P2
Preservation pH	**1.0**			5		10/31/11 14:00		
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**150**	ug/L	5.0	5		10/28/11 13:21	71-43-2	
Ethylbenzene	**70.2**	ug/L	5.0	5		10/28/11 13:21	100-41-4	
Toluene	**1240**	ug/L	20.0	20		10/31/11 10:40	108-88-3	
Xylene (Total)	**1430**	ug/L	15.0	5		10/28/11 13:21	1330-20-7	
Dibromofluoromethane (S)	99	%	86-112	5		10/28/11 13:21	1868-53-7	
Toluene-d8 (S)	100	%	90-110	5		10/28/11 13:21	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	5		10/28/11 13:21	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	82-119	5		10/28/11 13:21	17060-07-0	
Preservation pH	**1.0**		1.0	5		10/28/11 13:21		

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

QC Batch: OEXT/30795 Analysis Method: EPA 8015B
QC Batch Method: EPA 3510C Analysis Description: EPA 8015B
Associated Lab Samples: 60108486001

METHOD BLANK: 896809 Matrix: Water
Associated Lab Samples: 60108486001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	10/28/11 08:41	
n-Tetracosane (S)	%	85	36-120	10/28/11 08:41	
p-Terphenyl (S)	%	78	40-118	10/28/11 08:41	

LABORATORY CONTROL SAMPLE: 896810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	2.1	83	48-119	
n-Tetracosane (S)	%			79	36-120	
p-Terphenyl (S)	%			76	40-118	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

QC Batch: GCV/3922
QC Batch Method: EPA 5030B/8015B
Analysis Method: EPA 5030B/8015B
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60108486001

METHOD BLANK: 902705
Matrix: Water
Associated Lab Samples: 60108486001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/L	ND	0.50	10/31/11 13:25	
4-Bromofluorobenzene (S)	%	87	63-139	10/31/11 13:25	

LABORATORY CONTROL SAMPLE: 902706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/L	1	0.88	88	74-127	
4-Bromofluorobenzene (S)	%			87	63-139	

Pace Analytical
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

QC Batch: MSV/41220 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60108486001

METHOD BLANK: 900421 Matrix: Water
Associated Lab Samples: 60108486001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/28/11 10:50	
Ethylbenzene	ug/L	ND	1.0	10/28/11 10:50	
Xylene (Total)	ug/L	ND	3.0	10/28/11 10:50	
1,2-Dichloroethane-d4 (S)	%	102	82-119	10/28/11 10:50	
4-Bromofluorobenzene (S)	%	100	87-113	10/28/11 10:50	
Dibromofluoromethane (S)	%	101	86-112	10/28/11 10:50	
Toluene-d8 (S)	%	99	90-110	10/28/11 10:50	

LABORATORY CONTROL SAMPLE: 900422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.9	100	82-117	
Ethylbenzene	ug/L	20	21.2	106	79-121	
Xylene (Total)	ug/L	60	62.1	104	79-120	
1,2-Dichloroethane-d4 (S)	%			100	82-119	
4-Bromofluorobenzene (S)	%			101	87-113	
Dibromofluoromethane (S)	%			100	86-112	
Toluene-d8 (S)	%			100	90-110	

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

QC Batch: MSV/41272
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60108486001

METHOD BLANK: 902105
Matrix: Water
Associated Lab Samples: 60108486001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	10/31/11 10:25	
1,2-Dichloroethane-d4 (S)	%	102	82-119	10/31/11 10:25	
4-Bromofluorobenzene (S)	%	97	87-113	10/31/11 10:25	
Dibromofluoromethane (S)	%	103	86-112	10/31/11 10:25	
Toluene-d8 (S)	%	97	90-110	10/31/11 10:25	

LABORATORY CONTROL SAMPLE: 902106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	21.5	107	80-120	
1,2-Dichloroethane-d4 (S)	%			97	82-119	
4-Bromofluorobenzene (S)	%			93	87-113	
Dibromofluoromethane (S)	%			98	86-112	
Toluene-d8 (S)	%			103	90-110	

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

QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
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.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
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.

BATCH QUALIFIERS

Batch: OEXT/30795
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/41220
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/41272
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: GCV/3922
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108486

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60108486001	**GW-075034-101911-CE-MW-8**	EPA 3510C	OEXT/30795	EPA 8015B	GCSV/11424
60108486001	**GW-075034-101911-CE-MW-8**	EPA 5030B/8015B	GCV/3922		
60108486001	**GW-075034-101911-CE-MW-8**	EPA 8260	MSV/41220		
60108486001	**GW-075034-101911-CE-MW-8**	EPA 8260	MSV/41272		

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: | of

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albuquerque, NM 87110
Email To:	cmbrown@craworld.com
Phone: (505)884-0672	Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Cassie Brown
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	75034

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Koporc
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER NM OCD

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	8260 BTEX	8015 DRO	8015 GRO	HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-075034-10911-CE-MW-8	WT	G	—	—	10-9-11	1430		8	2			6					X	X	X			60108486 (60694H) 001
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Return HPC directly to Frontenac Lab:	Chris Evans / CRA	10-19-11	1500	[signature] / Pace	10/20/11	850	1.3	Y	Y	Y
808 West Mckay										
Frontenac, KS 66763										

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Chris Evans			
SIGNATURE of SAMPLER:	Chris Evans	DATE Signed (MM/DD/YY):	10-19-11	

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

*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

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: COP CRA NM   Project # 60108486

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace [ ] Other ______

Tracking #: 8768 3969 9548   Pace Shipping Label Used? [ ] Yes [X] No

Custody Seal on Cooler/Box Present: [X] Yes [ ] No   Seals intact: [X] Yes [ ] No

Optional	
Proj. Due Date:	11/01
Proj. Name:	

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] Foam [ ] None [ ] Other ______

Thermometer Used: (T-191) / T-194   Type of Ice: (Wet) Blue None   [ ] Samples on ice, cooling process has begun

Cooler Temperature: 1.3
Temperature should be above freezing to 6°C

Date and Initials of person examining contents: DWJ 10/20/11 1730

Comments:

Chain of Custody present:	[X] Yes	[ ] No	[ ] N/A	1.
Chain of Custody filled out:	[X] Yes	[ ] No	[ ] N/A	2.
Chain of Custody relinquished:	[X] Yes	[ ] No	[ ] N/A	3.
Sampler name & signature on COC:	[X] Yes	[ ] No	[ ] N/A	4.
Samples arrived within holding time:	[X] Yes	[ ] No	[ ] N/A	5.
Short Hold Time analyses (<72hr):	[ ] Yes	[X] No	[ ] N/A	6.
Rush Turn Around Time requested:	[ ] Yes	[X] No	[ ] N/A	7.
Sufficient volume:	[X] Yes	[ ] No	[ ] N/A	8.
Correct containers used:	[X] Yes	[ ] No	[ ] N/A	9.
-Pace containers used:	[X] Yes	[ ] No	[ ] N/A	
Containers intact:	[X] Yes	[ ] No	[ ] N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	[ ] Yes	[X] No	[X] N/A	11.
Filtered volume received for dissolved tests	[ ] Yes	[ ] No	[X] N/A	12.
Sample labels match COC:	[X] Yes	[ ] No	[ ] N/A	13.
-Includes date/time/ID/analyses Matrix: water/soil				
All containers needing preservation have been checked.	[ ] Yes	[ ] No	[X] N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ] Yes	[ ] No	[X] N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	[X] Yes	[ ] No		Initial when completed N/A; Lot # of added preservative
Trip Blank present:	[X] Yes	[ ] No	[ ] N/A	15.
Pace Trip Blank lot # (if purchased): 080811-3				~~soil trips~~ 10/20
Headspace in VOA vials (>6mm):	[ ] Yes	[ ] No	[X] N/A	16.
Project sampled in USDA Regulated Area:	[ ] Yes	[ ] No	[X] N/A	17. List State:

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

Person Contacted: ______   Date/Time: ______

Comments/ Resolution: ______

Project Manager Review: [signature]   Date: 10/21/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.05, 19February2010

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

October 25, 2011

Cassie Brown
COP Conestoga-Rovers & Associa

RE: Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Dear Cassie Brown:
Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Anna Custer

anna.custer@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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

CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60108657001	GW-075034-101811-CE-MW-1	Water	10/18/11 14:00	10/19/11 10:45
60108657002	GW-075034-101811-CE-MW-2	Water	10/18/11 13:10	10/19/11 10:45
60108657003	GW-075034-101811-CE-MW-3	Water	10/18/11 13:00	10/19/11 10:45
60108657004	GW-075034-101811-CE-MW-4	Water	10/18/11 13:25	10/19/11 10:45
60108657005	GW-075034-101811-CE-MW-5	Water	10/18/11 12:00	10/19/11 10:45
60108657006	GW-075034-101811-CE-MW-6	Water	10/18/11 12:40	10/19/11 10:45
60108657007	GW-075034-101811-CE-MW-7	Water	10/18/11 13:40	10/19/11 10:45

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

SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60108657001	GW-075034-101811-CE-MW-1	SM 9215B	MEB	1
60108657002	GW-075034-101811-CE-MW-2	SM 9215B	MEB	1
60108657003	GW-075034-101811-CE-MW-3	SM 9215B	MEB	1
60108657004	GW-075034-101811-CE-MW-4	SM 9215B	MEB	1
60108657005	GW-075034-101811-CE-MW-5	SM 9215B	MEB	1
60108657006	GW-075034-101811-CE-MW-6	SM 9215B	MEB	1
60108657007	GW-075034-101811-CE-MW-7	SM 9215B	MEB	1

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Method: **SM 9215B**
Description: MBIO HPC (Drinking Water)
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 25, 2011

General Information:
7 samples were analyzed for SM 9215B. All samples were received in acceptable condition with any exceptions noted below.

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

u3: Analysis initiated more than 6 hours but less than 24 hours after sample collection.
- GW-075034-101811-CE-MW-1 (Lab ID: 60108657001)
- GW-075034-101811-CE-MW-2 (Lab ID: 60108657002)
- GW-075034-101811-CE-MW-3 (Lab ID: 60108657003)
- GW-075034-101811-CE-MW-4 (Lab ID: 60108657004)
- GW-075034-101811-CE-MW-7 (Lab ID: 60108657007)

u6: Analysis initiated more than 24 hours after sample collection.
- GW-075034-101811-CE-MW-5 (Lab ID: 60108657005)
- GW-075034-101811-CE-MW-6 (Lab ID: 60108657006)

Sample Preparation:
The samples were prepared in accordance with SM 9215B with any exceptions noted below.

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

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: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Sample: GW-075034-101811-CE-MW-1 **Lab ID: 60108657001** Collected: 10/18/11 14:00 Received: 10/19/11 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**300000**	CFU/mL	1.0	1	10/19/11 12:55	10/21/11 12:00		u3

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Sample: GW-075034-101811-CE-MW-2 **Lab ID: 60108657002** Collected: 10/18/11 13:10 Received: 10/19/11 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**124000**	CFU/mL	1.0	1	10/19/11 12:55	10/21/11 12:00		u3

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Sample: GW-075034-101811-CE-MW-3 **Lab ID: 60108657003** Collected: 10/18/11 13:00 Received: 10/19/11 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**230000**	CFU/mL	1.0	1	10/19/11 12:55	10/21/11 12:00		u3

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Sample: GW-075034-101811-CE-MW-4 **Lab ID: 60108657004** Collected: 10/18/11 13:25 Received: 10/19/11 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**90000**	CFU/mL	1.0	1	10/19/11 12:55	10/21/11 12:00		u3

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Sample: GW-075034-101811-CE-MW-5 **Lab ID: 60108657005** Collected: 10/18/11 12:00 Received: 10/19/11 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**970000**	CFU/mL	1.0	1	10/19/11 12:55	10/21/11 12:00		u6

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Sample: GW-075034-101811-CE-MW-6 **Lab ID: 60108657006** Collected: 10/18/11 12:40 Received: 10/19/11 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**720000**	CFU/mL	1.0	1	10/19/11 12:55	10/21/11 12:00		u6

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Sample: GW-075034-101811-CE-MW-7 **Lab ID: 60108657007** Collected: 10/18/11 13:40 Received: 10/19/11 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**2000000**	CFU/mL	1.0	1	10/19/11 12:55	10/21/11 12:00		u3

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

QC Batch: MBIO/8655 Analysis Method: SM 9215B
QC Batch Method: SM 9215B Analysis Description: 9215B Heterotrophic Plate Count
Associated Lab Samples: 60108657001, 60108657002, 60108657003, 60108657004, 60108657005, 60108657006, 60108657007

METHOD BLANK: 897497 Matrix: Solid
Associated Lab Samples: 60108657001, 60108657002, 60108657003, 60108657004, 60108657005, 60108657006, 60108657007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Heterotrophic Plate Count	CFU/mL	<1	1.0	10/21/11 12:00	

SAMPLE DUPLICATE: 897498

Parameter	Units	60108657001 Result	Dup Result	RPD	Max RPD	Qualifiers
Heterotrophic Plate Count	CFU/mL	300000	270000			

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

ANALYTE QUALIFIERS

u3	Analysis initiated more than 6 hours but less than 24 hours after sample collection.
u6	Analysis initiated more than 24 hours after sample collection.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37 (075034)
Pace Project No.: 60108657

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60108657001	GW-075034-101811-CE-MW-1	SM 9215B	MBIO/8655	SM 9215B	MBIO/8656
60108657002	GW-075034-101811-CE-MW-2	SM 9215B	MBIO/8655	SM 9215B	MBIO/8656
60108657003	GW-075034-101811-CE-MW-3	SM 9215B	MBIO/8655	SM 9215B	MBIO/8656
60108657004	GW-075034-101811-CE-MW-4	SM 9215B	MBIO/8655	SM 9215B	MBIO/8656
60108657005	GW-075034-101811-CE-MW-5	SM 9215B	MBIO/8655	SM 9215B	MBIO/8656
60108657006	GW-075034-101811-CE-MW-6	SM 9215B	MBIO/8655	SM 9215B	MBIO/8656
60108657007	GW-075034-101811-CE-MW-7	SM 9215B	MBIO/8655	SM 9215B	MBIO/8656

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Cassie Brown	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albuquerque, NM 87110			Address:	
Email To:	cmbrown@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 29-7 Unit 37	Pace Project Manager:	Colleen Koporc
Requested Due Date/TAT:	standard	Project Number:	75034	Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER NMOCD

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	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	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 Sodium Thiosulfate	Y/N	Analysis Test: 8260 BTEX	8015 DRO	8015 GRO	HPC										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60108657
1	GW-075034-101811-CE-MW-1	WT	G	10-18-11	—	10-18-11	1400		1								X					X									001
2	GW-075034-101811-CE-MW-2	WT	G	10-18-11	—	10-18-11	1310		1								X					X									002
3	GW-075034-101811-CE-MW-3	WT	G	10-18-11	—	10-18-11	1300		1								X					X									003
4	GW-075034-101811-CE-MW-4	WT	G	10-18-11	—	10-18-11	1325		1								X					X									004
5	GW-075034-101811-CE-MW-5	WT	G	10-18-11	—	10-18-11	1200		1								X					X									005
6	GW-075034-101811-CE-MW-6	WT	G	10-18-11	—	10-18-11	1240		1								X					X									006
7	GW-075034-101811-CE-MW-7	WT	G	10-18-11	—	10-18-11	1340		1								X					X									007
8	Temp blank	WT	—	—	—	—	—		1	X																					
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)
Return HPC directly to Frontenac Lab:	Chris Evans / CRA	10-18-11	1700	[signature]	10/19/11	1045	2.6	Y	Y	Y
808 West Mckay										
Frontenac, KS 66763										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Chris Evans

SIGNATURE of SAMPLER: Chris Evans DATE Signed (MM/DD/YY): 10-18-11

*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

Sample Condition Upon Receipt

Pace Analytical
www.pacelabs.com

Client Name: COP CRA NM Project # 60108657

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace [ ] Other _____

Tracking #: _____ Pace Shipping Label Used? [ ] Yes [ ] No

Custody Seal on Cooler/Box Present: [X] Yes [ ] No Seals intact: [X] Yes [ ] No

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [ ] Foam [X] None [ ] Other _____

Thermometer Used: T-111 Type of Ice: (Wet) Blue None [ ] Samples on ice, cooling process has begun

Cooler Temperature: 2.0

Temperature should be above freezing to 6°C

Optional	
Proj. Due Date:	
Proj. Name:	16/71

Date and Initials of person examining contents: MB 10/19/11 1045

		Comments:
Chain of Custody present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody filled out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler name & signature on COC:	[X] Yes [ ] No [ ] N/A	4.
Samples arrived within holding time:	[ ] Yes [X] No [ ] N/A	5.
Short Hold Time analyses (<72hr):	[X] Yes [ ] No [ ] N/A	6.
Rush Turn Around Time requested:	[ ] Yes [X] No [ ] N/A	7.
Sufficient volume:	[X] Yes [ ] No [ ] N/A	8.
Correct containers used:	[X] Yes [ ] No [ ] N/A	9.
-Pace containers used:	[X] Yes [ ] No [ ] N/A	
Containers intact:	[X] Yes [ ] No [ ] N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	[ ] Yes [ ] No [X] N/A	11.
Filtered volume received for dissolved tests	[ ] Yes [ ] No [X] N/A	12.
Sample labels match COC:	[X] Yes [ ] No [ ] N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	[ ] Yes [ ] No [X] N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ] Yes [ ] No [X] N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	[X] Yes [ ] No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	[ ] Yes [ ] No [X] N/A	15.
Pace Trip Blank lot # (if purchased): _____		
Headspace in VOA vials (>6mm):	[ ] Yes [ ] No [X] N/A	16.
Project sampled in USDA Regulated Area:	[ ] Yes [ ] No [X] N/A	17. List State: _____

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 10/24/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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

October 25, 2011

Cassie Brown
COP Conestoga-Rovers & Associa

RE: Project: SAN JUAN 29-7 Unit 37 (075034)
Pace Project No.: 60108490

Dear Cassie Brown:
Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Anna Custer

anna.custer@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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

CERTIFICATIONS

Project: SAN JUAN 29-7 Unit 37 (075034)
Pace Project No.: 60108490

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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

SAMPLE SUMMARY

Project: SAN JUAN 29-7 Unit 37 (075034)
Pace Project No.: 60108490

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60108490001	GW-075034-101911-CE-MW-8	Water	10/19/11 14:30	10/20/11 09:40

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

SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 Unit 37 (075034)
Pace Project No.: 60108490

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60108490001	GW-075034-101911-CE-MW-8	SM 9215B	MEB	1

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

PROJECT NARRATIVE

Project: SAN JUAN 29-7 Unit 37 (075034)
Pace Project No.: 60108490

Method: **SM 9215B**
Description: MBIO HPC (Drinking Water)
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 25, 2011

General Information:
1 sample was analyzed for SM 9215B. All samples were received in acceptable condition with any exceptions noted below.

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

u3: Analysis initiated more than 6 hours but less than 24 hours after sample collection.
- GW-075034-101911-CE-MW-8 (Lab ID: 60108490001)

Sample Preparation:
The samples were prepared in accordance with SM 9215B with any exceptions noted below.

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

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: SAN JUAN 29-7 Unit 37 (075034)
Pace Project No.: 60108490

Sample: GW-075034-101911-CE-MW-8 **Lab ID: 60108490001** Collected: 10/19/11 14:30 Received: 10/20/11 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**2300000**	CFU/mL	1.0	1	10/20/11 12:15	10/22/11 11:35		u3

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 Unit 37 (075034)
Pace Project No.: 60108490

QC Batch: MBIO/8657
QC Batch Method: SM 9215B
Analysis Method: SM 9215B
Analysis Description: 9215B Heterotrophic Plate Count
Associated Lab Samples: 60108490001

METHOD BLANK: 897499
Matrix: Solid
Associated Lab Samples: 60108490001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Heterotrophic Plate Count	CFU/mL	<1	1.0	10/22/11 11:35	

SAMPLE DUPLICATE: 897500

Parameter	Units	60108490001 Result	Dup Result	RPD	Max RPD	Qualifiers
Heterotrophic Plate Count	CFU/mL	2300000	2100000			

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: SAN JUAN 29-7 Unit 37 (075034)
Pace Project No.: 60108490

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

ANALYTE QUALIFIERS

u3 Analysis initiated more than 6 hours but less than 24 hours after sample collection.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 Unit 37 (075034)
Pace Project No.: 60108490

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60108490001	**GW-075034-101911-CE-MW-8**	SM 9215B	MBIO/8657	SM 9215B	MBIO/8658

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albuquerque, NM 87110
Email To:	cmbrown@craworld.com
Phone: (505)884-0672	Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Cassie Brown
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	75034

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Koporc
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☒ OTHER NMOCD

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 Sodium Thiosulfate	Analysis Test Y/N	8260 BTEX	8015 DRO	8015 GRO	HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-075034-101911-CE-MW-8	WT	G	—	—	10-19-11	1430		1								X					X		001
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Return HPC directly to Frontenac Lab:	Chris Evans / CRA	10-19-11	1500		10/20/11	0940	2.0 Y Y
808 West Mckay							
Frontenac, KS 66763							

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Chris Evans					
SIGNATURE of SAMPLER:	Chris Evans	DATE Signed (MM/DD/YY): 10-19-11				

*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

Sample Condition Upon Receipt

Pace Analytical

Client Name: COP CRA NM Project # 60105490

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____ Pace Shipping Label Used? ☐ Yes ☐ No

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

Optional	
Proj. Due Date:	
Proj. Name:	11/01

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

Thermometer Used: T-111 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2.0

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: MB 10/19/11 0940

		Comments:
Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
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	9.
-Pace containers used:	☒ Yes ☐ No ☐ N/A	
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.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix:	WT	
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
Exceptions VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☐ Yes ☐ No ☒ N/A	15.
Pace Trip Blank lot # (if purchased): _____		
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☒ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	17. List State: _____

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

Person Contacted: _____ Date/Time: _____

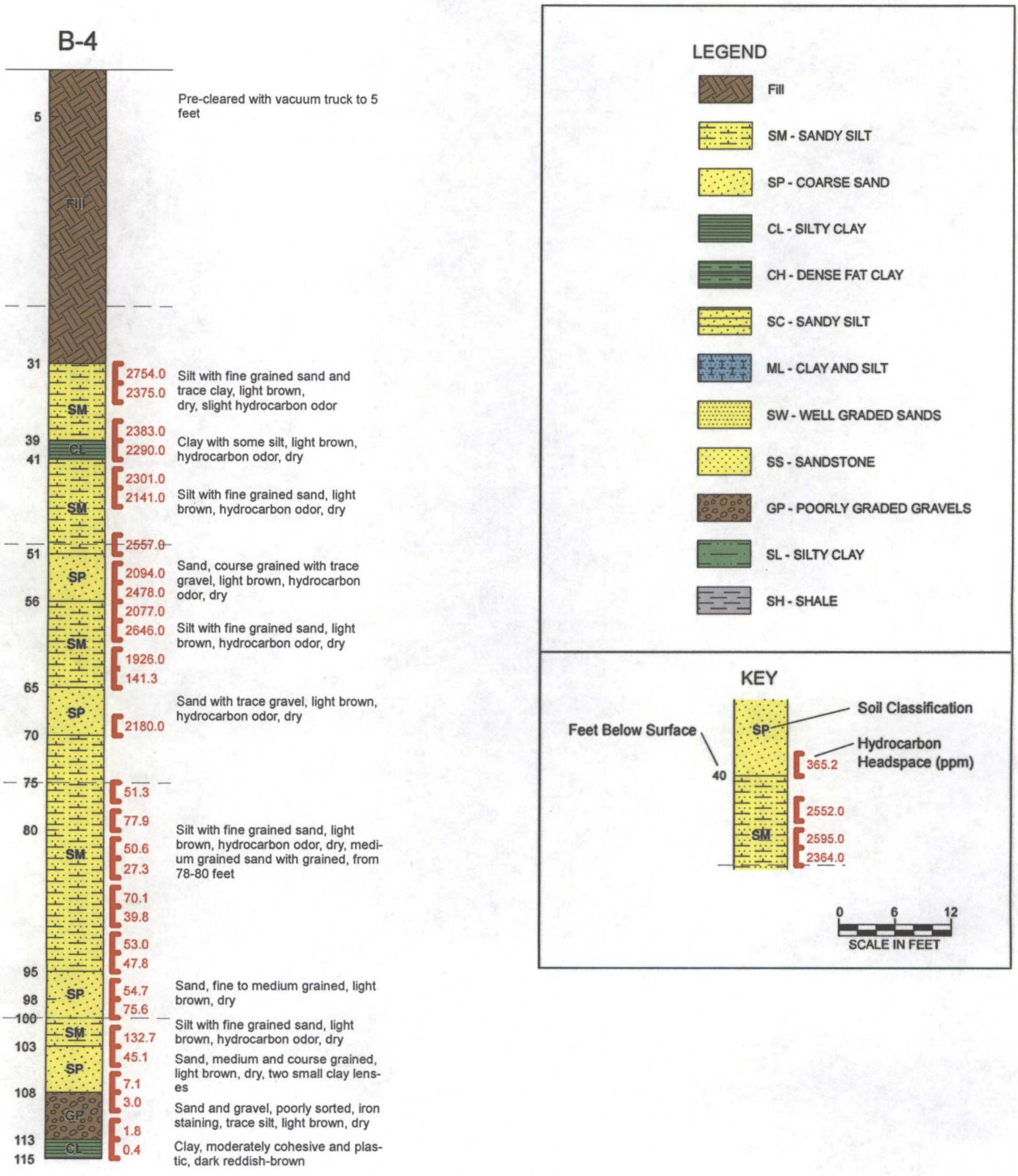
Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

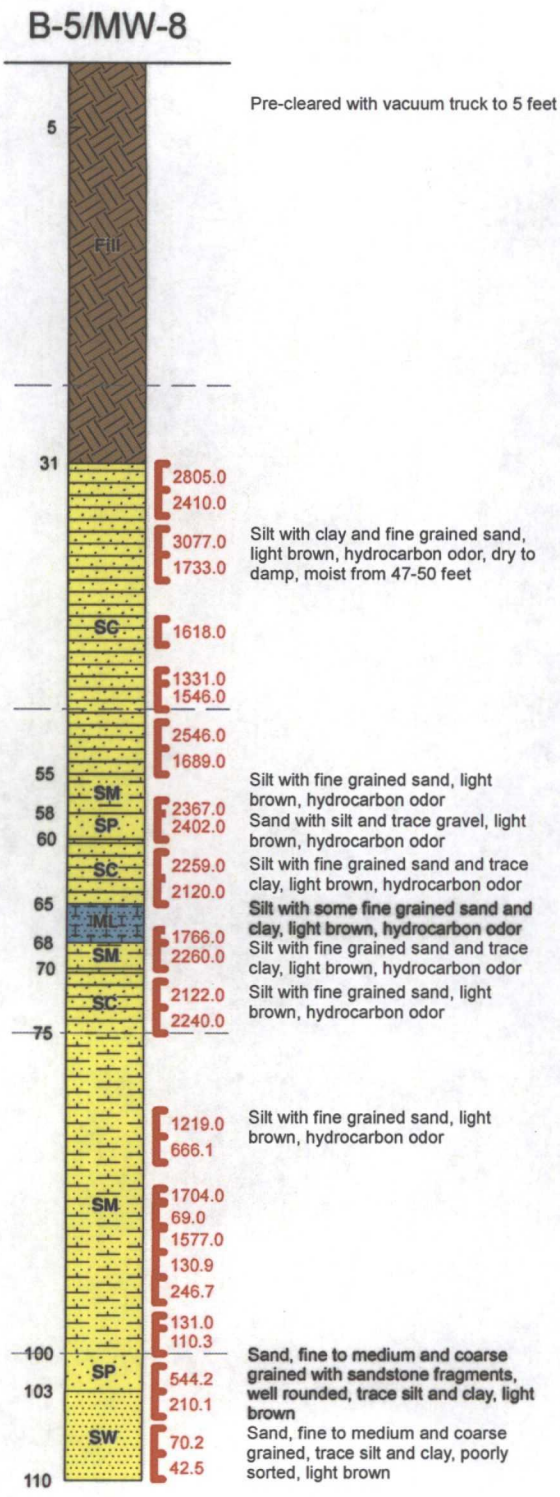
Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

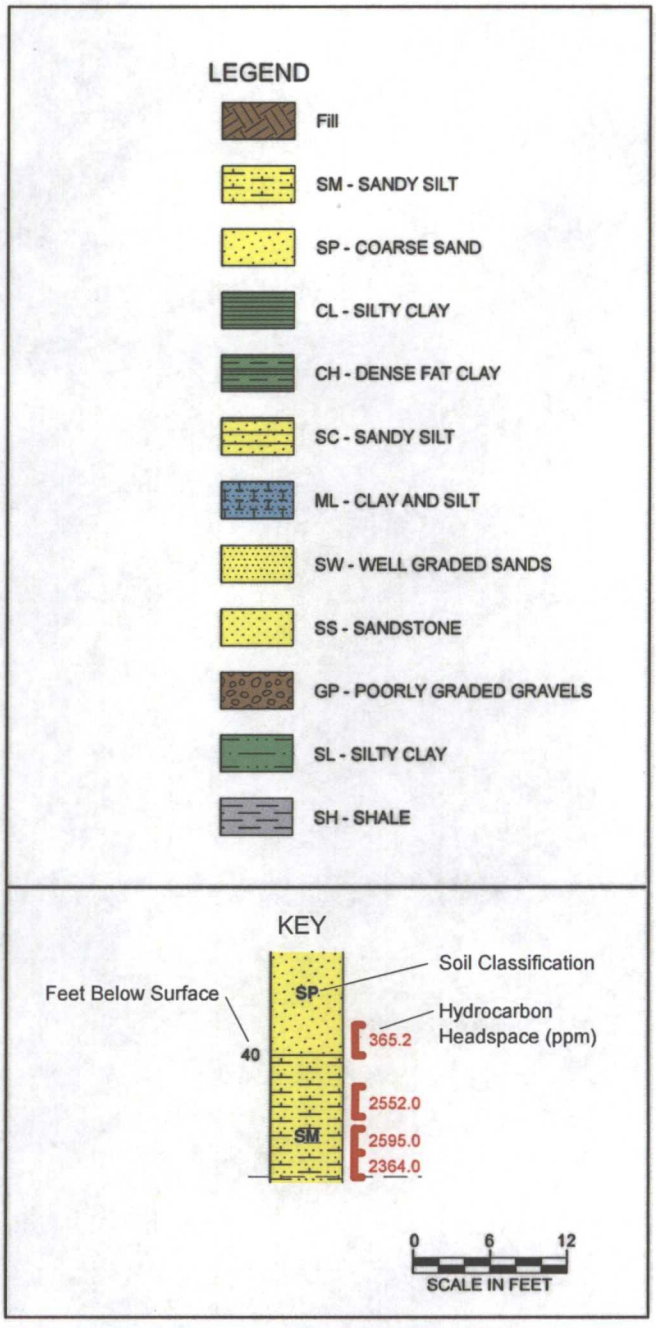
APPENDIX B

BORING LOGS AND WELL COMPLETION DIAGRAMS



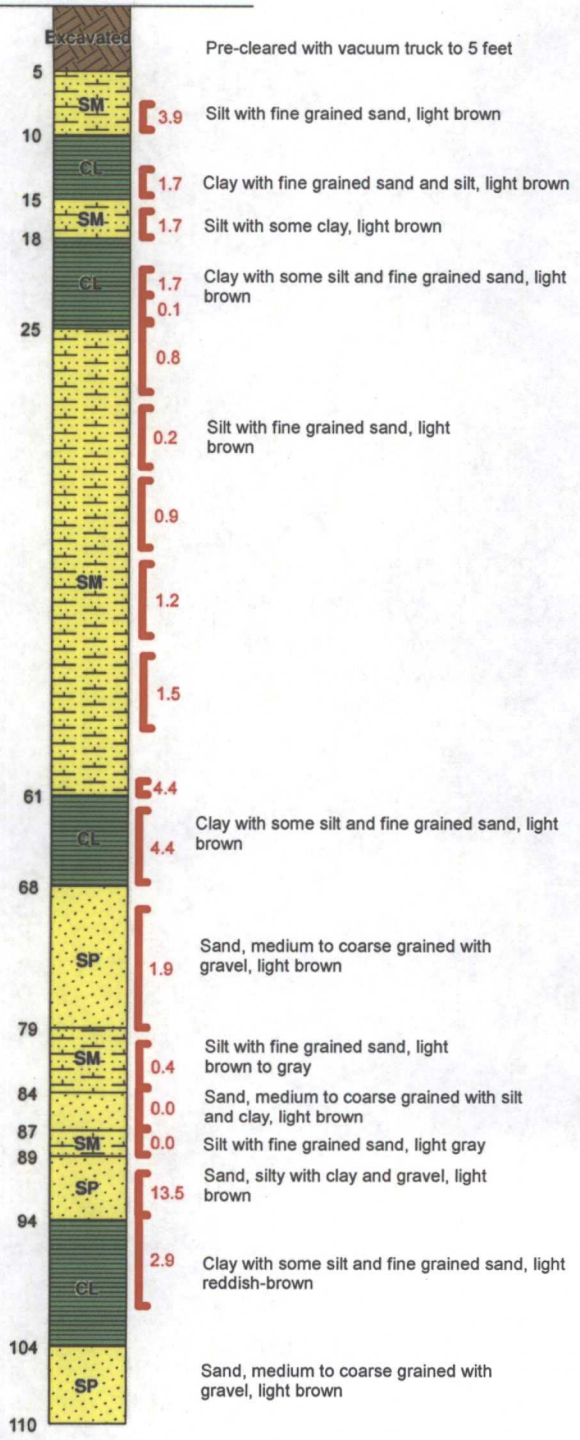
SOIL BORING LOG B-4
SAN JUAN 29-7 UNIT 37
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company





SOIL BORING LOG B-5/MW-8
SAN JUAN 29-7 UNIT 37
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

B-6/MW-6

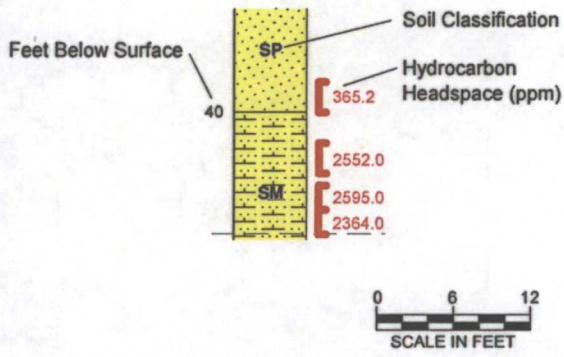


Pre-cleared with vacuum truck to 5 feet

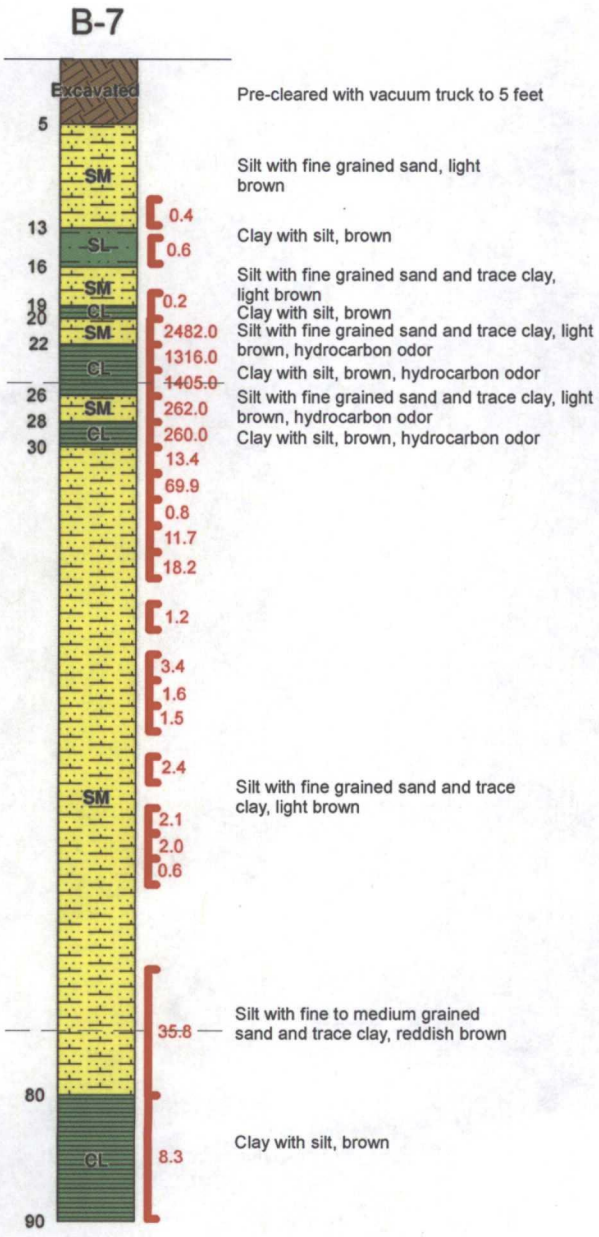
LEGEND

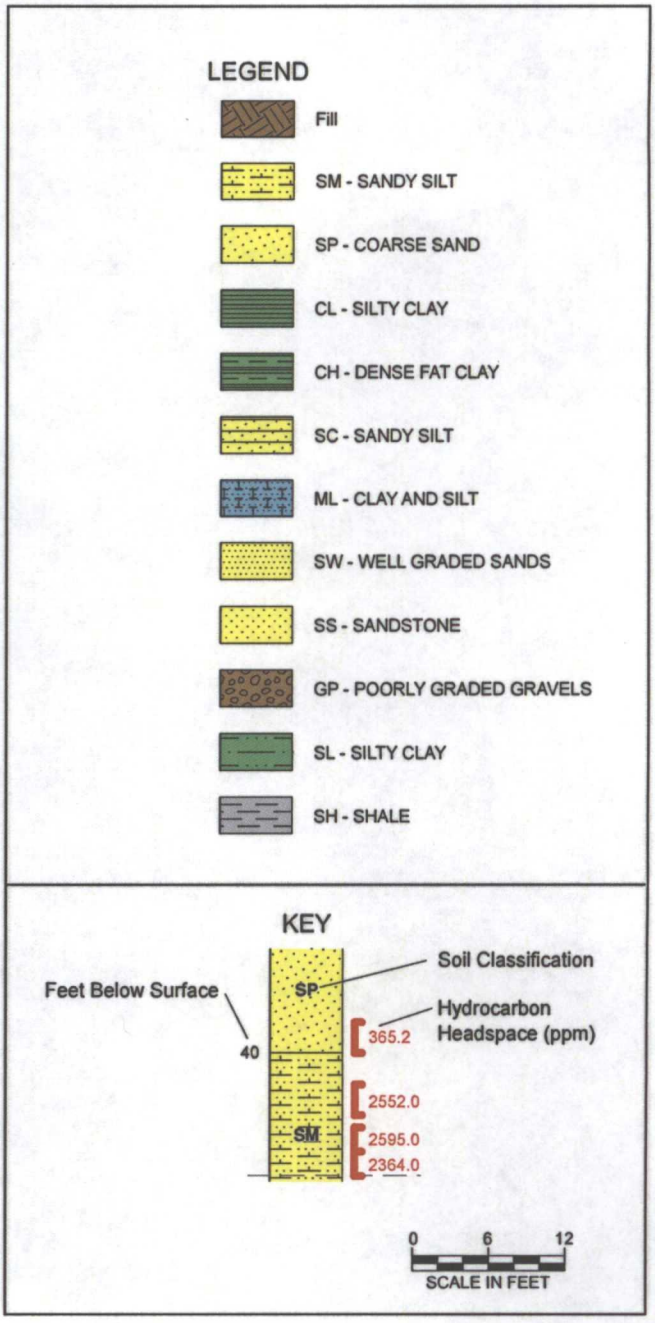
- Fill
- SM - SANDY SILT
- SP - COARSE SAND
- CL - SILTY CLAY
- CH - DENSE FAT CLAY
- SC - SANDY SILT
- ML - CLAY AND SILT
- SW - WELL GRADED SANDS
- SS - SANDSTONE
- GP - POORLY GRADED GRAVELS
- SL - SILTY CLAY
- SH - SHALE

KEY

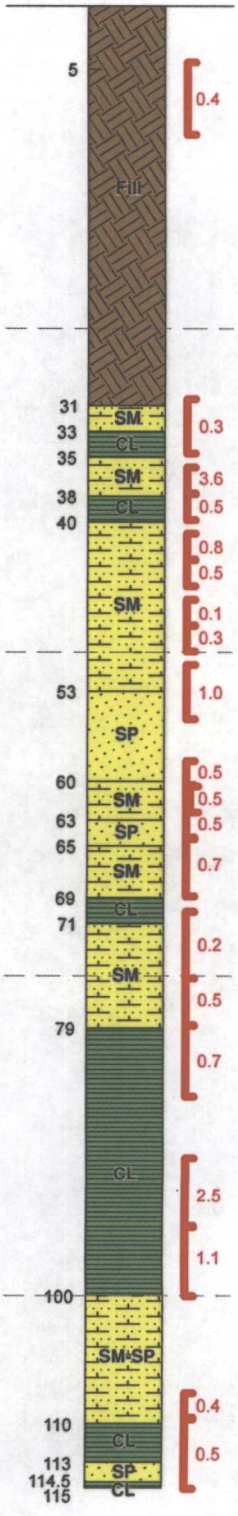


SOIL BORING LOG B-6/MW-6
SAN JUAN 29-7 UNIT 37
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company





SOIL BORING LOG B-7
SAN JUAN 29-7 UNIT 37
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company



Pre-cleared with vacuum truck to 5 feet

Silt with fine grained sand and trace clay, light brown

Clay with some silt and fine grained sand, light brown

Silt with fine grained sand and trace clay, light brown

Clay with some silt and fine grained sand, light brown

Silt with fine grained sand and trace clay, light brown

Sand, medium to coarse grained with silt and gravel, light brown

Silt with fine to medium grained sand and trace clay, light brown

Sand, medium to coarse grained with silt and gravel, light brown

Silt with fine to coarse grained sand and trace gravel, light brown

Clay with some silt and fine grained sand, brown

Silt with fine to medium grained sand and trace clay, brown

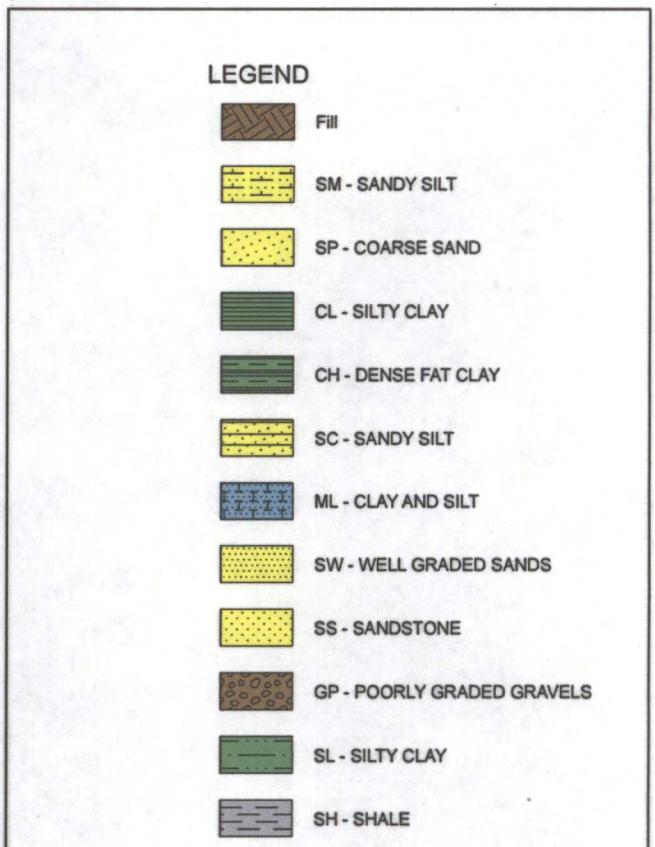
Clay with trace to some silt and fine grained sand, medium plasticity, brown

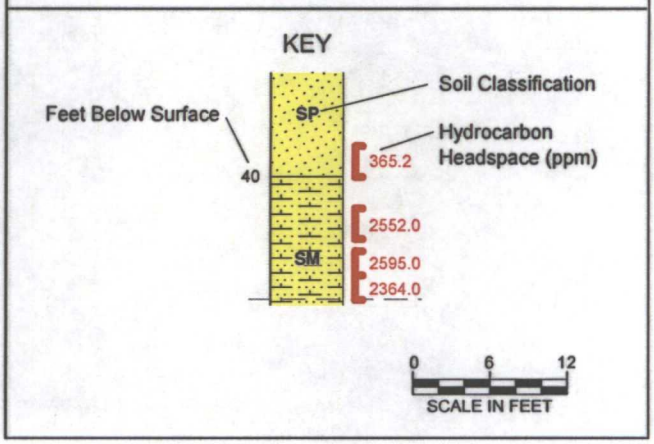
Silt with fine to medium grained sand, coarser towards bottom of interval, slight orange staining, light brown

Clay with some fine grained sand, wet, light brown

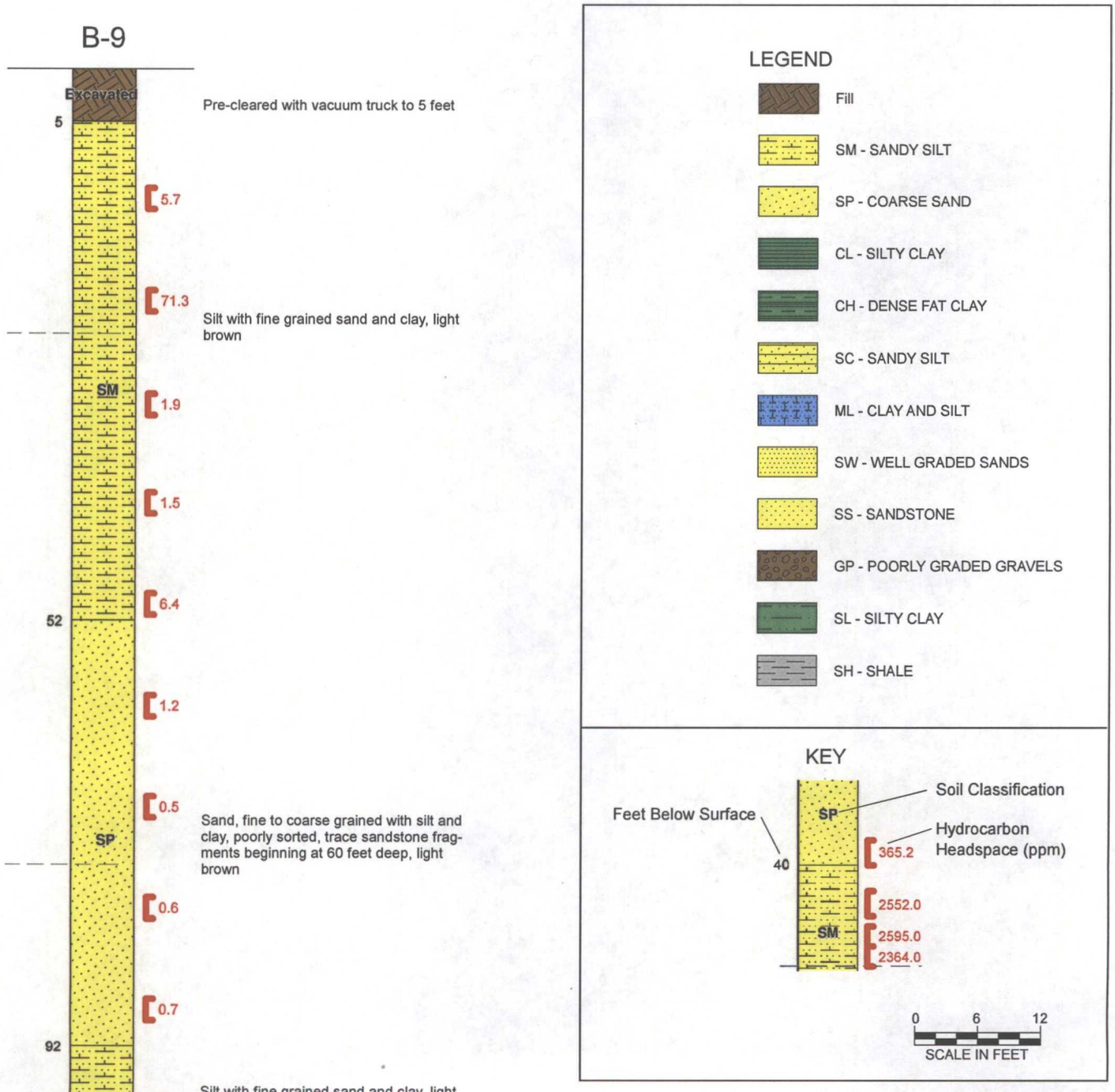
Sand, medium to coarse grained, saturated, light brown

Clay with fine to coarse grained sand, saturated, light brown



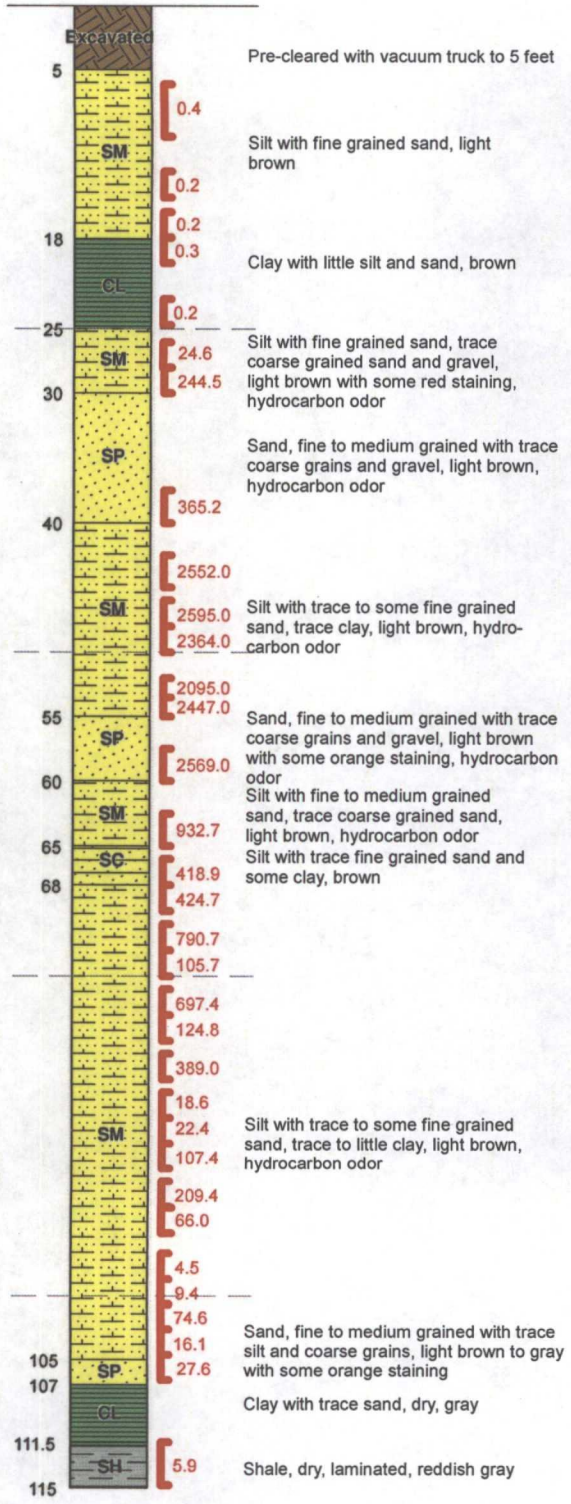


SOIL BORING LOG B-8
SAN JUAN 29-7 UNIT 37
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company



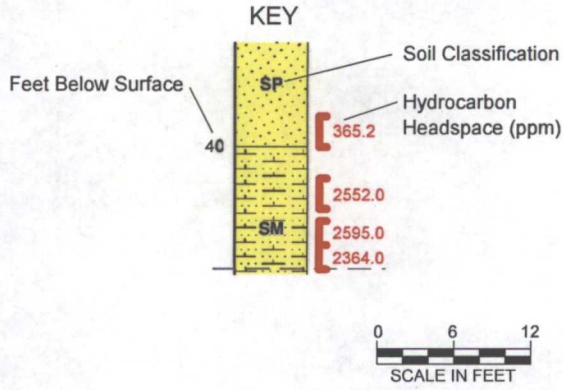
SOIL BORING LOG B-9
SAN JUAN 29-7 UNIT 37
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

B-10

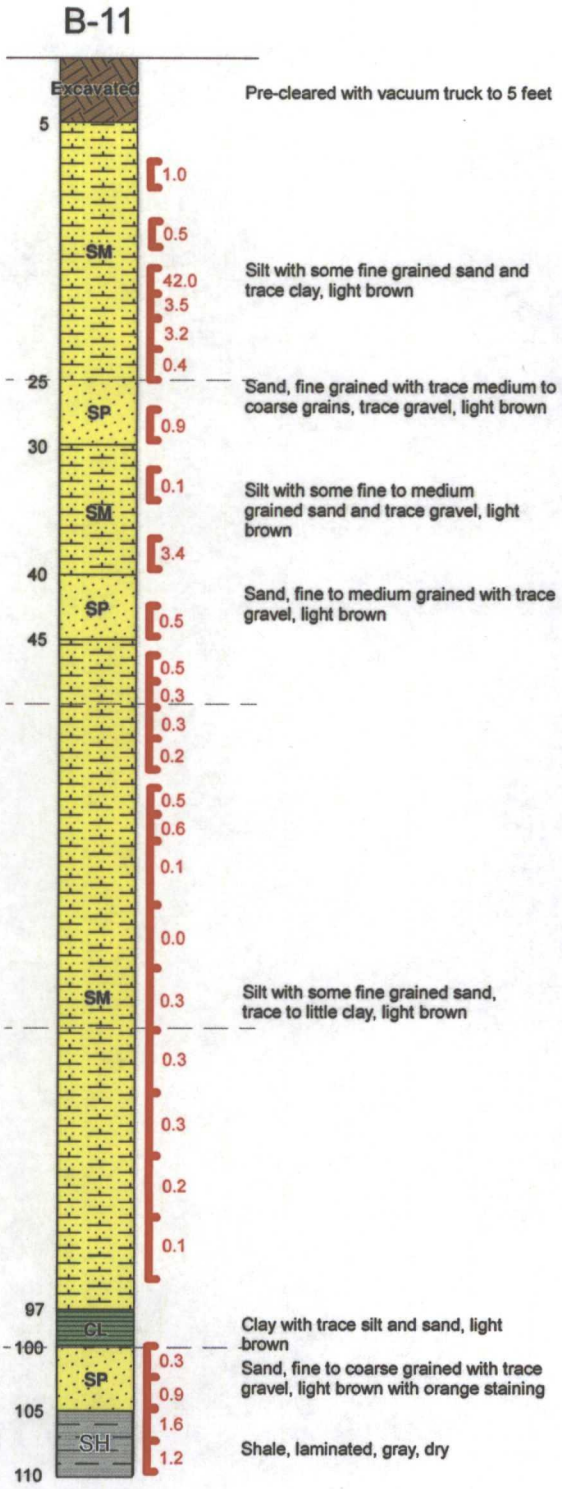


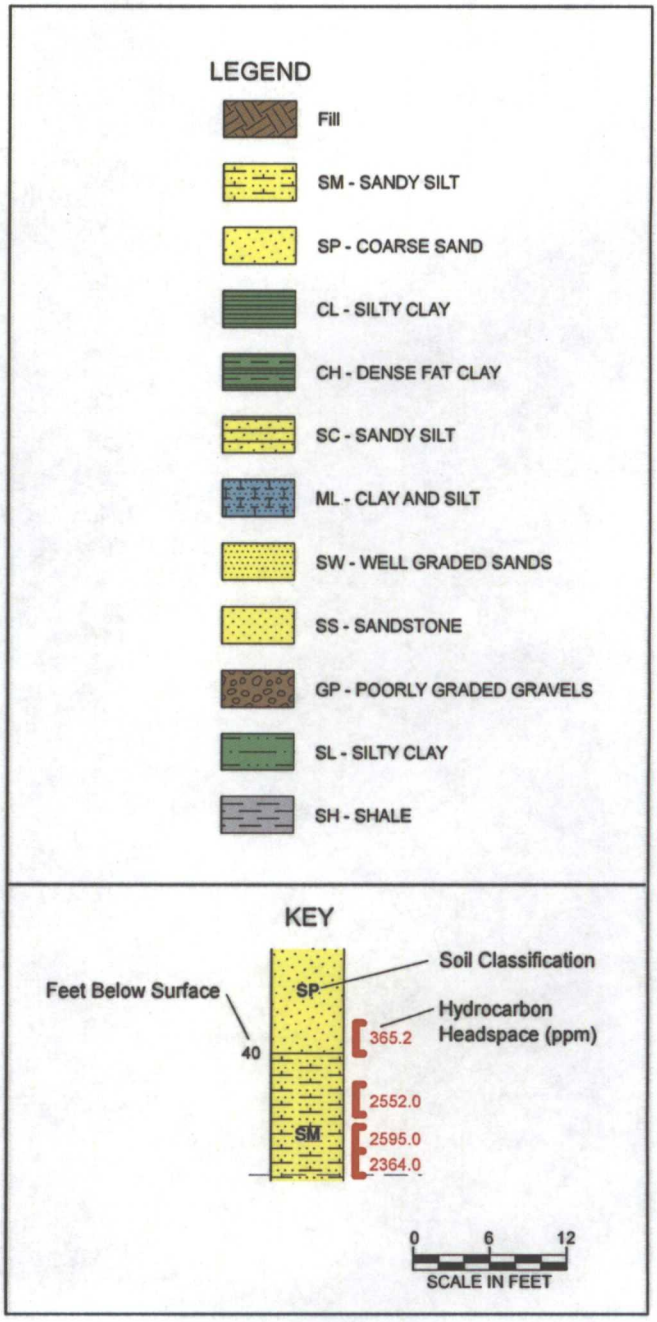
LEGEND

KEY



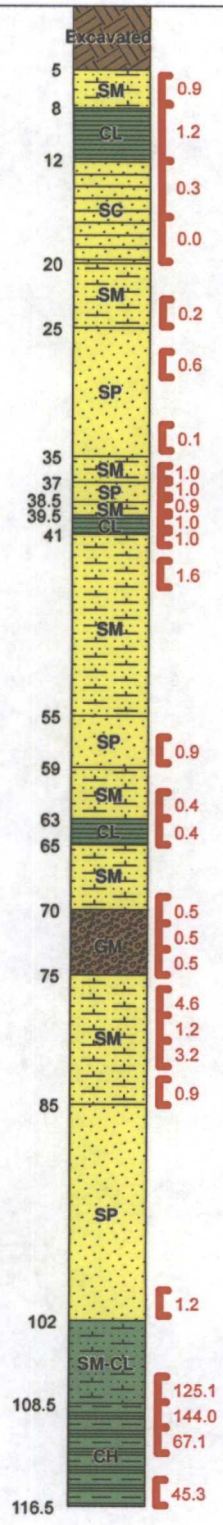
SOIL BORING LOG B-10
SAN JUAN 29-7 UNIT 37
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company





SOIL BORING LOG B-11
SAN JUAN 29-7 UNIT 37
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

MW-5



Pre-cleared with vacuum truck to 5 feet

0.9 — Silt with fine grained sand, light brown

1.2 — Clay with fine grained sand and silt, light brown

0.3 — Silt with fine grained sand and clay, light brown

0.0

0.2 — Silt with fine grained sand, light brown

0.6 — Sand, medium and course grained, well rounded, some silt and gravel, trace silt and clay from 20-30 feet, light brown

0.1

1.0 — Silt with fine grained sand, light brown

1.0 — Sand, medium and course grained, light brown

0.9 — Silt with fine grained sand, light brown

1.0

1.0 — Clay with fine grained sand and silt, light brown

1.6 — Silt with fine grained sand, light brown

0.9 — Sand, medium to coarse grained with gravel, no fines

0.4 — Silt with fine to medium grained sand, clay lenses at base, light brown

0.4 — Clay, dense, light brown, dry

Silt with fine grained sand, light brown

0.5

0.5 — Silt, sand, and gravel, light brown

0.5

4.6

1.2 — Silt with fine grained sand, light brown

3.2

0.9

Sand, medium to coarse grained with gravel, some silt, light brown; shovel samples only from 85-100 feet

1.2

Silt with fine grained sand, light brown to 107.5 feet, then gray laminated shale or clay with slight hydrocarbon odor to 108.5 feet

125.1

144.0

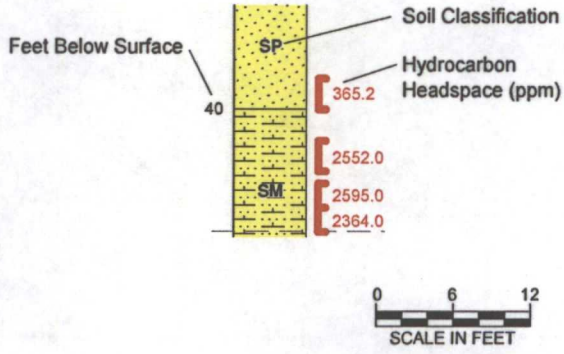
67.1 — Clayey sand with trace gravel to 109 feet, then hard, dense laminated clay or shale to 116.5 feet, gray, dry

45.3

LEGEND

- Fill
- SM - SANDY SILT
- SP - COARSE SAND
- CL - SILTY CLAY
- CH - DENSE FAT CLAY
- SC - SANDY SILT
- ML - CLAY AND SILT
- SW - WELL GRADED SANDS
- SS - SANDSTONE
- GP - POORLY GRADED GRAVELS
- SL - SILTY CLAY
- SH - SHALE

KEY



SOIL BORING LOG MW-5
SAN JUAN 29-7 UNIT 37
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

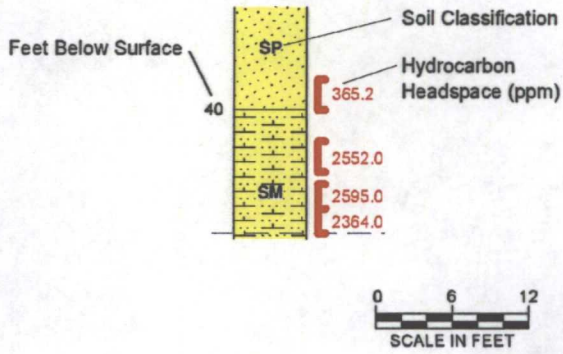
MW-7

Excavated	Pre-cleared with vacuum truck to 5 feet
0.7	Silt with fine grained sand and trace clay, light brown
2.3	Sand, fine to coarse grained with trace gravel, light brown
0.5	Silt with fine grained sand and trace gravel, light brown
0.5	Clay with little silt and sand, light brown
1.0 0.7	Silt with fine grained sand and trace clay, light brown,
0.4 0.1	
0.5 0.2	Fine silty sand with dry sandy silty clay lenses, light brown
0.7 0.9	Silt with fine grained sand and trace clay, light brown,
0.3	Silt with fine grained sand and trace clay, light brown,
0.6 0.7	Sand, fine to medium grained with trace silt, light brown
0.7 0.6	Silt with fine grained sand and trace clay, light brown, Sand, fine to medium grained with trace silt and clay, light brown
1.8	
1.8 2.9	Clay with some silt and sand, light brown
2.9	
2.2	Silt with fine grained sand and some clay, light brown,
2.2 8.4	
	Clay, dense with some silt and sand, trace gravel, light brown to gray at 110 feet with orange staining, wet at 107.5 feet
8.4 1.2 0.9	
1.3 0.7	Clay, dry, gray
	Shale, dry, laminated, reddish gray

LEGEND

- Fill
- SM - SANDY SILT
- SP - COARSE SAND
- CL - SILTY CLAY
- CH - DENSE FAT CLAY
- SC - SANDY SILT
- ML - CLAY AND SILT
- SW - WELL GRADED SANDS
- SS - SANDSTONE
- GP - POORLY GRADED GRAVELS
- SL - SILTY CLAY
- SH - SHALE

KEY

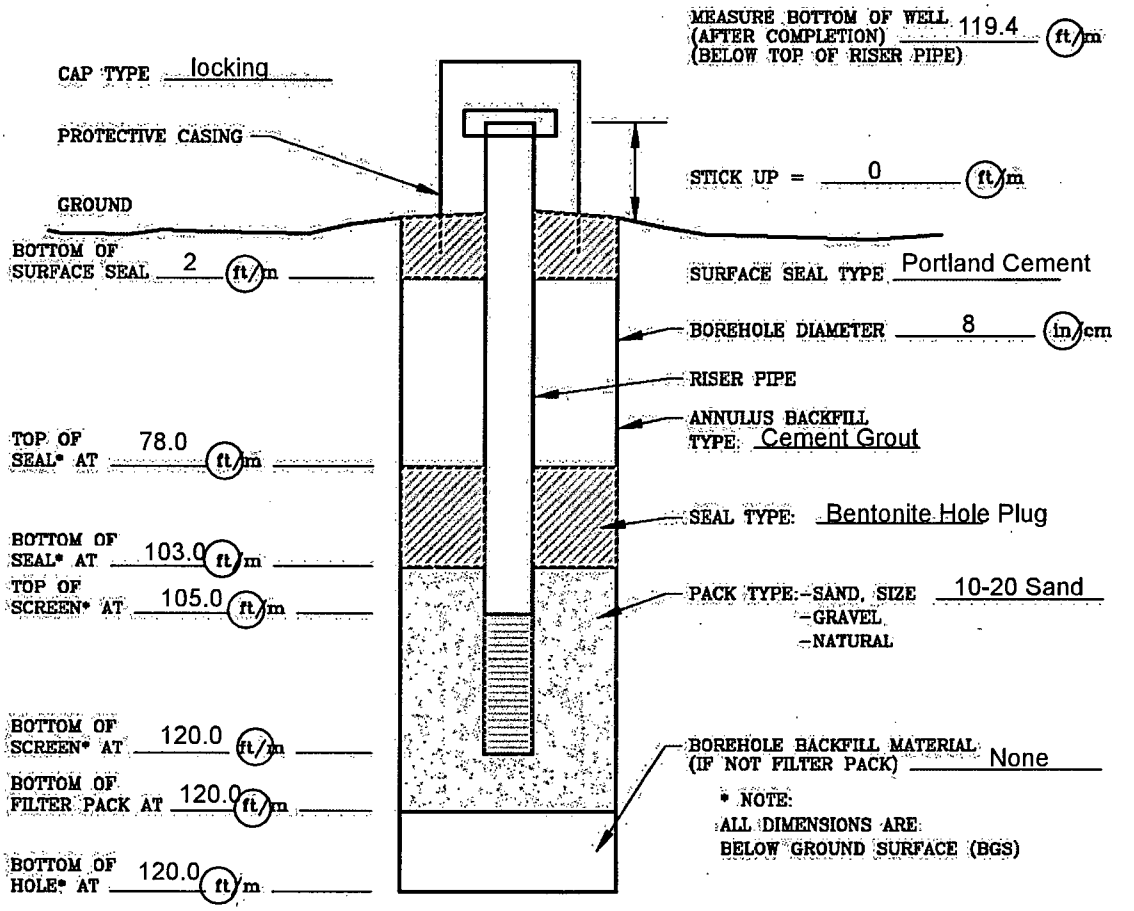


SOIL BORING LOG MW-7
SAN JUAN 29-7 UNIT 37
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

WELL COMPLETION DIAGRAM

PROJECT NAME: San Juan 29-7 Unit 37
PROJECT NUMBER: 075034
CLIENT: ConocoPhillips
LOCATION: Rio Arriba County, NM

WELL DESIGNATION: MW-5
DATE COMPLETED: September 24, 2011
DRILLING METHOD: CME-75 Hollow Stem Auger
CRA SUPERVISOR: Kelly Blanchard



SCREEN TYPE: ☒ continuous slot ☐ wire wrapped ☐ louvre ☐ other: _____

SCREEN MATERIAL: ☐ stainless steel ☒ pvc ☐ other: _____

SCREEN LENGTH: 15 ft/m SCREEN DIAMETER: 2 in/cm SCREEN SLOT SIZE: 0.010

RISER PIPE MATERIAL: Schedule 40 PVC RISER PIPE DIAMETER: 2 in/cm

SURFACE CASING (Y/N): Yes MATERIAL: Steel DEPTH: 2 ft/m

DIAMETER: 8 in/cm SEALANT: Manhole

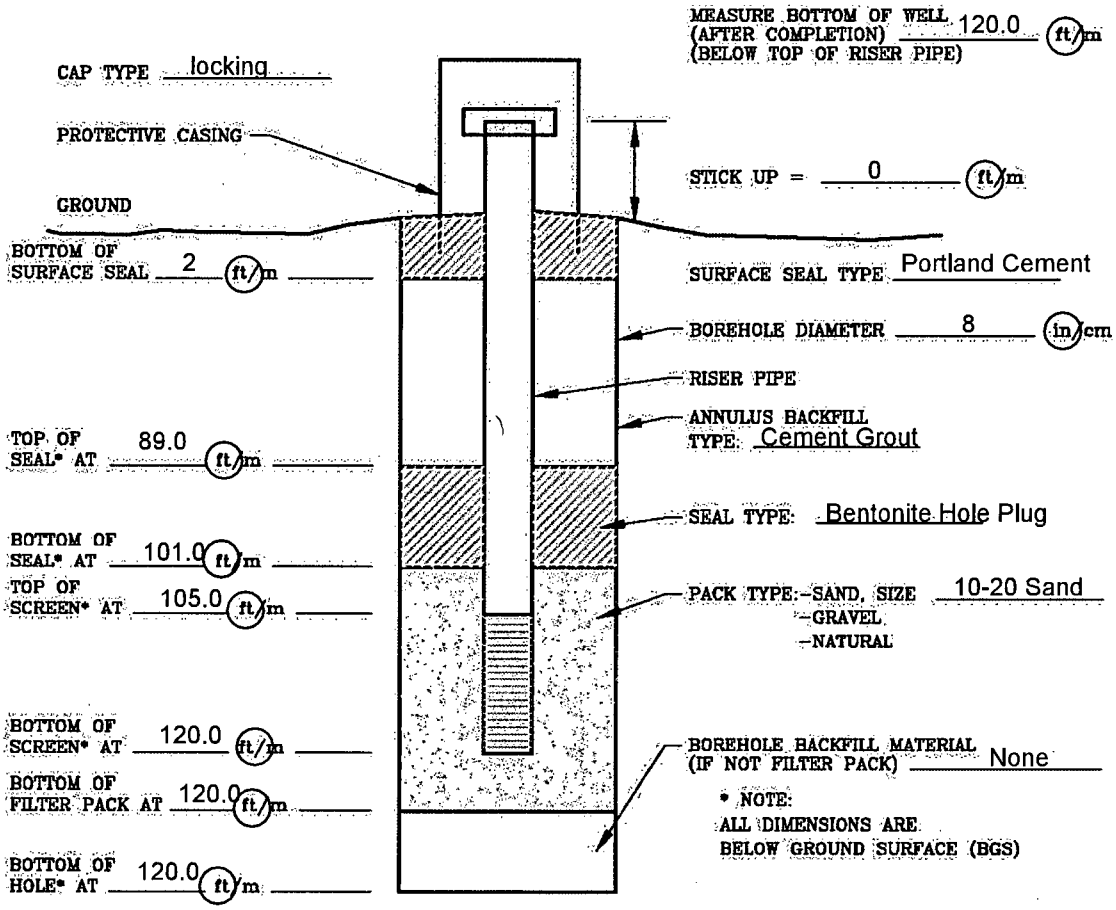
DEVELOPMENT: METHOD: Bailed DURATION: _____

DESCRIPTION OF PURGED WATER: Silty, very little volume

WELL COMPLETION DIAGRAM

PROJECT NAME: San Juan 29-7 Unit 37
PROJECT NUMBER: 075034
CLIENT: ConocoPhillips
LOCATION: Rio Arriba County, NM

WELL DESIGNATION: MW-6
DATE COMPLETED: October 11, 2011
DRILLING METHOD: CME-75 Hollow Stem Auger
CRA SUPERVISOR: Kelly Blanchard



SCREEN TYPE: ☒ continuous slot ☐ wire wrapped ☐ louvre ☐ other: _____

SCREEN MATERIAL: ☐ stainless steel ☒ pvc ☐ other: _____

SCREEN LENGTH: 15 ft/m SCREEN DIAMETER: 2 in/cm SCREEN SLOT SIZE: 0.010

RISER PIPE MATERIAL: Schedule 40 PVC RISER PIPE DIAMETER: 2 in/cm

SURFACE CASING (Y/N): Yes MATERIAL: Steel DEPTH: 2 ft/m

DIAMETER: 8 in/cm SEALANT: Manhole

DEVELOPMENT: METHOD: Bailed DURATION: _____

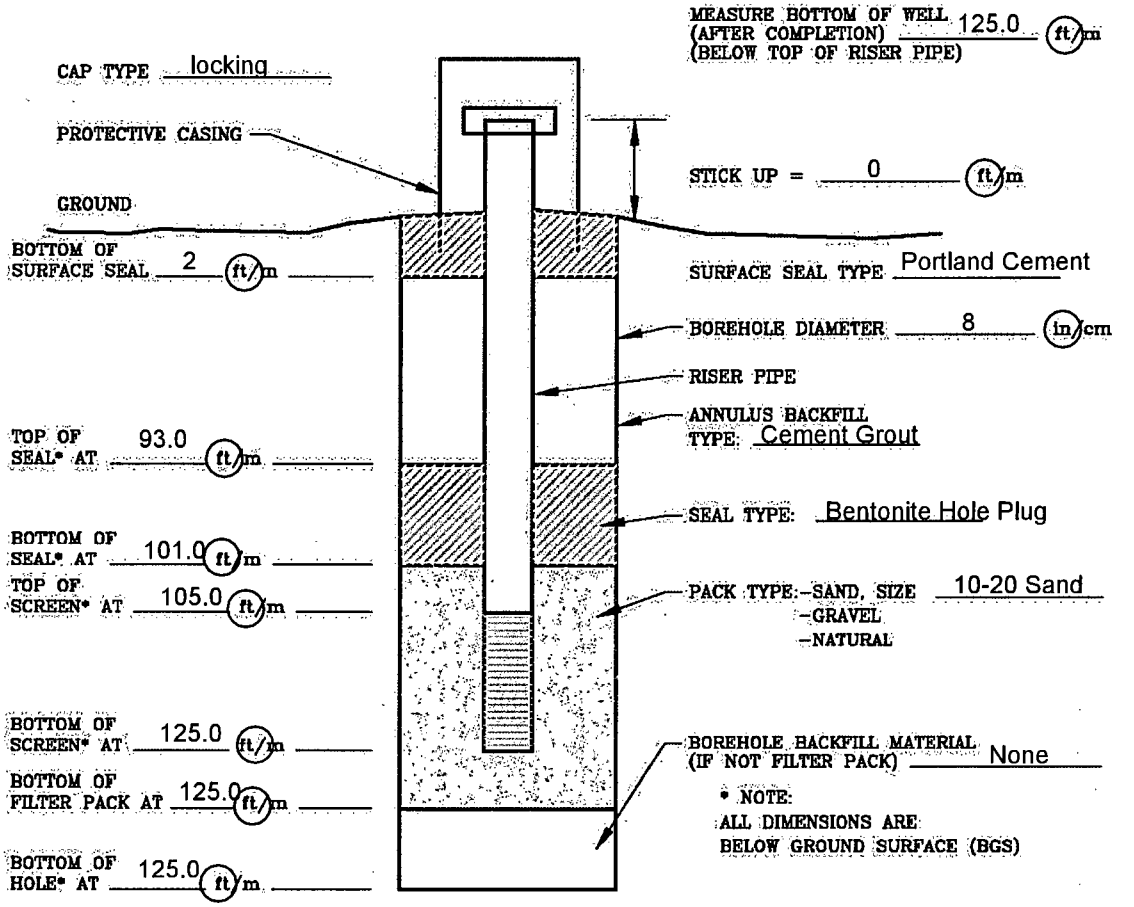
DESCRIPTION OF PURGED WATER: Silty, good recharge

CRA

WELL COMPLETION DIAGRAM

PROJECT NAME: San Juan 29-7 Unit 37
PROJECT NUMBER: 075034
CLIENT: ConocoPhillips
LOCATION: Rio Arriba County, NM

WELL DESIGNATION: MW-7
DATE COMPLETED: October 12, 2011
DRILLING METHOD: CME-75 Hollow Stem Auger
CRA SUPERVISOR: Kelly Blanchard



SCREEN TYPE: [x] continuous slot [ ] wire wrapped [ ] louvre [ ] other: _____

SCREEN MATERIAL: [ ] stainless steel [x] pvc [ ] other: _____

SCREEN LENGTH: 20 ft/m SCREEN DIAMETER: 2 in/cm SCREEN SLOT SIZE: 0.010

RISER PIPE MATERIAL: Schedule 40 PVC RISER PIPE DIAMETER: 2 in/cm

SURFACE CASING (Y/N) Yes MATERIAL: Steel DEPTH: 2 ft/m

DIAMETER: 8 in/cm SEALANT: Manhole

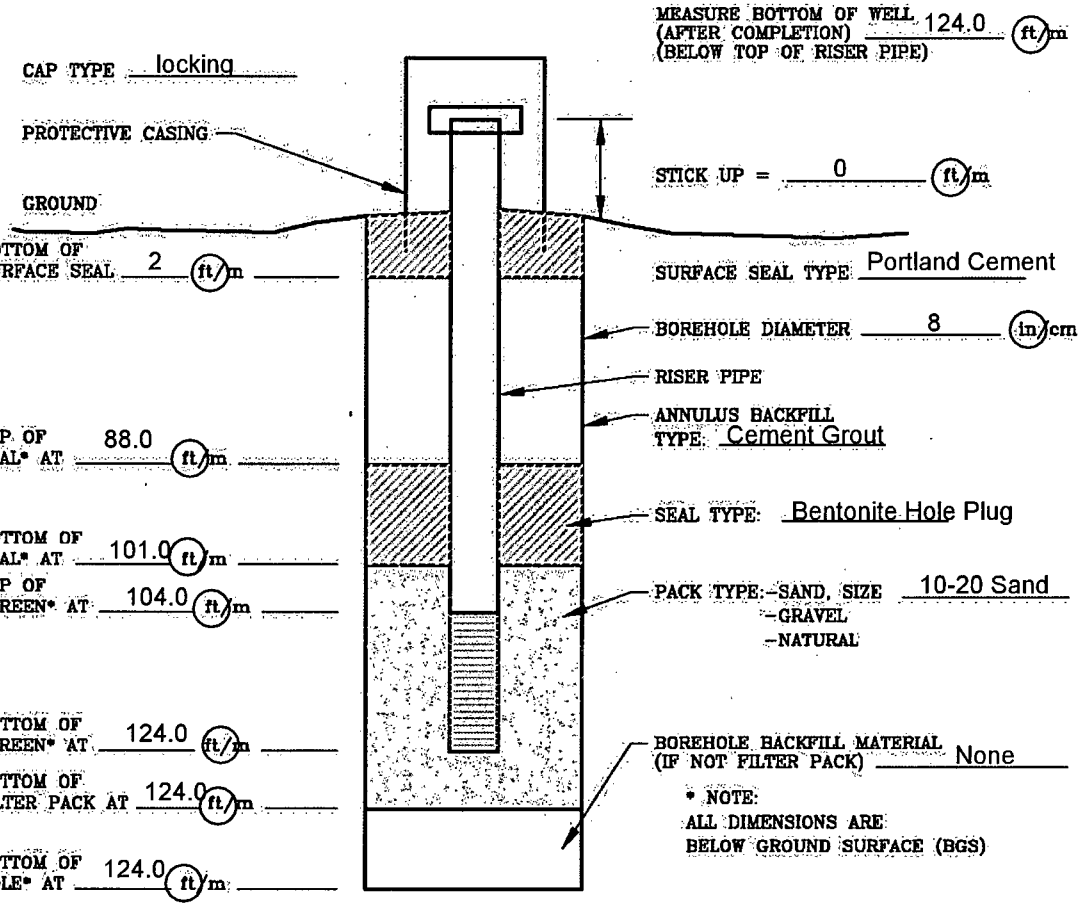
DEVELOPMENT: METHOD: Bailed DURATION: _____

DESCRIPTION OF PURGED WATER: Silty, very low volume. Recharges after approximately one hour

WELL COMPLETION DIAGRAM

PROJECT NAME: San Juan 29-7 Unit 37
PROJECT NUMBER: 075034
CLIENT: ConocoPhillips
LOCATION: Rio Arriba County, NM

WELL DESIGNATION: MW-8
DATE COMPLETED: October 17, 2011
DRILLING METHOD: CME-75 Hollow Stem Auger
CRA SUPERVISOR: Kelly Blanchard



SCREEN TYPE: ☒ continuous slot ☐ wire wrapped ☐ louvre ☐ other: _____

SCREEN MATERIAL: ☐ stainless steel ☒ pvc ☐ other: _____

SCREEN LENGTH: 20 ft/m SCREEN DIAMETER: 2 in/cm SCREEN SLOT SIZE: 0.010

RISER PIPE MATERIAL: Schedule 40 PVC RISER PIPE DIAMETER: 2 in/cm

SURFACE CASING (Y/N) Yes MATERIAL Steel DEPTH 2 ft/m

DIAMETER 8 in/cm SEALANT Manhole

DEVELOPMENT: METHOD: Bailed DURATION: _____

DESCRIPTION OF PURGED WATER: Silty, good recharges

CRA

APPENDIX C

GROUNDWATER SAMPLING FIELD FORMS

WELL ~~DEVELOPMENT~~ Sampling AND STABILIZATION FORM

PROJECT NAME: San Juan 29-7 Unit 37 PROJECT NO.: 075034

DATE OF WELL ~~DEVELOPMENT~~ Sampling: 8-17-11

~~DEVELOPMENT~~ Sampling CREW MEMBERS: C. Mathews & K. Blanchard

PURGING METHOD: Bailer

SAMPLE NO.: GW-08171-075034-~~001~~ CFM-001

SAMPLE TIME: 1030

WELL INFORMATION

WELL NUMBER: MW-4

WELL TYPE (diameter/material): 2" PVC

MEASURING POINT ELEVATION: 198.16

STATIC WATER DEPTH: 111.10 ELEVATION: 87.06

BOTTOM DEPTH: 123.4 ELEVATION:

WATER COLUMN LENGTH: 12.3

SCREENED INTERVAL:

WELL VOLUME: 12.3 x .16 = 1.968 x 3 = 5.904

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):	gallons	3.5	4	4.5	5	5.5	6	
FIELD pH:		7.32	7.27	7.35	7.36	7.18	7.42	
FIELD TEMPERATURE:	°C	14.63	14.43	14.51	14.56	14.50	14.51	
FIELD CONDUCTIVITY:	µs/cm	2241	2234	2242	2244	2241	2239	
CLARITY/~~TURBIDITY VALUES~~:	g/L	1.817	1.819	1.822	1.823	1.821	1.819	
COLOR:		lt tan	lt tan	lt. tan	lt tan	lt tan	lt tan	
ODOR:		none	none	none	none	none	none	
COMMENTS:								
ORP		213.5	209.9	209.4	190	191.1		
DO	mg/L	6.66	6.41	6.05	7.01	7.32		

COPIES TO:

sampling
WELL ~~DEVELOPMENT~~ AND STABILIZATION FORM

PROJECT NAME: San Juan 29-7 Unit 37 PROJECT NO.: 075034

DATE OF WELL ~~DEVELOPMENT~~ sampling: 8-17-11

~~DEVELOPMENT~~ sampling CREW MEMBERS: K. Blanchard, C. Mathers

PURGING METHOD: bailer (disposable, dedicated 1.5" PVC)

SAMPLE NO.: GW-681711-075034-CFM-002

SAMPLE TIME: 11:25

WELL INFORMATION

WELL NUMBER: MW-3

WELL TYPE (diameter/material): 2" PVC

MEASURING POINT ELEVATION: TOC 188.35

STATIC WATER DEPTH: 109.35 ELEVATION: 79.00

BOTTOM DEPTH: 121.78 ELEVATION:

WATER COLUMN LENGTH: 12.43

SCREENED INTERVAL:

WELL VOLUME: 12.43 X .16 = 1.98 X 3 = 5.96

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume): gallons	4	4.5	5	5.5	6		
FIELD pH:	7.01	6.96	6.89	6.87	6.80		
FIELD TEMPERATURE: °C	15.72	15.44	15.55	15.56	15.81		
FIELD CONDUCTIVITY: us/cm	2188	2179	2185	2180	2179		
CLARITY/~~TURBIDITY VALUES~~: TDS g/L	1.730	1.734	1.735	1.737	1.736		
COLOR:	~~H. gray~~ brown	~~H. gray~~ brown	~~H. gray~~ brown	~~lt. brown~~ brown	~~lt. brown~~ very light brown		
ODOR:	none	none	none	none	none		
COMMENTS: ORP	-33.2	-30.1	-25.2	-20.9	-19.6		
DO mg/L	3.01	2.14	1.77	1.56	1.61		

COPIES TO:

sampling
WELL ~~DEVELOPMENT~~ AND STABILIZATION FORM

PROJECT NAME: San Juan 29-7 Unit 37 PROJECT NO.: 075034

DATE OF WELL ~~DEVELOPMENT~~ sampling: 8-17-11

~~DEVELOPMENT~~ sampling CREW MEMBERS: C. Mathews & K. Blanchard

PURGING METHOD: 1.5" disposable polyethylene bailer

SAMPLE NO.: GW-081711-075034-CFM-003

SAMPLE TIME: Start 11:45 sample @ 1220

WELL INFORMATION

WELL NUMBER: MW-2

WELL TYPE (diameter/material): 2" PVC

MEASURING POINT ELEVATION: 180.94

STATIC WATER DEPTH: 109.10 ELEVATION: 79.84

BOTTOM DEPTH: 120.54 ELEVATION:

WATER COLUMN LENGTH: 11.44

SCREENED INTERVAL:

WELL VOLUME: 11.44 X .16 = 1.83 X 3 = 5.49

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):	gallons	4	4.5	5.0	5.5		
FIELD pH:		6.82	6.80	6.79	6.79		
FIELD TEMPERATURE:	°C	14.80	14.74	14.59	14.79		
FIELD CONDUCTIVITY:	µS/cm	2285	2276	2275	2282		
CLARITY/TURBIDITY VALUES:	TDS g/L	1.844	1.840	1.845	1.847		
COLOR:		lt. brown	lt. brown	lt brown	lt brown		
ODOR:		none	none	none	none		
COMMENTS: ORP		120.4	121.6	122.2	123.3		
DO	mg/L	10.50	7.02	6.56	6.59		

COPIES TO:

Sampling WELL ~~DEVELOPMENT~~ AND STABILIZATION FORM

PROJECT NAME: San Juan 29-7 Unit 37 PROJECT NO.: 075034

DATE OF ~~WELL DEVELOPMENT~~ sampling: 8-17-11

~~DEVELOPMENT~~ sampling CREW MEMBERS: C. Mattews & K. Blanchard

PURGING METHOD: Bailer - polyethylene

SAMPLE NO.: GW-081711-075034-CFM-004

SAMPLE TIME: 004 - 1315 / 1320 - 005

Duplicate: GW-081711-075034-CFM-005

WELL INFORMATION

WELL NUMBER:	MW-1	
WELL TYPE (diameter/material)	2" PVC	
MEASURING POINT ELEVATION:	189.86	
STATIC WATER DEPTH:	108.81	ELEVATION: 81.05
BOTTOM DEPTH:	125.44	ELEVATION:
WATER COLUMN LENGTH:	16.63	
SCREENED INTERVAL:		
WELL VOLUME:	16.63 x .16 = 2.66 x 3 = 7.98	

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons; 1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons; 1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons; 1 meter = 8.2 liters

* Will be unable to collect parameters, well dry @ 5.5 gallons @ 1300 will wait for re-charge

UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume): gallons						
FIELD pH:						
FIELD TEMPERATURE: °C						
FIELD CONDUCTIVITY: us/cm						
CLARITY/~~TURBIDITY VALUES:~~ TDS g/L						
COLOR:						
ODOR:						
COMMENTS:						

COPIES TO:

Well recharged enough to collect samples in about 15 minutes.

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 unit 37 JOB# 05034

SAMPLE ID: GW-05034-101811-CE-MW1 WELL# MW-1

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
10.17.11	10.18.11	1900	2.65	4 (dry)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	—	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 108.87 (feet) WELL ELEVATION 189.86 (feet)

WELL DEPTH 125. (feet) GROUNDWATER ELEVATION 80.99 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
17.81 (°C)	7.22 (std)	1.918 (g/L)	2516 (µS/cm)	218.5 (mV)	4 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Silty ODOR: None COLOR: light tan SHEEN Y/N No

WEATHER CONDITIONS: TEMPERATURE 60° WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

10.18.11 (DATE) Christine Mathews (PRINT) Christine Mathews (SIGNATURE)

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 unit 37 JOB# 07503A

SAMPLE ID: GW-07503A-10811-CE-MW-2 WELL# MW-2

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
10·17·11	10·18·11	1310	1.83	5.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	—	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 109.13 (feet) WELL ELEVATION 188.94 (feet)

WELL DEPTH 120. (feet) GROUNDWATER ELEVATION 79.81 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.27 (°C)	7.08 (std)	1.500 (g/L)	1933 (µS/cm)	183.8 (mV)	5.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: None COLOR: light tan SHEEN Y/N No

WEATHER CONDITIONS: TEMPERATURE 60° WINDY Y/(N) PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

10·18·11 Christine Mathews [signature]

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 unit 37 JOB# 075034

SAMPLE ID: GW-075034-101811-CE-MW-3 WELL# MW-3

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
10.17.11	10.18.11	1300	1.99	6

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	—	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 109.37 (feet) WELL ELEVATION 188.35 (feet)

WELL DEPTH 120. (feet) GROUNDWATER ELEVATION 78.98 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.98 (°C)	7.18 (std)	1.471 (g/L)	1873 (µS/cm)	130.6 (mV)	6 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Silty ODOR: None COLOR: Light tan SHEEN Y/(N) N

WEATHER CONDITIONS: TEMPERATURE 50° WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

10.18.11 (DATE) Christine Mathews (PRINT) (SIGNATURE)

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 Unit 37 JOB# 075034

SAMPLE ID: GW-075034-101811-CE-MW-4 WELL# MW-4

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
10.17.11	10.18.11	1325	1.96	6

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	—	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 111.16 (feet) WELL ELEVATION 198.16 (feet)

WELL DEPTH 119.99 (feet) GROUNDWATER ELEVATION 87.00 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.12 (°C)	7.24 (std)	1.043 (g/L)	1927 (µS/cm)	224.5 (mV)	6 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: silty ODOR: None. COLOR: light tan SHEEN Y/N NO

WEATHER CONDITIONS: TEMPERATURE 60° WINDY Y/N NO PRECIPITATION Y/N (IF Y TYPE) NO

SPECIFIC COMMENTS:

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

10.18.11 DATE | Christine Mathews PRINT | Christine Mathews SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 Unit 87 JOB# 07003A

SAMPLE ID: GW-07003A-101811-E-MW-5 WELL# MW-5

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
10.17.11	10.18.11	1200	0.20	0.62

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	—	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 118.06 (feet) WELL ELEVATION — (feet)

WELL DEPTH 119.44 (feet) GROUNDWATER ELEVATION — (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
17.65 (°C)	6.13 (std)	1.783 (g/L)	2367 (µS/cm)	167.5 (mV)	0.6 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Silty ~~ODOR:~~ Color: light tan ~~COLOR:~~ odor None SHEEN Y/N None

WEATHER CONDITIONS: TEMPERATURE 60° WINDY Y/N NO PRECIPITATION Y/N (IF Y TYPE) No

SPECIFIC COMMENTS:

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

10.18.11 Christine Mathews [signature]

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 Unit 37 JOB# 675034

SAMPLE ID: GW-075034-10B11-CE-MW-6 WELL# MW-6

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
10.17.11	10.18.11	1240	1.672	5.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 109.55 (feet) WELL ELEVATION (feet)

WELL DEPTH 120 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
(°C)	(std)	(g/L)	(µS/cm)	(mV)	5.25 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Silty ODOR: None COLOR: light tan SHEEN Y/N NO

WEATHER CONDITIONS: TEMPERATURE 60° WINDY Y/N NO PRECIPITATION Y/N (IF Y TYPE) NO

SPECIFIC COMMENTS:

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

10.18.11 Christine Mathews [signature]

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 unit 37 JOB# 075034

SAMPLE ID: GW-075034-101811-CE-MW-7 WELL# MW-7

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
10.17.11	10.18.11	1340	0.848	2.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	—	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 119.70 (feet) WELL ELEVATION (feet)

WELL DEPTH 125 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
17.11 (°C)	7.22 (std)	1.918 (g/L)	2516 (µS/cm)	218.5 (mV)	2.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Silty ODOR: None COLOR: light tan SHEEN Y/N NO

WEATHER CONDITIONS: TEMPERATURE 60° WINDY Y/N NO PRECIPITATION Y/N (IF Y TYPE) NO

SPECIFIC COMMENTS:

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

10.18.11 DATE | Christine Mathews PRINT | SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 Unit 37 JOB# 075034

SAMPLE ID: GW-075034-DA11-EE-MW-8 WELL# MW-8

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
10.18.11	10.19.11	1430	—	—

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	—	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER — (feet) WELL ELEVATION — (feet)

WELL DEPTH — (feet) GROUNDWATER ELEVATION — (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
21.93 (°C)	7.07 (std)	1.814 (g/L)	2625 (µS/cm)	137.4 (mV)	20 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: light brown/salty ODOR: None COLOR: light brown SHEEN Y/N No

WEATHER CONDITIONS: TEMPERATURE 000 WINDY Y/N No PRECIPITATION Y/N (IF Y TYPE) No

SPECIFIC COMMENTS: well purged of 20 gallons for development purposes on 10.18.11 by EDI.

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

10.19.11 DATE — Christine Mathews PRINT — SIGNATURE