3R - 429

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Martin 34 No. 2
2012 Quarterly Groundwater Monitoring Report

API# 30-045-08934
NMOCD# 3R-429

Prepared for: ConocoPhillips Company
Risk Management and Remediation

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July 2013 • #075035
Report Number:3

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1.0 INTRODUCTION

This report details the results of quarterly groundwater monitoring events conducted by Conestoga-Rovers & Associates, Inc. (CRA) on March 8, 2012 at the ConocoPhillips Company (ConocoPhillips) Martin 34 No. 2 natural gas well site (Site). The Site is located in Section 34, Township 30N, Range 11W, San Juan County, New Mexico, near the intersection of US Highway 550 and Utah Road (**Figure 1**). A Site detail map is included as **Figure 2**.

1.1 SITE BACKGROUND

The properties in the vicinity of the Site are privately owned. The historical summary for the Site is detailed below, and is also included as **Table 1**.

Hydrocarbon impacts were discovered during production equipment upgrade and relocation activities at the Site during December 2010. During remedial excavation activities conducted in January 2011, Brandon Powell of the New Mexico Oil Conservation Division (NMOCD) requested that the excavation of the hydrocarbon impacted area be extended from 25 feet below ground surface (bgs) to 30 feet bgs in order to continue vertical delineation of soil impacts. Final excavation dimensions measured approximately 30 feet by 75 feet by 30 feet deep when the practical extent of excavation was reached. Analytical results from confirmation soil samples collected by Envirotech, Inc. (Envirotech) from the north wall and both the north and south bottoms of the excavation indicated hydrocarbon concentrations exceeding NMOCD Site soil action limits. The excavation was subsequently backfilled.

On March 1st and 2nd, 2011, Tetra Tech, Inc. (Tetra Tech) supervised the completion of three soil borings, B-1, B-2 and B-3, using a truck-mounted, direct-push Geoprobe® rig to conduct soil and groundwater sampling in and around the former excavation. Groundwater was encountered at approximately 40 feet bgs in boring B-2 located upgradient and in B-3 located downgradient of the former condensate tank location. The saturated interval in soil borings B-2 and B-3 corresponded with a slightly damp interval in boring B-1 located in the center of the former excavation. Because the interval was slightly damp, not wet in B-1, it was not considered water-bearing at the time of advancement. The Geoprobe® rig encountered refusal at a hard, dense, dry clay layer directly below the damp interval in this boring. Photo-ionization detector (PID) results decreased from 1,315 parts per million (ppm) in the interval above the dry clay to 20 ppm in the dry layer.

Analytical results for the groundwater samples collected from the water-bearing borings exceeded the New Mexico Water Quality Control Commission (NMWQCC) standards for chloride, benzene, toluene, ethylbenzene, and xylenes (BTEX). Based on these results, it was determined that further investigation was needed at the Site.

On June 15, 2011, Site consulting responsibilities were transferred from Tetra Tech to CRA of Albuquerque, NM. To further investigate hydrocarbon impacts to soil and groundwater, CRA supervised the installation of four two-inch diameter polyvinylchloride (PVC) groundwater monitor wells (MW-1, MW-2, MW-3 and MW-4), between July 19th and 22nd, 2011. A baseline groundwater monitoring event was conducted by CRA on July 27th, 2011. On September 30th, 2011 CRA conducted the first quarterly groundwater monitoring event at the Site. Based on analytical results from the baseline and first quarterly groundwater monitoring events, it was concluded that further investigation was necessary.

Between November 9th and 10th, 2011, JR Drilling, LLC (JR Drilling) of Edgewood, New Mexico advanced four soil borings at the Site under the supervision of CRA using a truck-mounted, direct push, Geoprobe® rig: B-4, B-5, B-6, and B-7. Soil borings B-4 and B-5 were advanced on November 9th, 2011 to total depths of 47 feet below ground surface (bgs) and 56.5 feet bgs, respectively. The first observation of groundwater in boring B-4 was recorded at 44 feet bgs. In boring B-5, the first observation of groundwater was recorded at a depth of 52 feet bgs. Borings B-6 and B-7 were advanced on November 10th, 2011 to total depths of 30.5 feet bgs and 38 feet bgs, respectively. Direct push advancement was terminated due to refusal in borings B-6 and B-7 at the completion depth. Groundwater was not encountered in borings B-6 or B-7.

Soil samples were collected from all four soil borings either from the interval directly above groundwater or the deepest interval if groundwater was not encountered. Soil samples collected from B-4, B-5, B-6, and B-7 indicated concentrations below laboratory detection limits and below NMOCD soil action limits for BTEX, total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and TPH diesel range organics (DRO).

Groundwater samples from both B-4 and B-5 indicated concentrations below method detection limits and NMWQCC standards for BTEX, 1,1,2,2–tetrachlorethane, methylene chloride, and naphthalene. Concentrations of fluoride, sulfate, dissolved boron, and TDS were above NMWQCC standards in groundwater from B-4 and B-5. Groundwater from B-5 also contained concentrations of chloride and dissolved manganese above

NMWQCC standards. A summary of groundwater analytical results is presented as **Table 2**.

Between November 28th and December 1st of 2011, CRA supervised the installation of three additional groundwater monitor wells at the Site, MW-5, MW-6 and MW-7.

Soil samples were collected for laboratory analysis from all three of the monitor well soil borings. Results for all soil samples had concentrations of BTEX, TPH GRO, and TPH DRO at levels below NMOCD recommended soil action limits except for the sample collected from MW-6 from 55 to 57 feet bgs, which contained a concentration for total BTEX of 100.74 milligrams per kilogram (mg/kg) and a total TPH concentration of 2304 mg/kg. The NMOCD recommended site-specific soil action limits for total BTEX and total TPH are 50 mg/kg and 100 mg/kg, respectively.

During the drilling of MW-5 it was noted that the water-bearing zone was different than in other areas. It was located at approximately 47 feet bgs, was approximately two feet thick, and was underlain by dry, dense, brown shale. Following monitor well installation, only 0.9 feet of water accumulated in the well overnight.

Boring logs from monitor well installations were used to create generalized geologic cross sections for the Site which are presented in **Figures 3** and **4**.

2.0 GROUNDWATER MONITORING SUMMARY, SAMPLING METHODOLOGY AND RESULTS

2.1 GROUNDWATER MONITORING SUMMARY

Quarterly groundwater quality monitoring events were conducted on March 7th and 8th, June 6th and 7th, September 24th and 25th, and December 19th and 20th, 2012. Prior to collection of groundwater samples from Site monitor wells, depth to groundwater in each well was determined using an oil/water interface probe. The top of casings (TOC) for all Site monitor wells were surveyed on January 24th, 2012 using an arbitrary reference-elevation of 100. Top of casing elevations were used with groundwater levels to develop potentiometric surface maps (**Figures 5, 6, 7,** and **8**). Using these data, groundwater flow direction at the Site is calculated to be toward the south. A summary of groundwater elevation data is included in **Table 4**.

It should be noted that stratigraphic correlation is poor between MW-5 and other Site monitor wells. For this reason, the groundwater elevation for MW-5 was not included in the groundwater potentiometric surface maps.

2.2 GROUNDWATER SAMPLING METHODOLOGY

During the quarterly groundwater monitoring events, Site monitor wells were either bailed dry and allowed to recharge, or purged of at least three casing volumes of groundwater using a 1.5-inch diameter dedicated polyethylene bailer. While bailing each monitor well, groundwater parameters, including temperature, pH, conductivity, oxidation/reduction potential (ORP), and total dissolved solids (TDS), were measured using a YSI 556 multi-parameter sonde. Parameters were recorded along with general observations such as color, odor, and clarity on CRA Well Sampling Field Information Forms (**Appendix A**). Field parameters were not collected from Monitor Wells MW-1 and MW-5 during events where insufficient water columns were present in these wells.

All groundwater samples were collected using dedicated, 1.5-inch, polyethylene bailers and were placed in laboratory prepared bottles, packed on ice, and shipped under chain of custody documentation to Pace Analytical Services, Inc. of Lenexa, Kansas for analysis. Groundwater samples were analyzed for VOCs by EPA Method 5030B/8260; Chloride, Fluoride, and Sulfate by EPA Method 300.0; TDS by SM 2540C; and dissolved iron, dissolved boron, and dissolved manganese by EPA Method 6010.

2.3 MARCH, JUNE, SEPTEMBER, AND DECEMBER 2012 GROUNDWATER MONITORING RESULTS

The NMWQCC mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC). Groundwater quality standards have been set for the protection of human health, domestic water supply, and irrigation use. Exceedences of NMWQCC groundwater quality standards in Site monitor wells during 2012 quarterly groundwater monitoring events are discussed below. Insufficient well volume present in Monitor Wells MW-1 and MW-5 resulted in a limited number of analytes for these wells. The corresponding laboratory analytical reports for 2012 quarterly sampling events, including quality control documentation, are included in **Appendix B**. Groundwater benzene concentration maps for each sampling event are included as **Figures 9, 10, 11,** and **12**. A summary of all groundwater analytical data is included as **Table 3**.

March 2012

Benzene

The groundwater quality standard for benzene is 0.010 milligrams per liter (mg/L). Groundwater collected from Monitor Wells MW-1, MW-2, MW-5, MW-6 and MW-7 contained benzene concentrations of 5.10 mg/L, 0.295 mg/L, 1.20 mg/L, 0.0432mg/L, and 0.0186 mg/L, respectively.

Toluene

The groundwater quality standard for toluene is 0.750 mg/L. Groundwater collected from Monitor Well MW-1 contained a concentration of toluene of 2.49 mg/L.

Xylenes

The groundwater quality standard for total xylenes is 0.620 mg/L. Groundwater samples collected from MW-1 and MW-6 contained total xylenes at concentrations of 9.08 mg/L and 3.32 mg/L, respectively.

Naphthalene

The groundwater quality standard for naphthalene is 0.030 mg/L. Groundwater collected from Monitor Well MW-2 was found to contain naphthalene at a concentration of 0.074 mg/L. Naphthalene was reported by Pace to be below their specified reporting limits for groundwater collected from Monitor Wells

MW-1, MW-6, and MW-7; however, the reporting limits were above the NMWQCC standard.

Dissolved Boron

The groundwater quality standard for dissolved boron is 0.75 mg/L. Groundwater collected from Monitor Wells MW-1, MW-2, MW-3, and MW-7 contained dissolved boron concentrations of 1.10 mg/L, 0.922 mg/L, 0.962 mg/L, and 0.84 mg/L.

Dissolved Manganese

The groundwater quality standard for dissolved manganese is 0.2 mg/L. Groundwater collected from Monitor Wells MW-1, MW-2, MW-3, MW-4, MW-6 and MW-7 contained dissolved manganese concentrations of 3.48 mg/L, 3.76 mg/L, 4.47 mg/L, 8.28 mg/L, 2.53 mg/L, and 4.05 mg/L, respectively.

Dissolved Iron

The groundwater quality standard for dissolved iron is 1.0 mg/L. Groundwater samples collected from Monitor Wells MW-1, MW-3, and MW-4 contained dissolved iron concentrations at 7.34 mg/L, 4.75 mg/L, and 1.04 mg/L, respectively.

Total Dissolved Solids

The NMWQCC groundwater quality standard for TDS is 1,000 mg/L. Groundwater samples collected from all Site monitor wells were found to contain TDS concentrations greater than 1,000 mg/L. TDS values in groundwater samples ranged from 8,520mg/L to 38,400 mg/L.

Sulfate

The NMWQCC groundwater quality standard for sulfate is 600 mg/L. Groundwater samples collected from all Site monitor wells contained sulfate in concentrations greater than 600 mg/L. Sulfate concentrations in groundwater samples ranged from 5,810 to 31,600 mg/L.

Chloride

The groundwater quality standard for chloride is 250 mg/L. Groundwater samples collected from Monitor Wells MW-2, MW-3, MW-4, MW-6, and MW-7 were found to contain chloride in concentrations greater than 250 mg/L.

Chloride concentrations in groundwater samples ranged from 307 mg/L to 456 mg/L.

Fluoride

The groundwater quality standard for fluoride is 1.6 mg/L. Fluoride was reported below the specified reporting limits for groundwater collected from all Site monitor wells; however, the reporting limit was above the NMWQCC standard.

June 2012

Benzene

The groundwater quality standard for benzene is 0.010 milligrams per liter (mg/L). Groundwater collected from Monitor Wells MW-1, MW-2, MW-5, MW-6 and MW-7 contained benzene concentrations of 3.00 mg/L, 0.207 mg/L, 1.03 mg/L, 0.0255 mg/L, and 0.0122 mg/L, respectively.

Toluene

The groundwater quality standard for toluene is 0.750 mg/L. Groundwater collected from Monitor Well MW-1 contained a concentration of toluene of 3.83 mg/L.

Xylenes

The groundwater quality standard for total xylenes is 0.620 mg/L. Groundwater samples collected from MW-1 and MW-6 contained total xylenes at concentrations of 4.05 mg/L and 3.16 mg/L, respectively.

Naphthalene

The groundwater quality standard for naphthalene is 0.030 mg/L. Groundwater collected from Monitor Well MW-6 was found to contain naphthalene at a concentration of 0.034 mg/L.

Dissolved Boron

The groundwater quality standard for dissolved boron is 0.75 mg/L. Groundwater collected from Monitor Wells MW-1, MW-2, MW-3, and MW-7 contained dissolved boron concentrations of 1.00 mg/L, 0.847 mg/L, 0.889 mg/L, and 0.824 mg/L.

Dissolved Manganese

The groundwater quality standard for dissolved manganese is 0.2 mg/L. Groundwater collected from Monitor Wells MW-1, MW-2, MW-3, MW-4, MW-6 and MW-7 contained dissolved manganese concentrations of 2.09 mg/L, 3.88 mg/L, 2.02 mg/L, 5.25 mg/L, 2.01 mg/L, and 3.14 mg/L, respectively.

Dissolved Iron

The groundwater quality standard for dissolved iron is 1.0 mg/L. Groundwater samples from Monitor Wells MW-1, and MW-2 contained dissolved iron concentrations at 5.98 mg/L, and 4.79 mg/L, respectively.

Total Dissolved Solids

The NMWQCC groundwater quality standard for TDS is 1,000 mg/L. Groundwater samples collected from all Site monitor wells were found to contain TDS concentrations greater than 1,000 mg/L. TDS values in groundwater samples ranged from 13,900 mg/L to 40,600 mg/L.

Sulfate

The NMWQCC groundwater quality standard for sulfate is 600 mg/L. Groundwater samples collected from all Site monitor wells were found to contain sulfate in concentrations greater than 600 mg/L. Sulfate concentrations in groundwater samples ranged from 8,010 mg/L to 28,400 mg/L.

Chloride

The groundwater quality standard for chloride is 250 mg/L. Groundwater samples collected from Monitor Wells MW-1, MW-2, MW-3, MW-4, MW-6, and MW-7 were found to contain chloride in concentrations greater than 250 mg/L. Chloride concentrations in groundwater samples ranged from 285 mg/L to 431 mg/L.

September 2012

Benzene

The groundwater quality standard for benzene is 0.010 milligrams per liter (mg/L). Groundwater collected from Monitor Wells MW-1, MW-2, MW-5, MW-6 and MW-7 contained benzene concentrations of 5.040 mg/L, 0.127 mg/L, 1.040 mg/L, 0.0218 mg/L, and 0.0109 mg/L, respectively.

Toluene

The groundwater quality standard for toluene is 0.750 mg/L. Groundwater collected from Monitor Well MW-1 contained a concentration of toluene of 1.660 mg/L.

Xylenes

The groundwater quality standard for total xylenes is 0.620 mg/L. Groundwater samples collected from MW-1 and MW-6 contained total xylenes at concentrations of 8.850 mg/L and 2.920 mg/L, respectively.

Naphthalene

The groundwater quality standard for naphthalene is 0.030 mg/L. Groundwater collected from Monitor Wells MW-1 and MW-2 contained naphthalene at concentrations of 0.0456 mg/L and 0.0583 mg/L.

Dissolved Boron

The groundwater quality standard for dissolved boron is 0.75 mg/L. Groundwater collected from Monitor Wells MW-2 and MW-3 contained dissolved boron concentrations of 1.02 mg/L and 0.986 mg/L, respectively.

Dissolved Manganese

The groundwater quality standard for dissolved manganese is 0.2 mg/L. Groundwater collected from Monitor Wells MW-2, MW-3, MW-4, MW-6 and MW-7 contained dissolved manganese concentrations of 2.30 mg/L, 0.497 mg/L, 5.17 mg/L, 2.19 mg/L, and 4.08 mg/L, respectively.

Dissolved Iron

The groundwater quality standard for dissolved iron is 1.0 mg/L. Groundwater samples collected from Monitor Wells MW-4 and MW-7 contained dissolved iron concentrations at 1.02 mg/L and 1.25 mg/L, respectively.

Total Dissolved Solids

The NMWQCC groundwater quality standard for TDS is 1,000 mg/L. Groundwater samples collected from all Site monitor wells were found to contain TDS concentrations greater than 1,000 mg/L. TDS values in groundwater samples ranged from 11,600 mg/L to 38,900 mg/L.

Sulfate

The NMWQCC groundwater quality standard for sulfate is 600 mg/L. Groundwater samples collected from all Site monitor wells were found to contain sulfate in concentrations greater than 600 mg/L. Sulfate concentrations in groundwater samples ranged from 6,800 mg/L to 25,600 mg/L.

Chloride

The groundwater quality standard for chloride is 250 mg/L. Groundwater samples collected from Monitor Wells MW-1, MW-2, MW-3, MW-4, MW-6, and MW-7 were found to contain chloride in concentrations greater than 250 mg/L. Chloride concentrations in groundwater samples ranged from 266 mg/L to 468 mg/L.

Fluoride

The groundwater quality standard for fluoride is 1.6 mg/L. Groundwater collected from Monitor Well MW-4 contained fluoride at a concentration of 5.8 mg/L. Fluoride was reported below the specified reporting limits for groundwater collected from Monitor Wells MW-1, MW-2, MW-3, MW-5, MW-6, and MW-7; however, the reporting limit was above the NMWQCC standard.

December 2012

Benzene

The groundwater quality standard for benzene is 0.010 milligrams per liter (mg/L). Groundwater collected from Monitor Wells MW-1, MW-2, MW-5, and MW-6 contained benzene concentrations of 3.96 mg/L, 0.202 mg/L, 0.861 mg/L, and 0.0214 mg/L, respectively.

Toluene

The groundwater quality standard for toluene is 0.750 mg/L. Groundwater collected from Monitor Well MW-1 contained a concentration of toluene of 2.57 mg/L.

Xylenes

The groundwater quality standard for total xylenes is 0.620 mg/L. Groundwater samples collected from MW-1 and MW-6 contained total xylenes at concentrations of 6.45 mg/L and 3.30 mg/L, respectively.

Dissolved Boron

The groundwater quality standard for dissolved boron is 0.75 mg/L. Groundwater collected from Monitor Wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7 contained dissolved boron concentrations of 1.23 mg/L, 1.04 mg/L, 1.03 mg/L, 0.808 mg/L, 1.55 mg/L, and 0.803 mg/L, respectively.

Dissolved Manganese

The groundwater quality standard for dissolved manganese is 0.2 mg/L. Groundwater collected from Monitor Wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6 and MW-7 contained dissolved manganese concentrations of 0.886 mg/L, 1.98 mg/L, 0.547 mg/L, 4.84 mg/L, 1.06 mg/L, 2.34 mg/L and 2.42 mg/L, respectively.

Dissolved Iron

The groundwater quality standard for dissolved iron is 1.0 mg/L. Groundwater samples collected from Monitor Wells MW-1, MW-2, and MW-5 contained dissolved iron concentrations at 1.25 mg/L, 1.20 mg/L, and 2.15 mg/L, respectively.

Total Dissolved Solids

The NMWQCC groundwater quality standard for TDS is 1,000 mg/L. Groundwater samples collected from all Site monitor wells were found to contain TDS concentrations greater than 1,000 mg/L. TDS values in groundwater samples ranged from 12,000 mg/L to 36,400 mg/L.

Sulfate

The NMWQCC groundwater quality standard for sulfate is 600 mg/L. Groundwater samples collected from all Site monitor wells were found to contain sulfate in concentrations greater than 600 mg/L. Sulfate concentrations in groundwater samples ranged from 7,090 mg/L to 28,500 mg/L.

Chloride

The groundwater quality standard for chloride is 250 mg/L. Groundwater samples collected from Monitor Wells MW-1, MW-2, MW-3, MW-4, and MW-6 were found to contain chloride in concentrations greater than 250 mg/L. Chloride concentrations in groundwater samples ranged from 301 mg/L to 458 mg/L.

3.0 CONCLUSIONS AND RECOMMENDATIONS

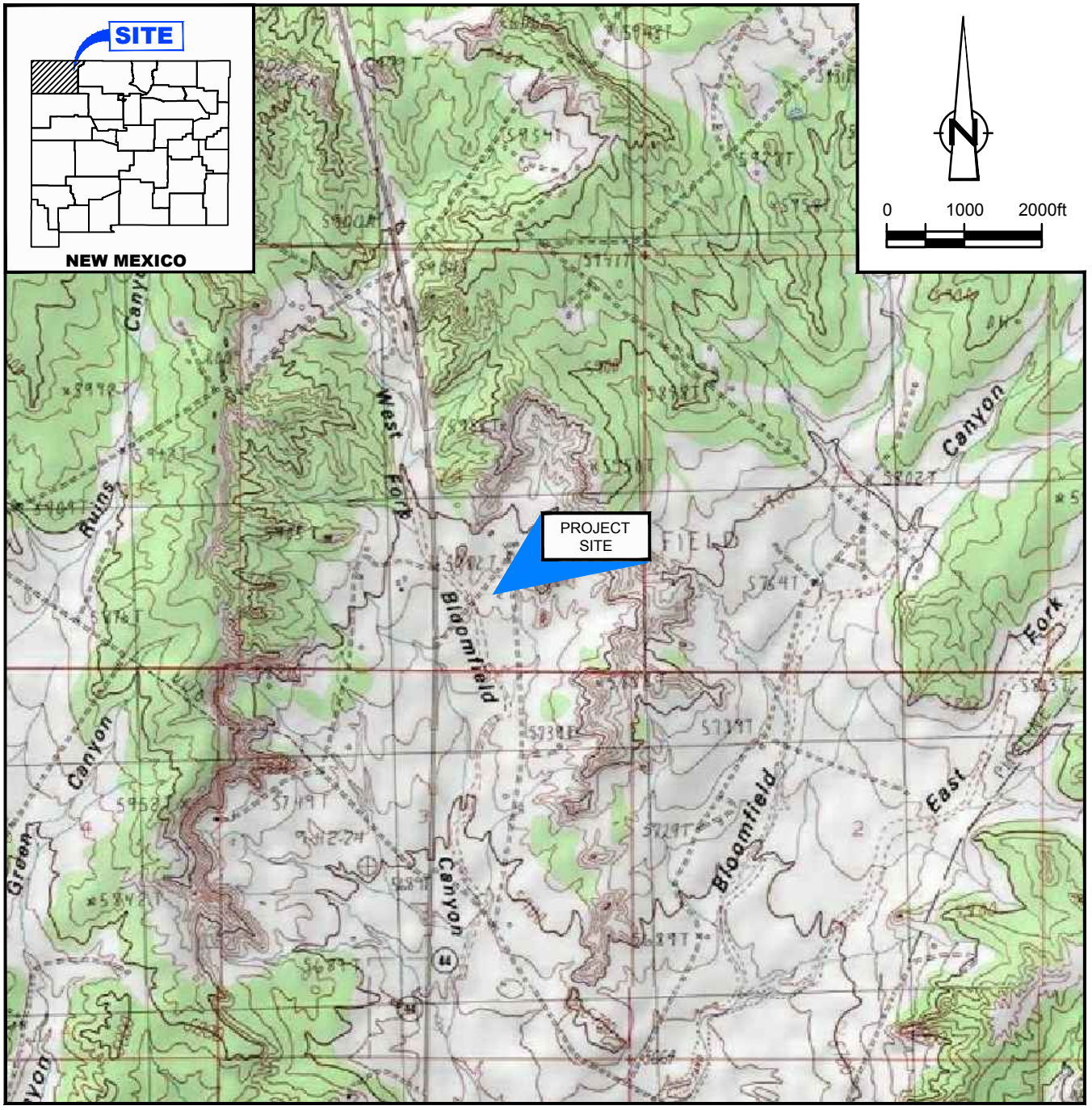
CRA conducted quarterly groundwater monitoring events during March, June, September, and December 2012 at the Martin 34 No. 2 site. CRA recommends the continuation of quarterly groundwater monitoring until concentrations of all monitored groundwater quality parameters are below NMWQCC standards, appear stable or reach regional background levels.

In order to determine background groundwater conditions, CRA recommends the installation of an upgradient monitor well north of MW-5. Installation of this well is planned for the summer of 2013. The proposed location is shown on **Figure 13**.

Groundwater flow direction at the Site has historically been toward the south. CRA will continue to monitor groundwater flow direction at the Site and will note any changes should they occur.

A quarterly groundwater monitoring event took place in March 2013. Additional quarterly groundwater monitoring events are scheduled for June, September and December 2013.

FIGURES



SOURCE: USGS 7.5 MINUTE QUAD
"AZTEC AND BLOOMFIELD, NEW MEXICO"

LAT/LONG: 36.7638° NORTH, 107.9762° WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO WEST

Figure 1

SITE VICINITY MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SEC 12, T27N, R9W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

075035-95(003)GN-DL005 JAN 18/2012

RE: NAIP Aerial Photograph

Figure 2

SITE DETAIL MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

CRA

075035-95(003)GN-DL001 JUL 23/2013

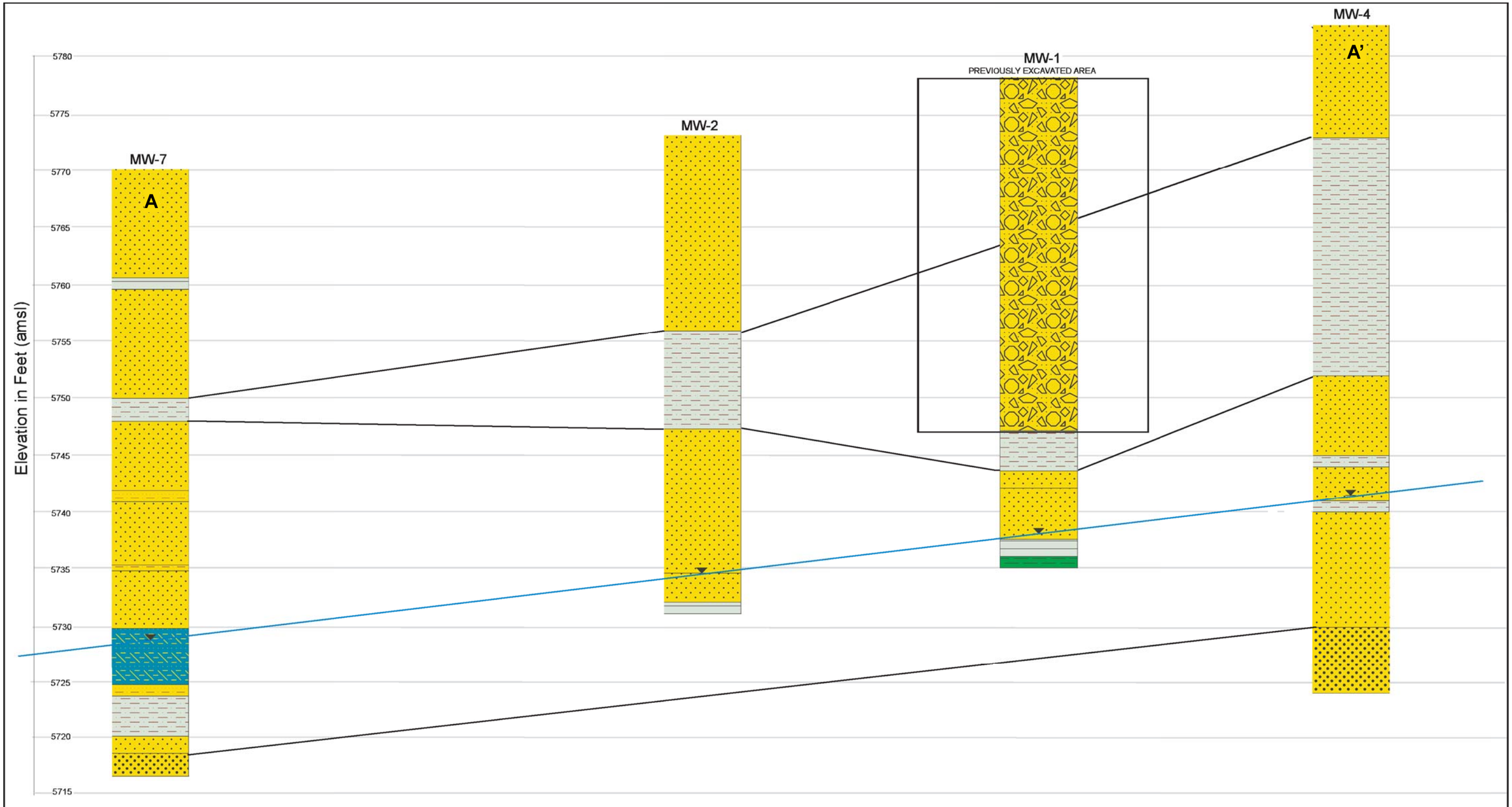


Figure 3
GENERALIZED GEOLOGIC CROSS SECTION A - A'
MARTIN 34 NO. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips company

LEGEND

- Clean Fill
- Sand
- Sand and Silt
- Silt
- Clay
- Clay and Sand
- Shale
- Sandstone
- Groundwater

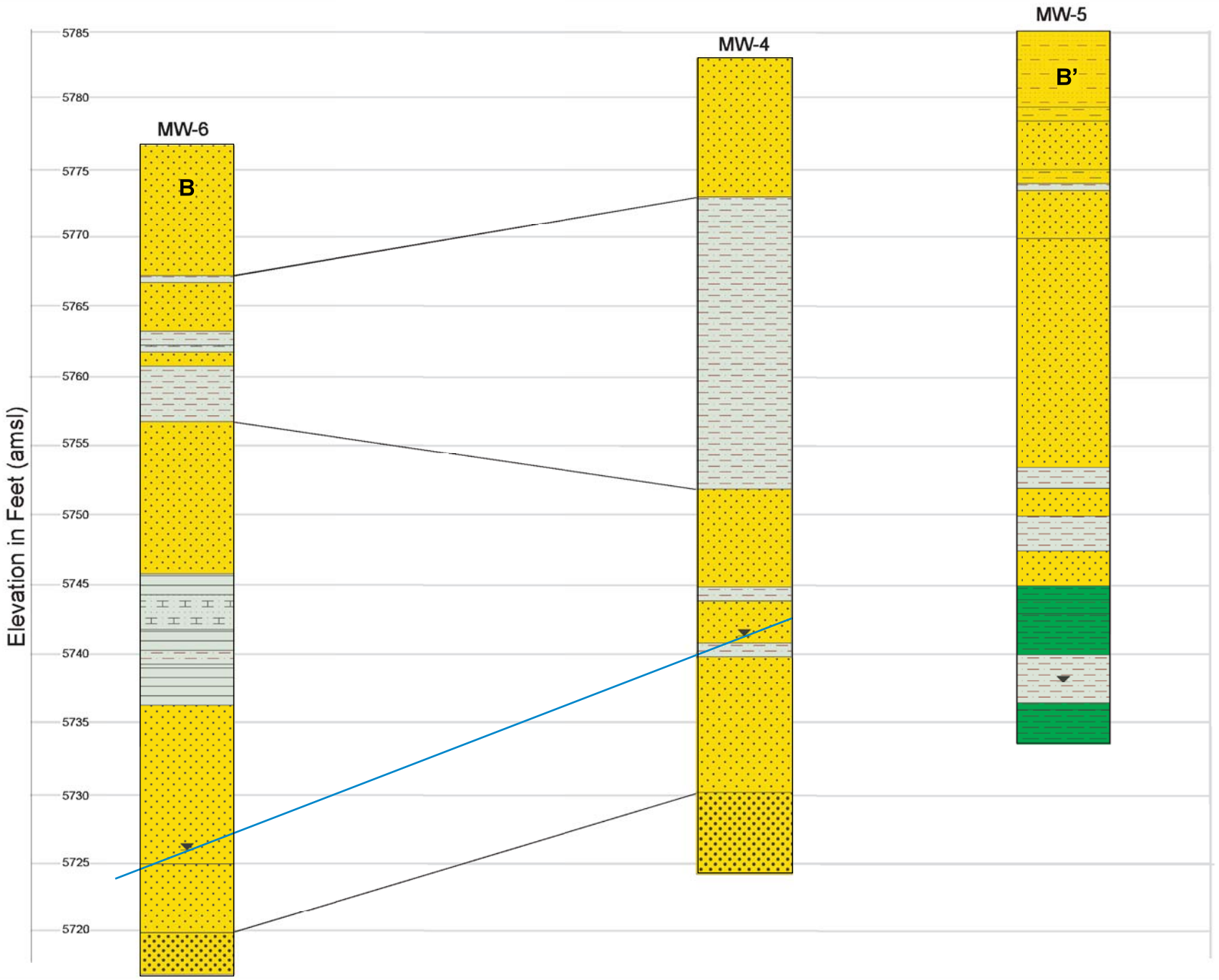


Figure 4
GENERALIZED GEOLOGIC CROSS SECTION B - B'
MARTIN 34 NO. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips company

LEGEND

- Sand and Silt
- Sand
- Silt
- Clay
- Shale
- Sandstone
- Groundwater

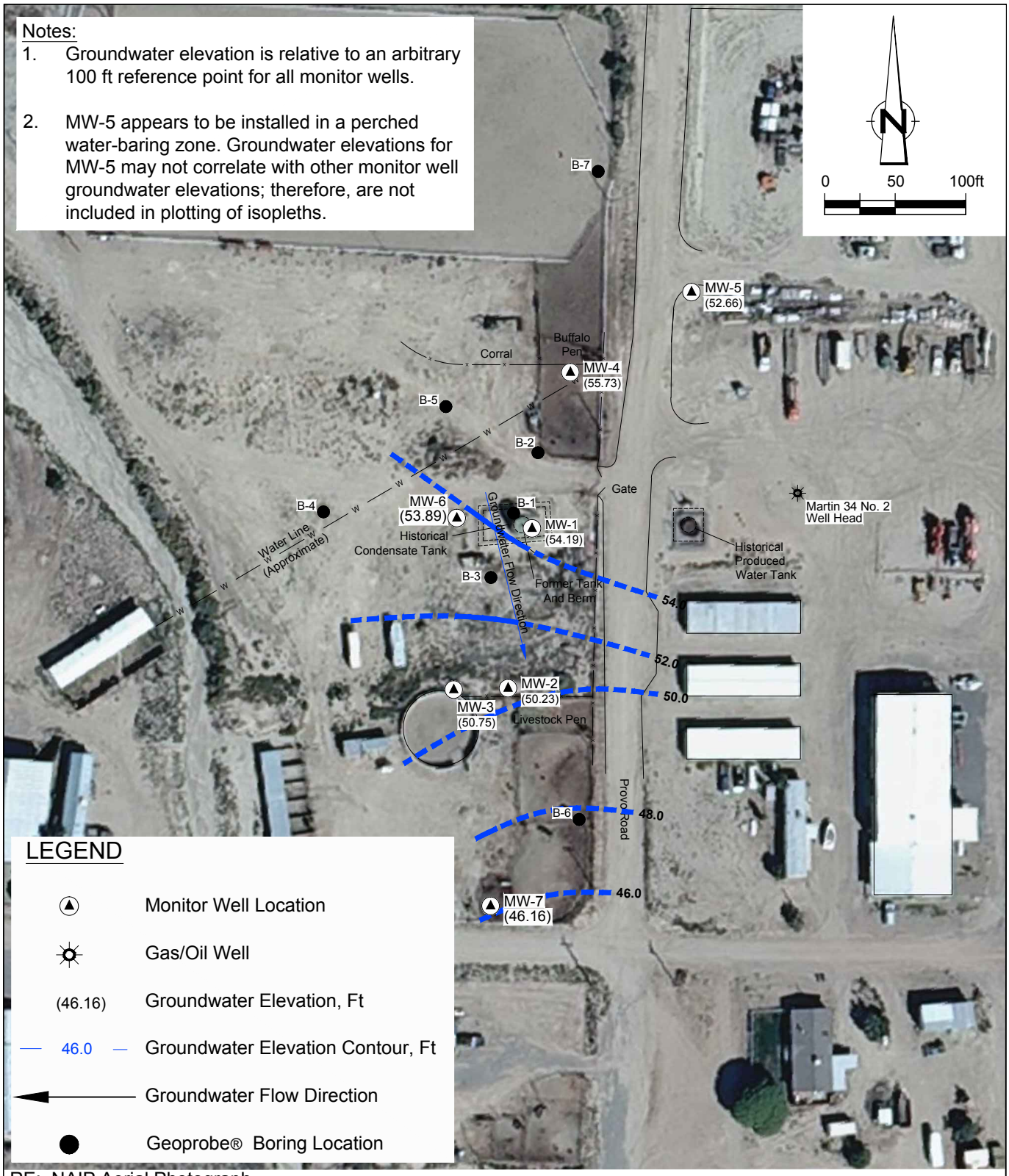


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Figure 5

MARCH 2012 GROUNDWATER POTENTIOMETRIC SURFACE MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

075035-95(003)GN-DL002 JUL 23/2013

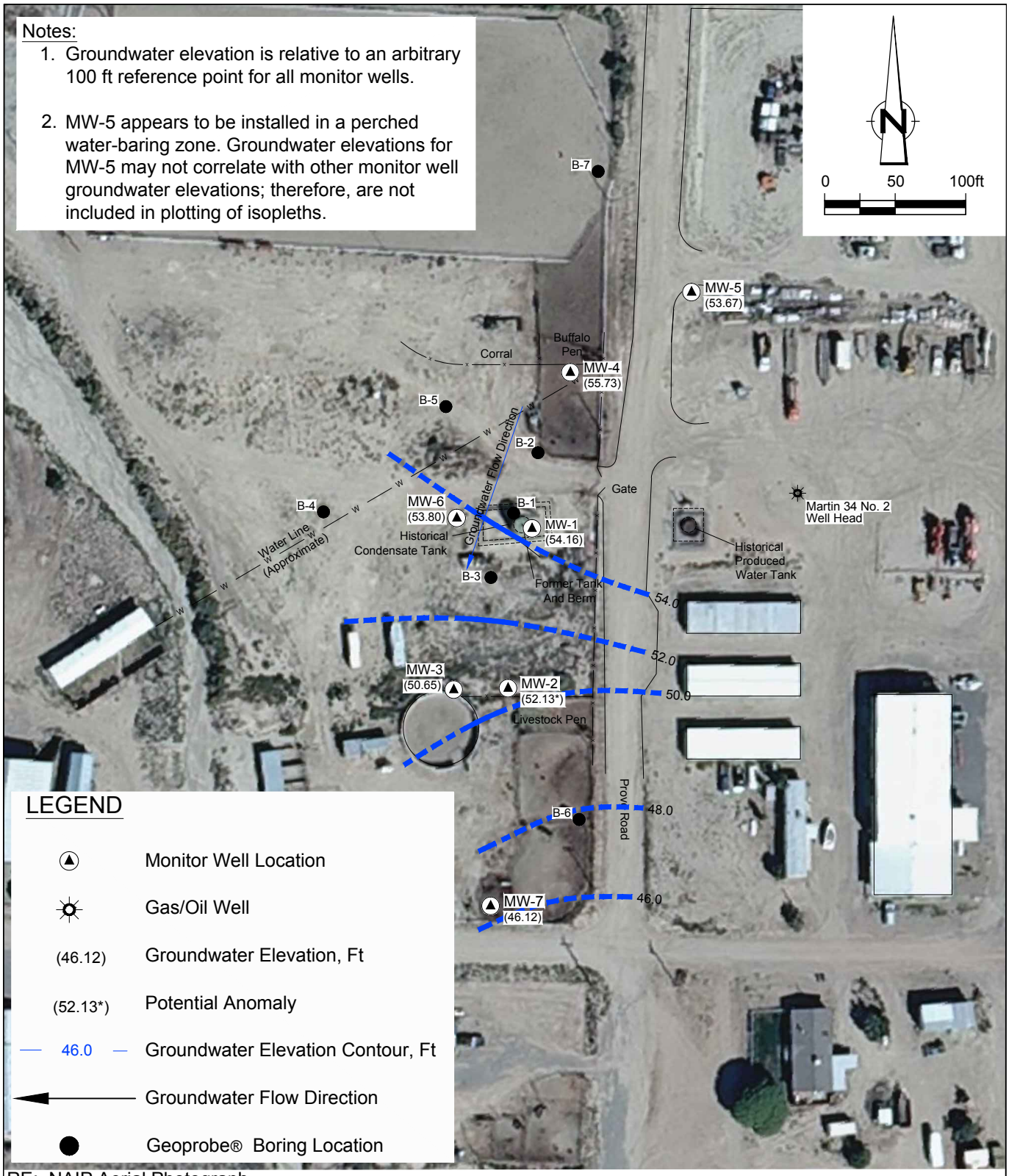

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Figure 6

JUNE 2012 GROUNDWATER POTENTIOMETRIC SURFACE MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

075035-95(003)GN-DL002 JUL 23/2013

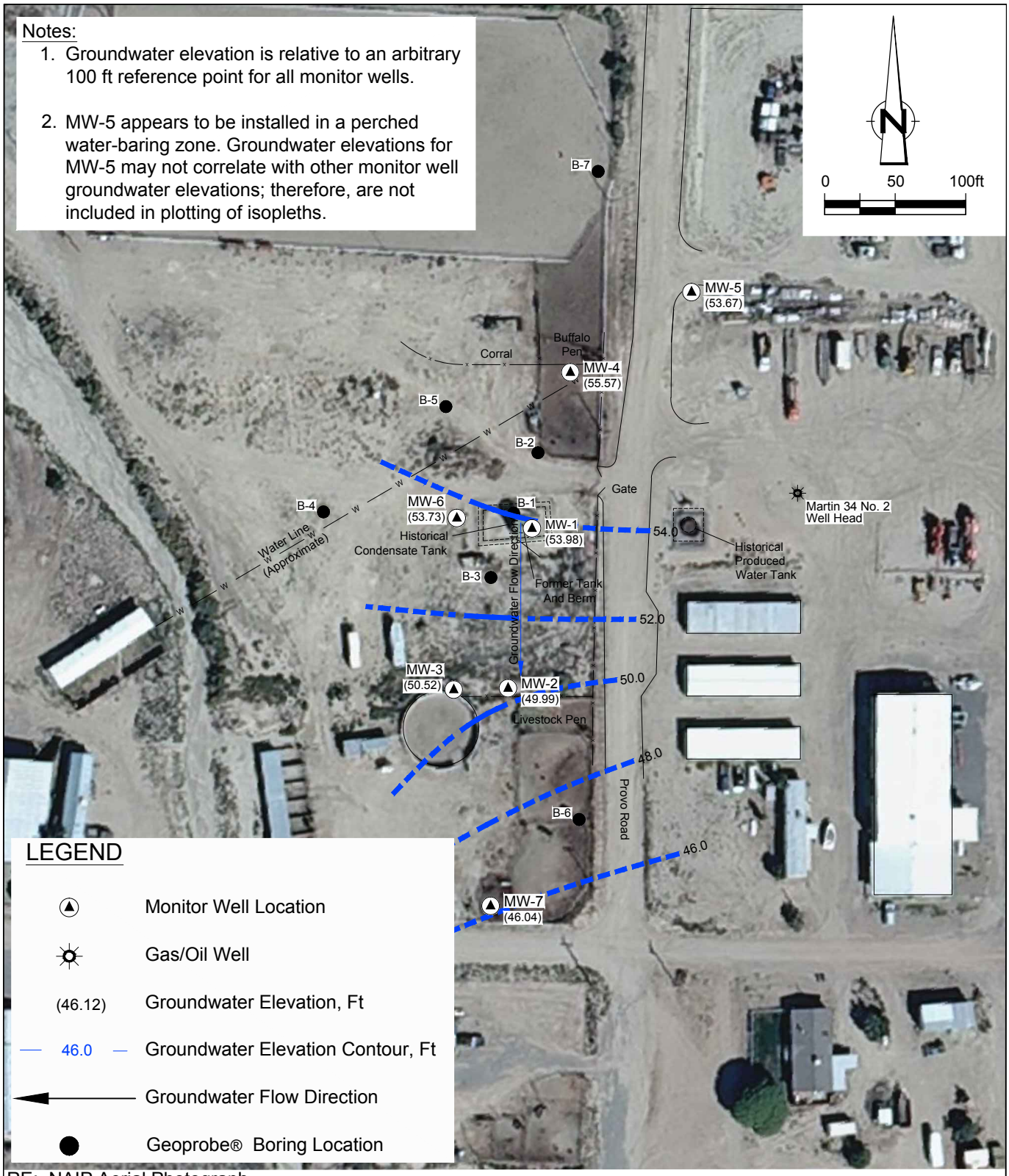

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Figure 7

SEPTEMBER 2012 GROUNDWATER POTENTIOMETRIC SURFACE MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

075035-95(003)GN-DL002 JUL 23/2013

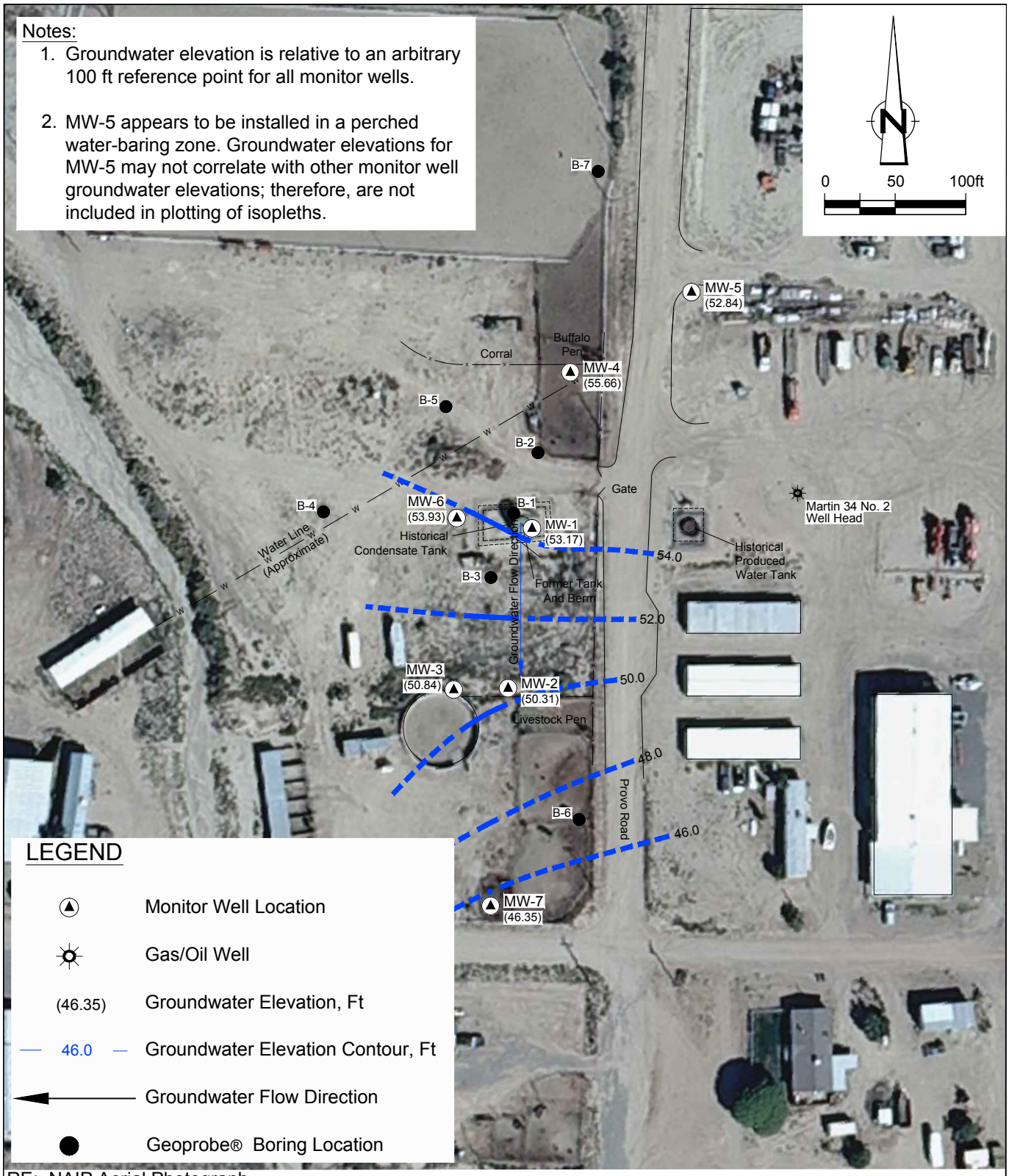

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Figure 8

DECEMBER 2012 GROUNDWATER POTENTIOMETRIC SURFACE MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

075035-95(003)GN-DL002 JUL 23/2013

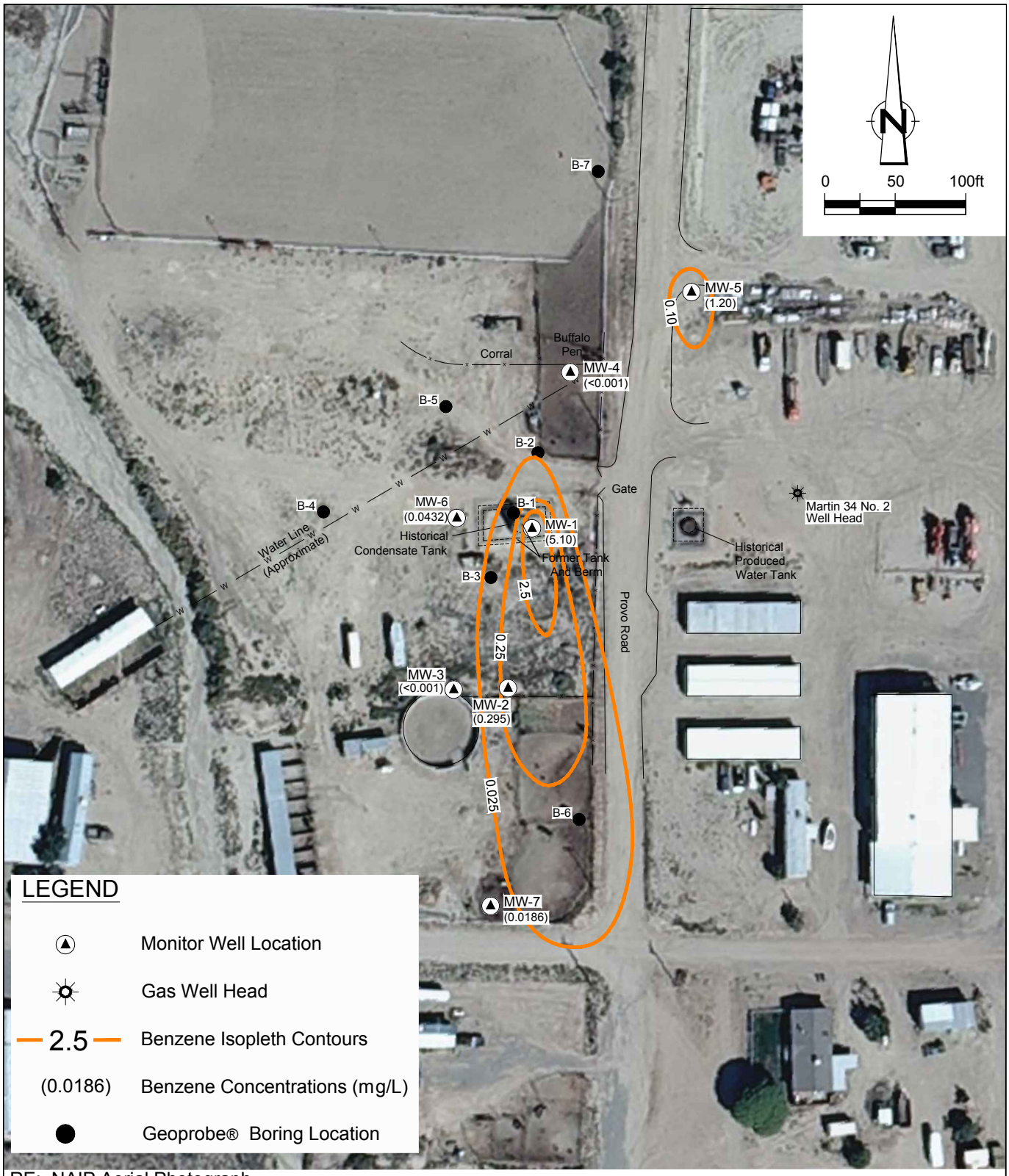

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Figure 9

MARCH 2012 BENZENE CONCENTRATION MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

075035-95(003)GN-DL003 AUG 10/2012

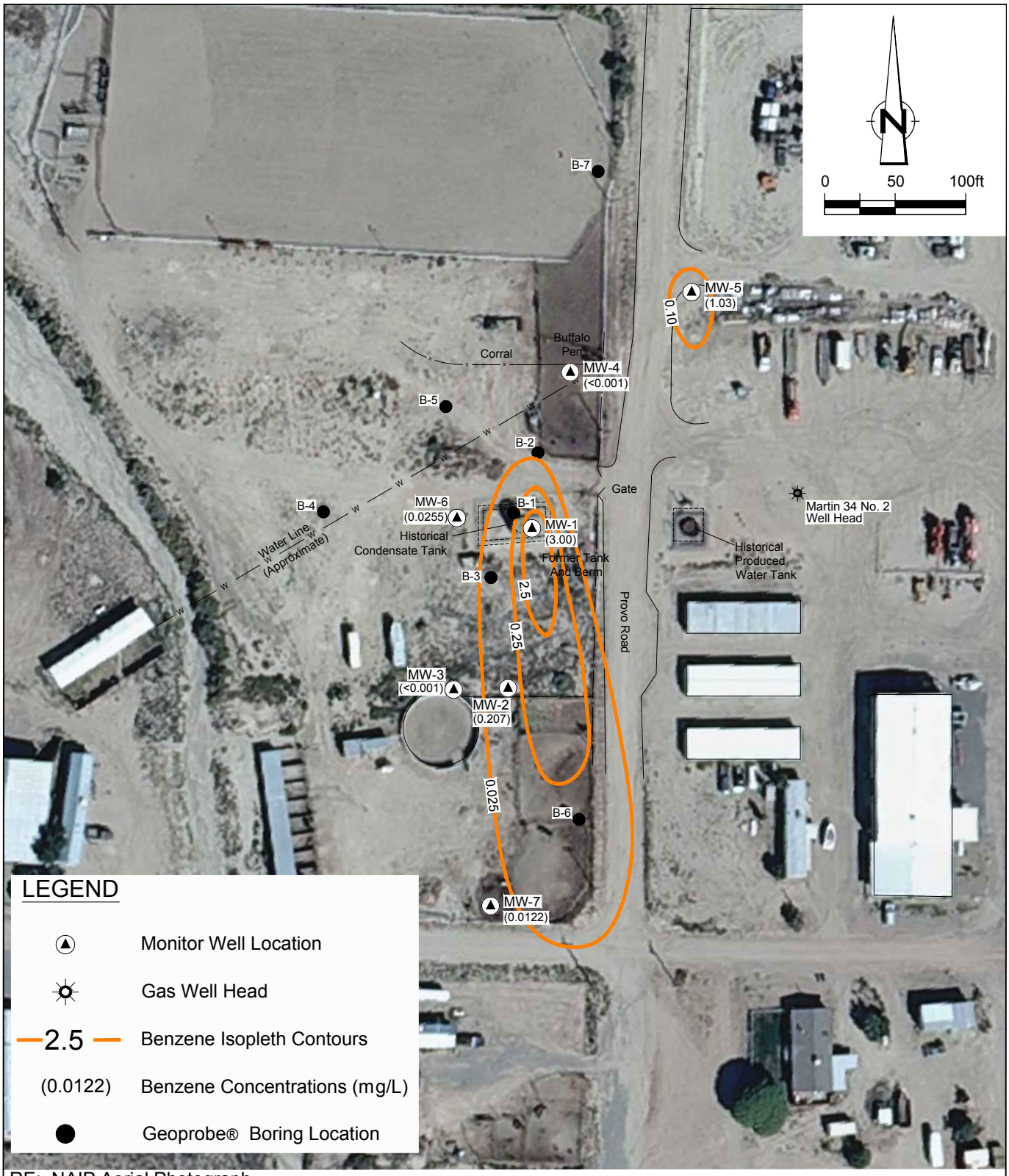

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Figure 10

JUNE 2012 BENZENE CONCENTRATION MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

CRA

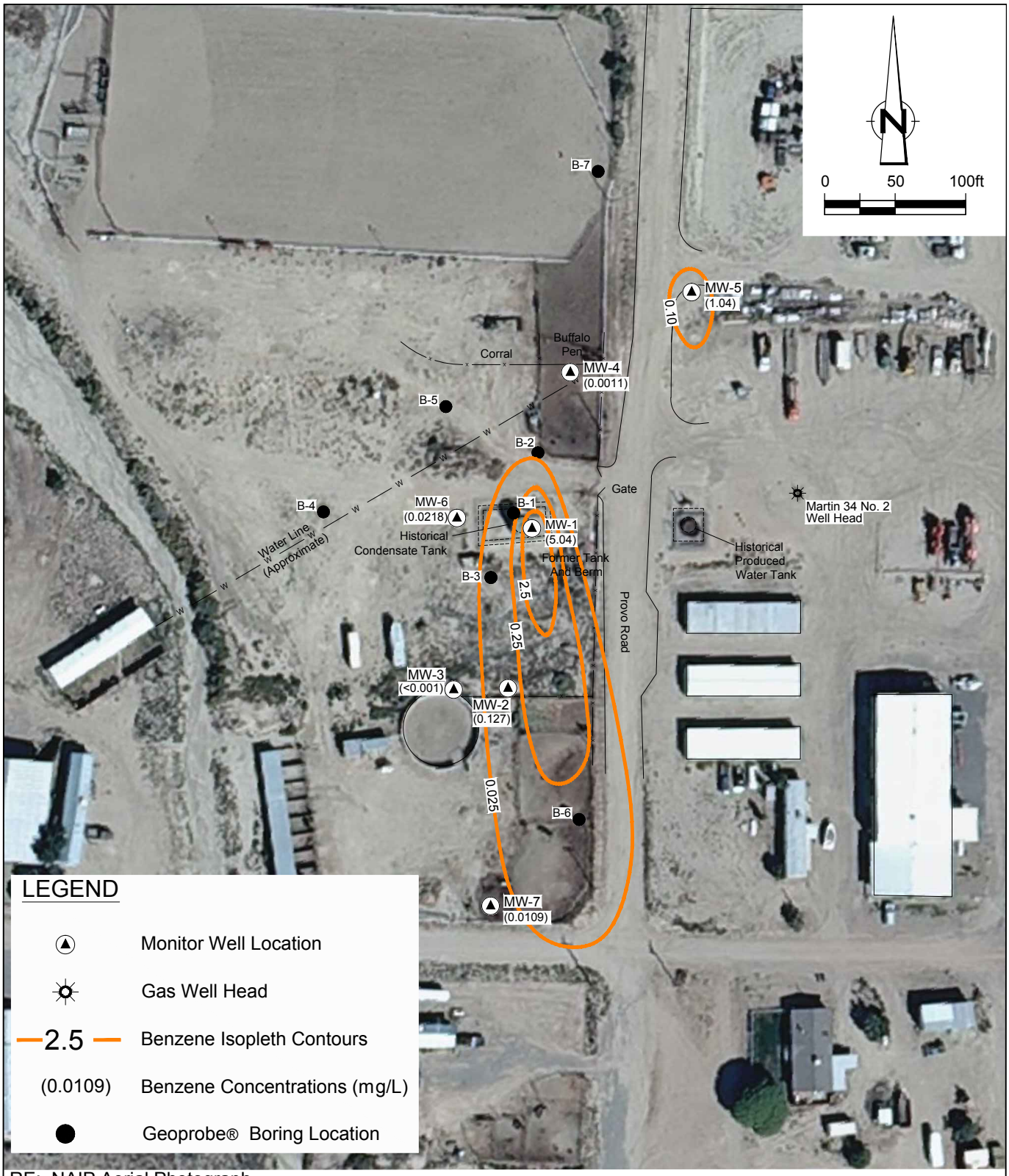

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Figure 11

SEPTEMBER 2012 BENZENE CONCENTRATION MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

CRA

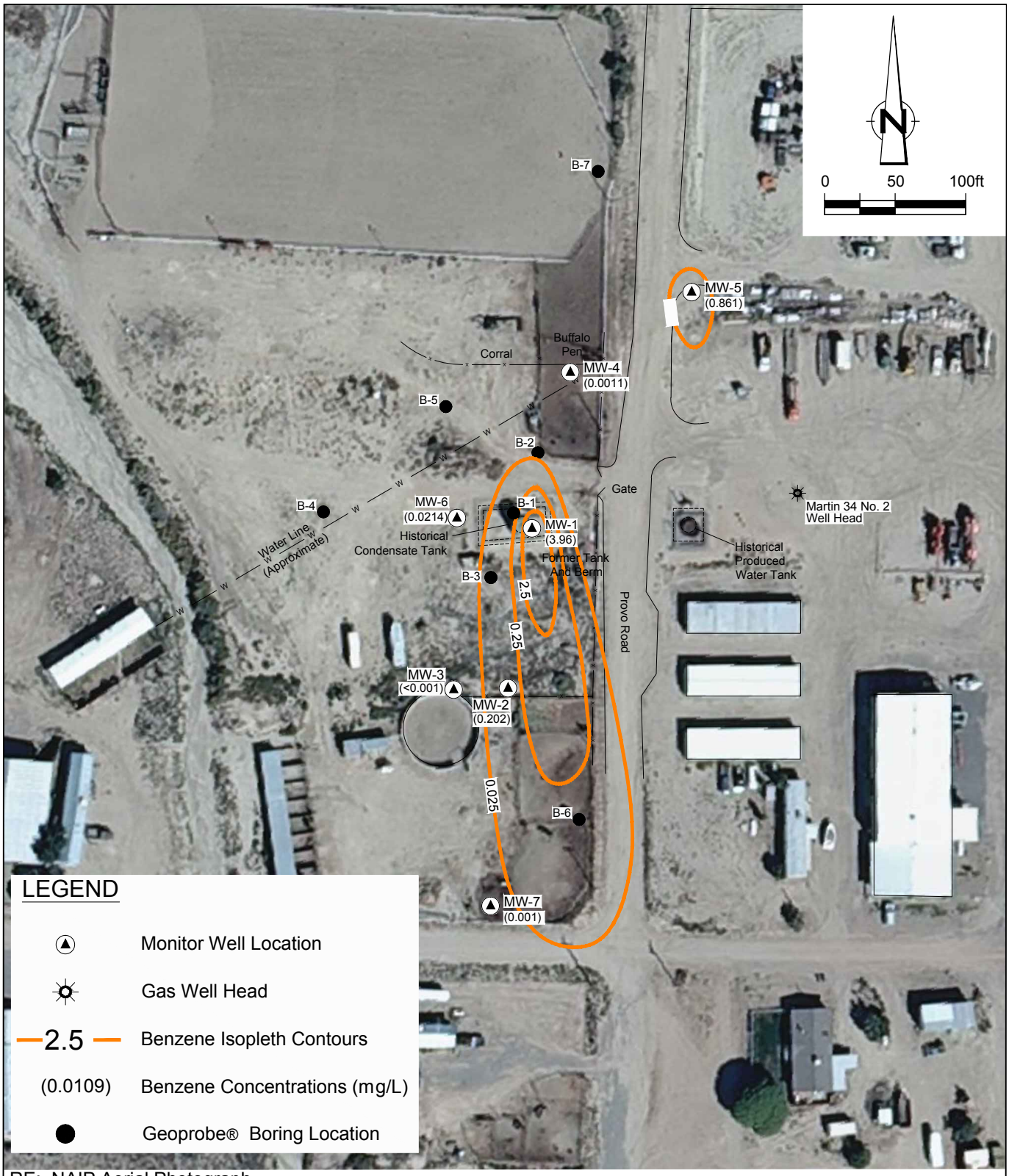

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Figure 12

DECEMBER 2012 BENZENE CONCENTRATION MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

RE: NAIP Aerial Photograph

Figure 13

PROPOSED UPGRADIENT MONITORING WELL LOCATION MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

075035-95(003)GN-DL001 JUL 23/2013

TABLES

TABLE 1

SITE HISTORY TIMELINE
CONOCOPHILLIPS COMPANY
MARTIN 34 No. 2
SAN JUAN COUNTY, NM

Date/Time Period	Event/Action	Description/Comments
December 3, 2010	Initial Site Assessment	ConocoPhillips removed the above ground production tank. The landowner subsequently discovered hydrocarbon-stained soil in the vicinity of the former tank while regrading the area. ConocoPhillips obtained samples of the soil following notification from the landowner.
December 6, 2010	Analytical Results	Laboratory analytical results from soil samples collected on December 3, 2010 revealed hydrocarbons in excess of regulatory standards.
January 12 through 24, 2011	Soil Excavation	Excavation of soil and confirmatory sampling was conducted in the location of the former production tank. Brandon Powell of the New Mexico Oil Conservation Division (NMOCD) requested on January 20th that the excavation be continued to a depth of 30 feet below ground surface (bgs) from a depth of 25 feet bgs. Final excavation dimensions were approximately 60 ft long by 75 feet wide by 30 feet deep. Analytical results from the final round of confirmation sampling of the excavated area indicated that the north wall and both north and south bottom areas of the excavation still contained hydrocarbons in excess of regulatory standards. The lateral extent of the excavation to the north was reached due to the proximity of a roadway. Continued lateral and vertical delineation by means other than excavation would be necessary.
January 31, 2011	Backfilling of Excavation	Backfilling of the excavation began in preparation for delineation by means of soil boring.
February 16, 2011	Meeting between ConocoPhillips and Tetra Tech, Inc.	Tetra Tech, Inc.(Tetra Tech) and ConocoPhillips made a site visit to discuss delineation plans and to meet with the property owner.
March 1 through 2, 2011	Deliniation of Impacts	Tetra Tech supervised the installation of three soil borings using a direct-push Geoprobe® rig. With the exception of the soil sample collected from 38-40 feet below ground surface (bgs) in the boring that was drilled in the area of the former tank, all laboratory soil samples collected were either below laboratory detection limits or below NMOCD recommended action levels. Groundwater was encountered in two borings, located upgradient and downgradient of the former tank, at approximately 40 feet bgs. The saturated interval in these two borings matched an interval that was damp, not wet, in the boring located in the area of the former tank. Groundwater samples collected from the two water-bearing borings exceeded the New Mexico Water Quality Control Commission (NMWQCC) standards for benzene and chloride.
July 18 through 22, 2011	Monitor Well Installation	Conestoga Rovers and Associates (CRA) supervised the installation of four groundwater monitor wells at the Site. Hydrocarbon impacts to soil accompanied by a change in color from light tan/gray to dark gray were encountered at approximately 50 feet bgs in MW-4, the upgradient monitor well and at approximately 38 feet bgs in monitor well MW-2, the downgradient monitor well. Elevated photo-ionization detector (PID) readings were present in Monitor Well MW-1, located in the area of the former tank, from excavation bottom to a saturated seam at approximately 40 feet bgs. Laboratory analytical results on soil samples collected from MW-1, MW-2, and MW-4 were found to contain TPH and BTEX above NMOCD recommended action levels.
July 27, 2011	Baseline Groundwater Monitoring	CRA conducted a baseline groundwater monitoring event for Monitor Wells MW-1 through MW-4. Laboratory analytical results were found to contain BTEX, dissolved iron, dissolved managanese, dissolved boron, chloride, fluoride, sulfate, total dissolved solids (TDS), and naphthalene in exceedance of NMWQCC standards.
September 30, 2011	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.
November 9 through November 10, 2011	Deliniation of Impacts	JR Drilling, under CRA supervision, advanced four soil borings using a direct-push Geoprobe® rig to further deliniate impacts.

TABLE 1

SITE HISTORY TIMELINE
CONOCOPHILLIPS COMPANY
MARTIN 34 No. 2
SAN JUAN COUNTY, NM

Date/Time Period	Event/Action	Description/Comments
November 28 through December 1, 2011	Monitor Well Installation	CRA supervised the installation of three groundwater monitor wells at the Site. Hydrocarbon impacts to soil were noted during field screening of soil from both MW-5 and MW-6 borings. Laboratory analytical results on soil samples collected from MW-6 were found to contain TPH and BTEX above NMOCD recommended action levels.
December 13, 2011	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.
March 8, 2012	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.
June 6, 2012	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.
September 25, 2012	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.
December 19, 2012	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.

TABLE 2

GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
MARTIN 34 No. 2
SAN JUAN COUNTY, NM

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (total) (mg/L)	1,1,2,2-Tetrachloroethane (mg/L)	Methylene chloride (mg/L)	Naphthalene (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Boron (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)	Total Dissolved Solids (TDS) (mg/L)
B-4	GW-075035-110911-B4	11/9/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.01	12.1	**2.2**	**5610**	**0.96**	< 0.05	0.134	**7030**
B-5	GW-075035-110911-B5	11/9/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	0.0012	< 0.01	**509**	**2.2**	**20500**	**0.977**	< 0.05	**5.03**	**26000**
MW-1	GW-075035-072711-CFM-003	7/27/2011	(orig)	**4.46**	**0.782**	**13.3**	**7.85**	**< 0.5**	**0.667**	**< 5**	--	--	--	--	--	--	--
	GW-075035-093011-CM-009	9/30/2011	(orig)	**4.47**	**0.772**	**9.48**	**8.33**	**< 0.02**	**< 0.02**	**< 0.2**	**287**	**< 2.0**	**13300**	**--**	--	--	**21000**
	GW-075036-121311-CB-MW-1	12/13/2011	(orig)	**4.44**	**0.751**	**6.23**	**9.04**	**< 0.1**	< 0.1	**< 1.0**	**270**	**2.1**	**12300**	**1.12**	**8.94**	**4.17**	**20700**
	GW-075036-121311-CB-DUP	12/13/2011	(Duplicate)	**4.31**	**0.812**	**4.98**	**9.57**	--	--	--	--	--	--	--	--	--	--
	GW-075035-3812-CB-MW-1	3/8/2012	(orig)	**5.10**	0.669	**2.49**	**9.08**	**< 0.1**	<0.1	**< 1.0**	--	--	--	**1.10**	**7.34**	**3.48**	**--**
	GW-075035-060712-CB-MW-1	6/7/2012	(orig)	**3.00**	0.300	**3.83**	**4.05**	**< 0.1**	<0.1	**< 1.0**	**285**	< 0.20	**14100**	**1.00**	**5.98**	**2.09**	**25000**
	GW-075035-092512-CM-MW-1	9/25/2012	(orig)	**5.040**	0.626	**1.660**	**8.850**	**< 0.1**	<0.1	**.0456**	**268**	**< 4.0**	**13100**	**--**	**--**	**--**	**24100**
	GW-075035-122012-CM-MW-1	12/20/2012	(orig)	**3.960**	0.336	**2.570**	**6.450**	**<0.05**	<0.05	0.0012	**301**	< 0.20	**15300**	**1.230**	**1.250**	**0.886**	**23100**
MW-2	GW-075035-072711-CFM-001	7/27/2011	(orig)	**0.244**	0.152	< 0.01	0.0814	**0.0191**	0.0165	**< 0.112 / < 0.1**	**330**	**2.9**	**17100**	**1.09**	**3.46**	**2.71**	**26600**
	GW-075035-072711-CFM-002	7/27/2011	(Duplicate)	**0.23**	0.143	< 0.005	0.0784	0.0092	0.0096	**0.0535**	--	--	--	--	--	--	--
	GW-075035-093011-CM-007	9/30/2011	(orig)	**0.197**	0.155	< 0.001	0.112	< 0.001	< 0.001	**0.0727**	**328**	**< 2.0**	**19100**	**1.08**	**3.59**	**2.54**	**26000**
	GW-075035-093011-CM-010	9/30/2011	(Duplicate)	**0.258**	0.189	< 0.005	0.113	< 0.005	0.0144	**0.0715**	--	--	--	--	--	--	--
	GW-075036-121311-CB-MW-2	12/13/2011	(orig)	**0.249**	0.199	0.0266	0.143	**< 0.010**	< 0.010	**< 0.10**	**348**	0.75	**16800**	**1.12**	**4.16**	**2.280**	**26600**
	GW-075035-3812-CB-MW-2	3/8/2012	(orig)	**0.295**	0.221	< 0.005	0.0647	< 0.005	< 0.005	**0.074**	**398**	< 0.010	**23200**	**0.922**	< 0.050	**3.76**	**30200**
	GW-075035-060712-CB-MW-2	6/6/2012	(orig)	**0.207**	0.219	< 0.005	0.0443	< 0.005	< 0.005	0.0238	**400**	< 0.2	**26100**	**0.847**	**4.79**	**3.88**	**28000**
	GW-075035-092512-CM-MW-2	9/25/2012	(orig)	**0.127**	0.161	< 0.005	0.0408	< 0.005	0.0076	**0.0583**	**382**	**< 4.0**	**19900**	**1.020**	0.913	**2.30**	**31100**
	GW-075035-092512-CM-DUP	9/25/2012	(Duplicate)	**0.142**	0.181	< 0.02	0.0356	--	--	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**
	GW-075035-121912-CM-MW-2	12/19/2012	(orig)	**0.202**	0.281	< 0.005	0.081	< 0.005	< 0.005	<0.0005	**423**	<0.2	**22300**	**1.040**	**1.200**	**1.980**	**33200**
MW-3	GW-075035-072711-CFM-005	7/27/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.01 / < 0.0128	**437**	**2.7**	**17600**	**0.976**	0.495	**1.1**	**29200**
	GW-075035-093011-CM-006	9/30/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.01	**399**	**< 2.0**	**19500**	**0.914**	< 0.05	**3.74**	**26800**
	GW-075036-121311-CB-MW-3	12/13/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.01	**375**	< 0.20	**17100**	**0.997**	**1.02**	**0.776**	**27500**
	GW-075035-3812-CB-MW-3	3/8/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.01	**456**	**< 10**	**21500**	**0.962**	**4.75**	**4.47**	**30500**
	GW-075035-060712-CB-MW-3	6/7/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.01	**431**	< 0.20	**23300**	**0.889**	< 0.05	**2.02**	**34100**
	GW-075035-092512-CM-MW-3	9/25/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.01	**468**	**< 4.0**	**18900**	**0.986**	< 0.05	**0.497**	**30000**
	GW-075035-121912-CM-MW-3	12/19/2012	(orig)	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.0005	**458**	<0.2	**21400**	**1.030**	0.152	**0.547**	**30600**
MW-4	GW-075035-072711-CFM-004	7/27/2011	(orig)	0.0021	0.0055	0.0054	0.0705	0.0019	< 0.001	< 0.0111 / < 0.01	**435**	**4.3**	**25200**	0.638	0.677	**10.5**	**40200**
	GW-075035-093011-CM-008	9/30/2011	(orig)	0.0027	0.0037	0.0014	0.0815	< 0.001	< 0.001	< 0.01	**449**	**2.8**	**27400**	0.664	**1.13**	**10.8**	**37200**
	GW-075036-121311-CB-MW-4	12/13/2011	(orig)	0.0024	< 0.001	< 0.001	0.0099	< 0.001	< 0.001	< 0.01	**344**	< 0.20	**26900**	0.651	**1.43**	**8.50**	**40700**
	GW-075035-3812-CB-MW-4	3/8/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.01	**377**	**< 10**	**30200**	0.554	**1.04**	**8.28**	**38400**
	GW-075035-060712-CB-MW-4	6/7/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.01	**378**	1.4	**28400**	0.558	0.983	**5.25**	**40300**
	GW-075035-092512-CM-MW-4	9/25/2012	(orig)	0.0011	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.01	**347**	**5.8**	**25600**	0.704	**1.020**	**5.170**	**38900**
	GW-075035-121912-CM-MW-4	12/19/2012	(orig)	0.0011	<0.001	<0.001	<0.003	<0.001	<0.001	<0.0005	**397**	<0.2	**28500**	**0.808**	0.782	**4.840**	**36400**
MW-5	GW-075036-121311-CB-MW-5	12/13/2011	(orig)	**0.195**	0.0027	< 0.001	0.0081	< 0.001	< 0.001	< 0.01	--	--	--	--	--	--	--
	GW-075035-3812-CB-MW-5	3/8/2012	(orig)	**1.20**	0.0628	< 0.001	0.0613	< 0.001	< 0.001	< 0.01	187	**< 4.0**	**5810**	--	--	--	**8520**
	GW-075035-060712-CB-MW-5	6/7/2012	(orig)	**1.03**	< 0.02	< 0.02	< 0.06	**< 0.02**	< 0.02	**< 0.2**	219	0.69	**8010**	--	--	--	**13900**
	GW-075035-092512-CM-MW-5	9/25/2012	(orig)	**1.040**	.0772	< 0.02	< 0.06	**< 0.02**	.0289	**< 0.2**	202	**< 4.0**	**6800**	--	--	--	**11600**
	GW-075035-121912-CM-MW-5	12/19/2012	(orig)	**0.861**	0.0436	<0.02	<0.06	**<0.02**	<0.02	<0.0005	230	<0.2	**7090**	**1.550**	**2.150**	**1.060**	**12000**
MW-6	GW-075036-121311-CB-MW-6	12/13/2011	(orig)	**0.0247**	0.191	< 0.005	**2.650**	< 0.005	< 0.005	**< 0.05**	**288**	< 0.20	**24900**	0.681	**4.10**	**2.93**	**37800**
	GW-075035-3812-CB-MW-6	3/8/2012	(orig)	**0.0432**	0.190	< 0.01	**3.32**	< 0.01	< 0.01	**< 0.10**	**369**	**< 10**	**31600**	0.622	< 0.05	**2.53**	**37500**
	GW-075035-3812-CB-DUP	3/8/2012	(Duplicate)	**<0.050**	0.199	< 0.05	**3.61**	**< 0.05**	< 0.05	**< 0.5**	--	--	--	--	--	--	--
	GW-075035-060712-CB-MW-6	6/7/2012	(orig)	**0.0255**	0.181	< 0.01	**3.16**	< 0.01	< 0.01	**0.034**	**326**	0.84	**26800**	0.572	< 0.05	**2.01**	**40600**
	GW-075035-060712-CB-DUP	6/7/2012	(Duplicate)	**0.0247**	0.178	< 0.005	**3.22**	< 0.005	< 0.005	**< 0.05**	--	--	--	--	--	--	--
	GW-075035-092512-CM-MW-6	9/25/2012	(orig)	**0.0218**	0.166	< 0.01	**2.92**	< 0.01	< 0.01	0.0237	**345**	**< 4.0**	**25500**	0.656	< 0.05	**2.190**	**37800**
	GW-075035-121912-CM-MW-6	12/19/2012	(orig)	**0.0214**	0.180	<0.01	**3.30**	<0.01	<0.01	0.0023	**392**	<0.2	**27300**	0.687	<0.1	**2.340**	**34600**
	GW-075035-121912-CM-DUP	12/19/2012	(Duplicate)	**0.0219**	0.198	<0.01	**3.53**	**--**	--	--	**--**	**--**	**--**	--	--	**--**	**--**
MW-7	GW-075036-121311-CB-MW-7	12/13/2011	(orig)	**0.0196**	0.351	< 0.001	0.0405	< 0.001	< 0.001	**0.0329**	**269**	1.5	**17800**	**0.772**	0.076	**2.28**	**21400**
	GW-075035-3812-CB-MW-7	3/8/2012	(orig)	**0.0186**	0.357	< 0.005	< 0.015	< 0.005	< 0.005	**< 0.05**	**307**	**< 4.0**	**20600**	**0.840**	0.612	**4.05**	**28400**
	GW-075035-060712-CB-MW-7	6/7/2012	(orig)	**0.0122**	0.333	< 0.005	< 0.015	< 0.005	< 0.005	**<0.05**	**300**	< 0.20	**25900**	**0.824**	0.866	**3.14**	**35700**
	GW-075035-092512-CM-MW-7	9/25/2012	(orig)	**0.0109**	0.426	< 0.005	< 0.015	< 0.005	< 0.005	0.0061	**266**	**< 4.0**	**19500**	**0.895**	**1.250**	**4.080**	**30500**
	GW-075035-121912-CM-MW-7	12/19/2012	(orig)	0.001	0.0397	<0.001	<0.003	<0.001	<0.001	<0.0005	124	0.84	**10300**	**0.803**	0.779	**2.420**	**13800**
NMWQCC Groundwater Quality Standards				**0.01**	**0.75**	**0.75**	**0.62**	**0.01**	**0.1**	**0.03**	**250**	**1.6**	**600**	**0.75**	**1**	**0.2**	**1000**

Notes:
NMWQCC = New Mexico Water Quality Control Commission
mg/L = milligrams per liter (parts per million)
<0.001 = Below laboratory detection limit of 0.001 mg/L
Bold = concentrations that exceed the NMWQCC groundwater quality standard

TABLE 3

MONITOR WELL SPECIFICATIONS AND GROUNDWATER ELEVATION SUMMARY
CONOCOPHILLIPS COMPANY
MARTIN 34 No. 2
SAN JUAN COUNTY, NM

Well ID	Total Depth 2" PVC Casing (ft bgs)	0.010" Slot Screen Interval (ft bgs)	TOC Elevation* (ft)	Date Measured	Depth to Groundwater (ft below TOC)	Relative Groundwater Elevation
MW-1	41	31 - 41	93.09	7/27/2011	40.45	52.64
				9/30/2011	40.23	52.86
			93.28	12/13/2011	39.23	54.05
				3/7/2012	39.09	54.19
				6/6/2012	39.12	54.16
				9/24/2012	39.30	53.98
				12/19/2012	39.11	54.17
MW-2	41.5	31.5 - 41.5	87.45	7/27/2011	37.68	49.77
				9/30/2011	37.68	49.77
			87.59	12/13/2011	37.51	50.08
				3/7/2012	37.36	50.23
				6/6/2012	35.46**	52.13**
				9/24/2012	37.60	49.99
				12/19/2012	37.28	50.31
MW-3	46	31 - 46	87.19	7/27/2011	36.95	50.24
				9/30/2011	36.98	50.21
			87.32	12/13/2011	36.70	50.62
				3/7/2012	36.57	50.75
				6/6/2012	36.67	50.65
				9/24/2012	36.80	50.52
				12/19/2012	36.48	50.84
MW-4	53	38 - 53	99.63	7/27/2011	44.37	55.26
				9/30/2011	44.40	55.23
			99.82	12/13/2011	44.18	55.64
				3/7/2012	44.09	55.73
				6/6/2012	44.09	55.73
				9/24/2012	44.25	55.57
				12/19/2012	44.16	55.66
MW-5	48.5	38.5 - 48.5	98.27	12/13/2011	47.61	50.66
				3/7/2012	45.61	52.66
				6/6/2012	44.60	53.67
				9/24/2012	44.60	53.67
				12/19/2012	45.43	52.84

TABLE 3

MONITOR WELL SPECIFICATIONS AND GROUNDWATER ELEVATION SUMMARY
CONOCOPHILLIPS COMPANY
MARTIN 34 No. 2
SAN JUAN COUNTY, NM

Well ID	Total Depth 2" PVC Casing (ft bgs)	0.010" Slot Screen Interval (ft bgs)	TOC Elevation* (ft)	Date Measured	Depth to Groundwater (ft below TOC)	Relative Groundwater Elevation
MW-6	59.0	44-59	94.8	12/13/2011	41.01	53.79
				3/7/2012	40.91	53.89
				6/6/2012	41.00	53.80
				9/24/2012	41.07	53.73
				12/19/2012	40.87	53.93
MW-7	51.5	36.5-51.5	86.49	12/13/2011	40.49	46.00
				3/7/2012	40.33	46.16
				6/6/2012	40.37	46.12
				9/24/2012	40.45	46.04
				12/19/2012	40.14	46.35

ft = Feet
TOC = Top of casing
bgs = below ground surface
* Elevation relative to an arbitrary reference elevation of 100 feet
** Anomalous data point

APPENDIX A

GROUNDWATER SAMPLING FIELD FORMS

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Martin 34 No. 2 **JOB#** 075035

SAMPLE ID: GW-075035-3812-LB-MW-1 **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)
3.7.12	3.8.12	1040	0.46	1.0*

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	B	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		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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 39.09 (feet) WELL ELEVATION 93.28 (feet)

WELL DEPTH 90.05 (feet) GROUNDWATER ELEVATION 54.05 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
(°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)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: slightly cloudy ODOR: hydrocarbon COLOR: gray SHEEN Y/(N)

WEATHER CONDITIONS: TEMPERATURE ~45° WINDY Y/(N) PRECIPITATION Y/(N) (IF Y TYPE)

SPECIFIC COMMENTS:

.96 x .116 = .153 x 3 = (0.46)

*well bailed dry on 3.7.12.

Insufficient water present for ~~para~~ field parameters

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

3.8.12 Jason Moss

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME: Martin 34 No. 2 JOB# 075034

SAMPLE ID: GW-075034-3812-LB-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)
3.8.12	3.8.12	0950	0.52	1.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	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	L	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	L	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 37.36 (feet) WELL ELEVATION 87.59 (feet)

WELL DEPTH 90.62 (feet) GROUNDWATER ELEVATION 50.23 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.98 (°C)	7.38 (std)	18.22 (g/L)	27935 (µS/cm)	-163.6 (mV)	0.75 (gal)
15.70 (°C)	7.40 (std)	17.92 (g/L)	27694 (µS/cm)	-190.8 (mV)	1.0 (gal)
15.72 (°C)	7.51 (std)	17.78 (g/L)	27515 (µS/cm)	-205.8 (mV)	1.25 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: black particulates ODOR: yes-hydro COLOR: black SHEEN Y/N slight

WEATHER CONDITIONS: TEMPERATURE 35 WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

8.94 x .16 = 1.43 ~~1.29~~

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

3.8.12 Cassie Brown Cassie Brown

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME: Martin 3A No. 2 JOB# 075055

SAMPLE ID: GW-075055-3812-CB-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)
3.8.12	3.8.12	1045	1.43	4.5

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 36.57 (feet) WELL ELEVATION 87.32 (feet)

WELL DEPTH 45.51 (feet) GROUNDWATER ELEVATION 50.75 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
14.42 (°C)	7.39 (std)	17.77 (g/L)	21802 (µS/cm)	-31.3 (mV)	3.5 (gal)
14.91 (°C)	7.46 (std)	17.66 (g/L)	21913 (µS/cm)	-17.1 (mV)	4.0 (gal)
15.06 (°C)	7.57 (std)	17.63 (g/L)	21997 (µS/cm)	1.0 (mV)	4.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: silty/cloudy ODOR: none COLOR: lt. brown SHEEN Y/N NO

WEATHER CONDITIONS: TEMPERATURE 40 WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

3.24 - 1.43 = 1.81

1.43 x 3 = 4.29

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

3.8.12 Cassie Brown Cassie Brown

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME: Martin 34 No. 2 **JOB#** 075235

SAMPLE ID: GW-075035-3812-CB-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)
3.8.12	3.8.12	1200	1.81	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	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	~~A~~ B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER	44.09 (feet)	WELL ELEVATION	99.82 (feet)
WELL DEPTH	55.42 (feet)	GROUNDWATER ELEVATION	55.73 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
~~14.42~~ (°C)	~~7.39~~ (std)	~~11.77~~ (g/L)	~~21802~~ (µS/cm)	~~-313~~ (mV)	~~3.5~~ (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	4.K (gal)
15.91 (°C)	7.86 (std)	22.06 (g/L)	28054 (µS/cm)	-260.7 (mV)	4.5 (gal)
15.90 (°C)	7.85 (std)	21.87 (g/L)	27807 (µS/cm)	-247.5 (mV)	5.0 (gal)
15.96 (°C)	7.88 (std)	21.90 (g/L)	27764 (µS/cm)	-242.9 (mV)	5.5 (gal)

FIELD COMMENTS

SAMPLE APPEARANCE: ~~SLIGHTLY CLOUDY~~ ODOR: ~~SLIGHTLY~~ NONE COLOR: ~~LT. BROWN~~ LT. BROWN SHEEN Y/N ~~N~~ N

WEATHER CONDITIONS: TEMPERATURE 40 WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

11.33 x .16 = 1.81 x 3 = 5.43

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE	PRINT	SIGNATURE
3.8.12	Cassie Brown	Cassie Brown

WELL SAMPLING FIELD INFORMATION FORM

.TE/PROJECT NAME: Martin 34 No. 2 **JOB#** 075035

SAMPLE ID: LW-075035-3812-CB-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)
3.8.12	3.8.12	1240	0.25	0.3

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER	45.61	(feet)	WELL ELEVATION	98.27	(feet)
WELL DEPTH	97.19	(feet)	GROUNDWATER ELEVATION	52.66	(feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.93 (°C)	7.58 (std)	7.365 (g/L)	9364 (µS/cm)	-231.2 (mV)	.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: clear ODOR: None COLOR: clear SHEEN Y/(N)

WEATHER CONDITIONS: TEMPERATURE ~50° WINDY Y/(N) PRECIPITATION Y/(N) (IF Y TYPE)

SPECIFIC COMMENTS:

1.58x.16 = .75x3 = (.75)

Purged 0.75 gallons on 3.7.12. It did not appear that well would bail dry.
Purged 0.3 gallons on 3.8.12 before well bailed down to <3" water. Collected VOC samples.

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

3.8.12 Jason Hoss

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

.TE/PROJECT NAME: Martin 3A No. 2 JOB# 075035

SAMPLE ID: GW-075035-3812-CB-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)
3.8.12	3.8.12	1140	2.72	8.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	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	NA	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 40.91 (feet) WELL ELEVATION 94.80 (feet)

WELL DEPTH 57.94 (feet) GROUNDWATER ELEVATION 53.89 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.73 (°C)	8.04 (std)	21.33 (g/L)	27007 (µS/cm)	-378.8 (mV)	7.50 (gal)
15.76 (°C)	8.04 (std)	21.34 (g/L)	27034 (µS/cm)	-379.3 (mV)	8.00 (gal)
15.84 (°C)	7.96 (std)	21.35 (g/L)	27099 (µS/cm)	-383.8 (mV)	8.50 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: black ODOR: hydrocarbon COLOR: black SHEEN Y/N spotty, discontinuous

WEATHER CONDITIONS: TEMPERATURE ~45 WINDY Y/N PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS:

17.03 x .16 = 2.72 x 3 = 8.17

Drop @ 1145

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

3.8.12 Jason Moss

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

.TE/PROJECT NAME: Martin 34 No. 2 **JOB#** 075035

SAMPLE ID: GW.075035.3812.CB.MW7 **WELL#** MW7

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)
3.8.12	3.8.12	0955	1.86	6.0

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	L	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	L	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 82.33 (feet) WELL ELEVATION 86.49 (feet)

WELL DEPTH 51.97 (feet) GROUNDWATER ELEVATION 46.16 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.27 (°C)	7.49 (std)	14.28 (g/L)	17882 (µS/cm)	-87.6 (mV)	5.0 (gal)
15.34 (°C)	7.38 (std)	16.15 (g/L)	20276 (µS/cm)	-87.9 (mV)	5.5 (gal)
15.39 (°C)	7.34 (std)	16.63 (g/L)	20872 (µS/cm)	-79.3 (mV)	6.0 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: slightly cloudy ODOR: None COLOR: tan SHEEN Y/(N)

WEATHER CONDITIONS: TEMPERATURE ~40° WINDY Y/(N) PRECIPITATION Y/(N) IF Y TYPE)

SPECIFIC COMMENTS:

11.64 x 16 = 1.86 x 3 = 5.58

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

3.8.12 Jason Hines

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Martin 34 No 2 JOB# 075035

SAMPLE ID: GW-075035-060712-CB-MW-1 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)
6.6.12	6.7.12	1500	0.36	0.8 *

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)
SAMPLING DEVICE	G	B - PERISTALTIC PUMP C - BLADDER PUMP	E - PURGE PUMP F - DIPPER BOTTLE	H - WATERRA® X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	B - STAINLESS STEEL C - POLYPROPYLENE	E - POLYETHYLENE X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	B - TYGON C - ROPE	E - POLYETHYLENE F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER	39.12	(feet)	WELL ELEVATION	93.28	(feet)
WELL DEPTH	41.36	(feet)	GROUNDWATER ELEVATION	54.16	(feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
(°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)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: slightly cloudy ODOR: hydrocarbon COLOR: slight gray SHEEN Y/N N

WEATHER CONDITIONS: TEMPERATURE ~90° WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

1.00 * BAILED DRY @ 0.8 GAL

No Field Parameters collected due to low volume in well.

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

6.7.12 Jason Hoes

DATE PRINT SIGNATURE

16 of 3

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-060612-CB-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)
6.6.12	6.6.12	1830	.90	3.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	B - PERISTALTIC PUMP C - BLADDER PUMP	E - PURGE PUMP F - DIPPER BOTTLE	H - WATERRA® X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	B - STAINLESS STEEL C - POLYPROPYLENE	E - POLYETHYLENE X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	B - TYGON C - ROPE	E - POLYETHYLENE F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 35.46 (feet) WELL ELEVATION 87.59 (feet)

WELL DEPTH 41.06 (feet) GROUNDWATER ELEVATION 52.13 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
16.29 (°C)	7.92 (std)	17.82 (g/L)	22851 (µS/cm)	-285.5 (mV)	1.5 (gal)
16.18 (°C)	7.72 (std)	17.62 (g/L)	22544 (µS/cm)	-291.7 (mV)	3.0 (gal)
16.12 (°C)	7.69 (std)	17.51 (g/L)	22365 (µS/cm)	-286.9 (mV)	3.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: black ODOR: hydrocarbon COLOR: black SHEEN Y/(N)

WEATHER CONDITIONS: TEMPERATURE ~80° WIND (Y)/N breezy PRECIPITATION Y/(N) IF Y TYPE)

SPECIFIC COMMENTS:

2.1#

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

6.6.12 Jason Moss

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-060712-CB-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)
6.7.12	6.7.12	1400	1.5	4.5

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	B	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	B	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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 36.67 (feet) WELL ELEVATION 87.32 (feet)

WELL DEPTH 46.05 (feet) GROUNDWATER ELEVATION 50.65 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.99 (°C)	7.55 (std)	18.20 (g/L)	23167 (µS/cm)	-7.8 (mV)	3.5 (gal)
16.16 (°C)	7.63 (std)	18.20 (g/L)	23272 (µS/cm)	6.5 (mV)	4.0 (gal)
16.30 (°C)	7.66 (std)	18.34 (g/L)	23553 (µS/cm)	10.5 (mV)	4.5 (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: milky brown SHEEN Y/(N)

WEATHER CONDITIONS: TEMPERATURE ~90° WINDY Y/(N) PRECIPITATION Y/(N) (IF Y TYPE)

SPECIFIC COMMENTS:

4.5

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

6.7.12 Jason Ross

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

.TE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-070612-CB-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)
6.7.12	6.7.12	1445	1.94	6.0

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 44.09 (feet) WELL ELEVATION 99.82 (feet)

WELL DEPTH 56.23 (feet) GROUNDWATER ELEVATION 55.73 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
16.67 (°C)	7.62 (std)	22.08 (g/L)	28570 (µS/cm)	21.0 (mV)	5 (gal)
16.45 (°C)	7.61 (std)	22.11 (g/L)	28458 (µS/cm)	-48.9 (mV)	5.5 (gal)
16.78 (°C)	7.65 (std)	22.14 (g/L)	29316 (µS/cm)	-52.9 (mV)	6.0 (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: lt. brown SHEEN Y/N N

WEATHER CONDITIONS: TEMPERATURE ~90° WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

5.83

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

6.7.12 DATE | Jason Ploss PRINT | SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

.TE/PROJECT NAME: Martin Bl. No 2 JOB# 075035

SAMPLE ID: GW-075035-060712-CB-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)
6.6.12	6.7.12	1520	0.66	2.25

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER	44.60	(feet)	WELL ELEVATION	98.27	(feet)
WELL DEPTH	48.73	(feet)	GROUNDWATER ELEVATION	53.67	(feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
(°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)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Clear ODOR: None COLOR: Clear SHEEN Y (N) N

WEATHER CONDITIONS: TEMPERATURE ~90° WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

1.98

Bailed dry @ 2.25 gallons on 6.6.12

No Parameters recorded due to poor recharge

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE	PRINT	SIGNATURE
6.7.12	Jason Moss	

WELL SAMPLING FIELD INFORMATION FORM

.TE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-060612-CB-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)
6.6.12	6.6.12	1808	2.81	~~8~~ 8.5

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 41.00 (feet) WELL ELEVATION 94.80 (feet)

WELL DEPTH 58.62 (feet) GROUNDWATER ELEVATION 53.80 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
16.23 (°C)	8.01 (std)	20.32 (g/L)	26030 (µS/cm)	-373.9 (mV)	7.5 (gal)
16.06 (°C)	8.05 (std)	20.24 (g/L)	25837 (µS/cm)	-381.6 (mV)	8.0 (gal)
15.95 (°C)	8.09 (std)	20.29 (g/L)	25807 (µS/cm)	-389.6 (mV)	8.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: black ODOR: hydrocarbon COLOR: black SHEEN Y/(N)

WEATHER CONDITIONS: TEMPERATURE 85° WINDY Y/(N) PRECIPITATION Y/(N) (IF Y TYPE)

SPECIFIC COMMENTS:

8.46

Dup collected at 1810

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

6.6.12 DATE — Jason Ross PRINT — SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

.TE/PROJECT NAME: Martin 34 No2 JOB# 075035

SAMPLE ID: GW-075035-060712-CB-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)
6.7.12	6.7.12	1415	1.96	ML

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 40.37 (feet) WELL ELEVATION 86.49 (feet)

WELL DEPTH 52.65 (feet) GROUNDWATER ELEVATION 46.12 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.79 (°C)	7.15 (std)	17.64 (g/L)	22363 (µS/cm)	-2.6 (mV)	5.0 (gal)
15.67 (°C)	7.15 (std)	17.62 (g/L)	22284 (µS/cm)	-11.7 (mV)	5.5 (gal)
15.63 (°C)	7.15 (std)	17.81 (g/L)	22524 (µS/cm)	-17.8 (mV)	6.0 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: slightly cloudy ODOR: None COLOR: light brown SHEEN Y/(N)

WEATHER CONDITIONS: TEMPERATURE ~90° WINDY Y/(N) PRECIPITATION Y/(N) (IF Y TYPE)

SPECIFIC COMMENTS:

5. Bag

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

6.7.12 Jason Hoss

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-092512-CM-MW 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)
9.24.12	9.25.12	0855	1.26 x3 .3008	.75

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 for metals only

FIELD MEASUREMENTS

DEPTH TO WATER	39.30 (feet)		WELL ELEVATION	93.28 (feet)	
WELL DEPTH	41.18 (feet)		GROUNDWATER ELEVATION	53.98 (feet)	

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
(°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)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Cloudy ODOR: Strong bio COLOR: dark gray SHEEN Y/N (N) Very slight spotty diatoms

WEATHER CONDITIONS: TEMPERATURE 60° 75°/60° WINDY Y/N Strong wind/breezy PRECIPITATION Y/N (IF Y TYPE) Hard rain

SPECIFIC COMMENTS:

9-24-12 - Dry @ .75 gallons

1.26 x3 = 3.78 Sampled on 9.25.12

.3008 x3 = .9024 No parameters collected due to low volume

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

9/25/12 DATE | Christine Mathews PRINT | Christine Mathews SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-092512-CM-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)
9.25.12	9.25.12	0945	0.49	2.25

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 for metals only

FIELD MEASUREMENTS

DEPTH TO WATER 37.60 (feet) WELL ELEVATION 87.59 (feet)

WELL DEPTH 40.65 (feet) GROUNDWATER ELEVATION 49.99 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME	DO mg/L
16.34 (°C)	7.80 (std)	19.63 (g/L)	25235 (µS/cm)	-269.0 (mV)	1.75 (gal)	108.3
16.21 (°C)	7.61 (std)	19.74 (g/L)	25297 (µS/cm)	-286.7 (mV)	2.00 (gal)	17.62
16.29 (°C)	7.52 (std)	19.70 (g/L)	25277 (µS/cm)	-301.7 (mV)	2.25 (gal)	10.42
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: bio odor COLOR: dark gray SHEEN Y/N

WEATHER CONDITIONS: TEMPERATURE 65° WINDY Y/N PRECIPITATION Y/N (IF Y TYPE) slight rain

SPECIFIC COMMENTS:

0.49 x 3 = 1.46

Duplicate collected @ 950

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 9/25/12 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-092512-CM-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)
9.25.12	9.25.12	1130	1.40	4.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 for metals only

FIELD MEASUREMENTS

DEPTH TO WATER: 36.80 (feet) WELL ELEVATION: 87.32 (feet)

WELL DEPTH: 45.55 (feet) GROUNDWATER ELEVATION: 50.52 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME	DO
16.22 (°C)	7.54 (std)	19.67 (g/L)	25244 (µS/cm)	-101.4 (mV)	3.25 (gal)	9.84
16.02 (°C)	7.44 (std)	19.23 (g/L)	24508 (µS/cm)	-85.0 (mV)	3.75 (gal)	13.26
15.95 (°C)	7.40 (std)	19.00 (g/L)	24199 (µS/cm)	-70.9 (mV)	4.25 (gal)	11.45
(°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 brown SHEEN Y/N

WEATHER CONDITIONS: TEMPERATURE 70° WINDY Y/N breezy PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS:

1.40 x 3 = 4.2

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 9/25/12 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-092512-CM-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)
9.25.12	9.25.12	1110	1.83	4.5

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	,45 for metals only

FIELD MEASUREMENTS

DEPTH TO WATER 44.25 (feet) WELL ELEVATION 99.82 (feet)

WELL DEPTH 55.95 (feet) GROUNDWATER ELEVATION 55.57 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME	
16.33 (°C)	7.65 (std)	22.86 (g/L)	29354 (µS/cm)	-218.7 (mV)	3.5 (gal)	1635
16.36 (°C)	7.60 (std)	22.82 (g/L)	29318 (µS/cm)	-218.5 (mV)	3.75 (gal)	27.11
16.41 (°C)	7.57 (std)	22.80 (g/L)	29337 (µS/cm)	-218.4 (mV)	4.0 (gal)	17.30
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: slight bio COLOR: light gray SHEEN Y(N)

WEATHER CONDITIONS: TEMPERATURE 65° WINDY Y/N breezy PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS:

1.83 x 3 = 5.49

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 9/25/12 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

E/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-092512-CM-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)
9.24.12	9.25.12	1315	0.58	~~2.0~~ 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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 micron for metals only

FIELD MEASUREMENTS

DEPTH TO WATER 44.60 (feet) WELL ELEVATION 98.27 (feet)

WELL DEPTH 48.20 (feet) GROUNDWATER ELEVATION 53.67 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
16.34 (°C)	7.08 (std)	~~12007~~ 9.332 (g/L)	12007 (µS/cm)	-115.9 (mV)	2.0 (gal)
16.33 (°C)	7.07 (std)	9.376 (g/L)	12039 (µS/cm)	-123.8 (mV)	2.25 (gal)
16.34 (°C)	7.09 (std)	9.382 (g/L)	12052 (µS/cm)	-124.3 (mV)	2.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

DO

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: bio COLOR: gray SHEEN Y/N (N)

WEATHER CONDITIONS: TEMPERATURE 70 WIND Y/N breezy PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS:

0.58 x 3 = 1.73

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 9/25/12 PRINT Christine Mathews SIGNATURE Christine Mathews

(1)

(2)

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-092512-CM-MW 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)
9.25.12	9.25.12	0920	2.84	8.75

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 for metals only

FIELD MEASUREMENTS

DEPTH TO WATER 41.07 (feet) WELL ELEVATION 94.80 (feet)

WELL DEPTH 58.85 (feet) GROUNDWATER ELEVATION 53.73 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME	DO
15.93 (°C)	7.94 (std)	22.53 (g/L)	28654 (µS/cm)	-385.2 (mV)	7.75 (gal)	5.78
15.96 (°C)	8.02 (std)	22.52 (g/L)	28671 (µS/cm)	-383.4 (mV)	8.25 (gal)	5.62
15.93 (°C)	8.10 (std)	22.52 (g/L)	28642 (µS/cm)	-378.3 (mV)	8.75 (gal)	4.58
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	

FIELD COMMENTS

SAMPLE APPEARANCE: Cloudy ODOR: Strong bio COLOR: dark gray SHEEN Y/N (N) very slight spotty discontinuous

WEATHER CONDITIONS: TEMPERATURE 65° WIND Y/N (N) PRECIPITATION Y/N (IF Y TYPE) (Y) slight rain

SPECIFIC COMMENTS:

2.84 x 3 = 8.53

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS.

DATE 9/25/12 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-092512-CM.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)
9.25.12	09 25 12	1220	1.95	6.00

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 for metals only

FIELD MEASUREMENTS

DEPTH TO WATER: 40.45 (feet) WELL ELEVATION: 86.49 (feet)

WELL DEPTH: 52.65 (feet) GROUNDWATER ELEVATION: 46.04 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME	DO
16.10 (°C)	7.34 (std)	14.38 (g/L)	18373 (µS/cm)	-46.6 (mV)	5.5 ~~5.75~~ (gal)	43.21
16.18 (°C)	7.31 (std)	15.95 (g/L)	20432 (µS/cm)	-55.6 (mV)	~~5.75~~ 6.0 (gal)	17.40
15.89 (°C)	7.26 (std)	18.41 (g/L)	23422 (µS/cm)	-58.6 (mV)	~~6.0~~ 6.25 (gal)	14.44
(°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 brown SHEEN Y/N (N)

WEATHER CONDITIONS: TEMPERATURE 70° WINDY Y/N (N) breezy PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS:

1.95 x 3 = 5.85

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

9/25/12 DATE | Christine Mathews PRINT | Christine Mathews SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Ø Martin 34 No 2 JOB# 075035

SAMPLE ID: GW-075035-122012-CM-MW-1 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)
12/19/12	12/20/12	1345/1030	0.3136	1.0 gal

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER	39.11 (feet)		WELL ELEVATION	93.28 (feet)	
WELL DEPTH	41.07 (feet)		GROUNDWATER ELEVATION	54.17 (feet)	

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
(°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)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: hydrocarbon COLOR: dark gray SHEEN Y/(N) No

WEATHER CONDITIONS: TEMPERATURE 20° WINDY Y/N yes PRECIPITATION Y/N (IF Y TYPE) No

SPECIFIC COMMENTS:

0.3136 x 3 = 0.9408 - completed @ 1030 on 12/20/12

No parameters due to low volume and slow recharge of well.

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

12/20/12 Jason Ross

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-12912-CM-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)
12/19/12	12/19/12	1230	0.542	2.0

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER: 37.28 (feet) WELL ELEVATION: 87.59 (feet)

WELL DEPTH: 40.67 (feet) GROUNDWATER ELEVATION: 50.31 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
14.56 (°C)	7.66 (std)	20.73 (g/L)	25504 (µS/cm)	-280.4 (mV)	1.5 (gal)
14.87 (°C)	7.65 (std)	20.83 (g/L)	25904 (µS/cm)	-289.7 (mV)	2.0 (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: slight hydrocarbon COLOR: gray/brown SHEEN Y/(N) no

WEATHER CONDITIONS: TEMPERATURE ~30° WINDY Y/N yes PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

0.542 x 3 = 1.627

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

12/19/12 DATE | Jason Ploss PRINT | SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-121912-CM-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)
12/19/12	12/19/12	1245	1.462	4.75

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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER: 36.48 (feet) WELL ELEVATION: 87.32 (feet)

WELL DEPTH: 95.62 (feet) GROUNDWATER ELEVATION: 50.84 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
13.86 (°C)	7.73 (std)	21.13 (g/L)	25735 (µS/cm)	-195.0 (mV)	3.75 (gal)
14.66 (°C)	1.57 (std)	20.18 (g/L)	24930 (µS/cm)	-185.7 (mV)	4.25 (gal)
14.71 (°C)	7.58 (std)	20.12 (g/L)	24766 (µS/cm)	-177.1 (mV)	4.75 (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 brown SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 20° WINDY Y/N yes PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

1.462 x 3 = 4.39

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

12/19/12 DATE Jason Hess PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Martin 34 No 2 JOB# 075035

SAMPLE ID: GW-075035-12112-CM-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)
12/19/12	12/19/12	1400	1.798	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	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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER	44.16	(feet)	WELL ELEVATION	99.82	(feet)
WELL DEPTH	55.40	(feet)	GROUNDWATER ELEVATION	55.66	(feet)

TEMPERATURE		pH		TDS		CONDUCTIVITY		ORP		VOLUME	
14.64	(°C)	7.85	(std)	23.92	(g/L)	29534	(µS/cm)	-248.1	(mV)	4.5	(gal)
15.01	(°C)	7.77	(std)	23.99	(g/L)	29861	(µS/cm)	-218.7	(mV)	5.0	(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: ODOR: COLOR: SHEEN Y/N

WEATHER CONDITIONS: TEMPERATURE WINDY Y/N PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS:

1.798 x 3 = 5.40

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

12/19/12 Jason Hess

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Martin 34 No.2 JOB# 075035

SAMPLE ID: GW-075035-12912-CM-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)
12/19/12	12/19/12	1455	0.4432	1.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER: 45.43 (feet) WELL ELEVATION: 98.27 (feet)

WELL DEPTH: 48.20 (feet) GROUNDWATER ELEVATION: 52.84 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
11.64 (°C)	7.54 (std)	12.60 (g/L)	14440 (µS/cm)	-302.4 (mV)	.5 (gal)
13.34 (°C)	7.49 (std)	11.06 (g/L)	13210 (µS/cm)	-295.8 (mV)	.75 (gal)
14.14 (°C)	7.47 (std)	10.42 (g/L)	12688 (µS/cm)	-271.0 (mV)	1.0 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Cloudy ODOR: Slight HC COLOR: dark gray SHEEN Y/N No

WEATHER CONDITIONS: TEMPERATURE 20° WINDY Y/N Yes PRECIPITATION Y/N (IF Y TYPE) No

SPECIFIC COMMENTS:

0.4432 X 3 = 1.33

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

12/19/12 Jason Hoss

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-12912-CM-MW6 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)
12/19/12	12/19/12	1210	2.72	8.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER: 40.87 (feet) WELL ELEVATION: 94.80 (feet)

WELL DEPTH: 57.87 (feet) GROUNDWATER ELEVATION: 53.93 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME	DO%
13.77 (°C)	7.97 (std)	22.79 (g/L)	27686 (µS/cm)	-342.9 (mV)	7.25 (gal)	5.89
13.95 (°C)	7.94 (std)	23.29 (g/L)	28243 (µS/cm)	-342.9 (mV)	7.75 (gal)	4.95
14.27 (°C)	8.02 (std)	23.45 (g/L)	28559 (µS/cm)	-342.5 (mV)	8.25 (gal)	3.73
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: hydrocarbon COLOR: dark gray SHEEN Y/N

WEATHER CONDITIONS: TEMPERATURE 30° WINDY Y/N Yes PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

2.72 x 3 = 8.16 Duplicate @ 1215

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 12/19/12 PRINT Jason Hoss SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

'TE/PROJECT NAME: Martin 34 No. 2 JOB# 075035

SAMPLE ID: GW-075035-121912-CM-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)
12/19/12	12/19/12	1430	1.88	6.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	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	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	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	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER	40.14	(feet)	WELL ELEVATION	86.49	(feet)
WELL DEPTH	51.84	(feet)	GROUNDWATER ELEVATION	46.35	(feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
14.60 (°C)	7.58 (std)	18.53 (g/L)	228930 (µS/cm)	-73.6 (mV)	5.75 (gal)
14.55 (°C)	7.53 (std)	16.20 (g/L)	209845 (µS/cm)	-86.9 (mV)	6.0 (gal)
14.13 (°C)	7.55 (std)	14.68 (g/L)	17949 (µS/cm)	-88.5 (mV)	6.25 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: ODOR: COLOR: SHEEN Y/N

WEATHER CONDITIONS: TEMPERATURE WINDY Y/N PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS:

1.88 X 3 = 5.64

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

12/19/12 Jason Ross

DATE PRINT SIGNATURE

APPENDIX B

GROUNDWATER LABORATORY ANALYTICAL REPORTS

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

March 29, 2012

Cassie Brown
COP Conestoga-Rovers & Associa

,

RE: Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Dear Cassie Brown:
Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Alice Tracy

alice.tracy@pacelabs.com
Project Manager

Enclosures

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

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CERTIFICATIONS

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

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

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SAMPLE SUMMARY

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60117039001	**GW-075085-3812-CB-MW-1**	Water	03/08/12 10:40	03/10/12 09:00
60117039002	**GW-075085-3812-CB-MW-2**	Water	03/08/12 09:50	03/10/12 09:00
60117039003	**GW-075085-3812-CB-MW-3**	Water	03/08/12 10:45	03/10/12 09:00
60117039004	**GW-075085-3812-CB-MW-4**	Water	03/08/12 12:00	03/10/12 09:00
60117039005	**GW-075085-3812-CB-MW-5**	Water	03/08/12 12:40	03/10/12 09:00
60117039006	**GW-075085-3812-CB-MW-6**	Water	03/08/12 11:40	03/10/12 09:00
60117039007	**GW-075085-3812-CB-MW-7**	Water	03/08/12 09:55	03/10/12 09:00
60117039008	**GW-075085-3812-CB-DUP**	Water	03/08/12 11:45	03/10/12 09:00
60117039009	**TRIP BLANK**	Water	03/08/12 00:00	03/10/12 09:00

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SAMPLE ANALYTE COUNT

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60117039001	**GW-075085-3812-CB-MW-1**	EPA 6010	JGP	3
		EPA 5030B/8260	PRG	12
60117039002	**GW-075085-3812-CB-MW-2**	EPA 6010	JGP	3
		EPA 8270 by SIM	JTK	4
		EPA 5030B/8260	PRG	12
		SM 2540C	CMG	1
		EPA 300.0	JML	3
60117039003	**GW-075085-3812-CB-MW-3**	EPA 6010	JGP	3
		EPA 8270 by SIM	JTK	4
		EPA 5030B/8260	PRG	12
		SM 2540C	CMG	1
		EPA 300.0	JML	3
60117039004	**GW-075085-3812-CB-MW-4**	EPA 6010	JGP	3
		EPA 8270 by SIM	JTK	4
		EPA 5030B/8260	JDM	12
		SM 2540C	CMG	1
		EPA 300.0	JML	3
60117039005	**GW-075085-3812-CB-MW-5**	EPA 5030B/8260	JDM, PRG	12
		SM 2540C	CMG	1
		EPA 300.0	JML	3
60117039006	**GW-075085-3812-CB-MW-6**	EPA 6010	JGP	3
		EPA 8270 by SIM	JTK	4
		EPA 5030B/8260	PRG	12
		SM 2540C	CMG	1
		EPA 300.0	JML	3
60117039007	**GW-075085-3812-CB-MW-7**	EPA 6010	JGP	3
		EPA 8270 by SIM	JTK	4
		EPA 5030B/8260	JDM	12
		SM 2540C	CMG	1
		EPA 300.0	JML	3
60117039008	**GW-075085-3812-CB-DUP**	EPA 5030B/8260	PRG	12
60117039009	**TRIP BLANK**	EPA 5030B/8260	PRG	12

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PROJECT NARRATIVE

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: March 29, 2012

General Information:
6 samples were analyzed for EPA 6010. 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 3010 with any exceptions noted below.

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

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

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

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PROJECT NARRATIVE

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Method: **EPA 8270 by SIM**
Description: 8270 MSSV PAH by SIM
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: March 29, 2012

General Information:
5 samples were analyzed for EPA 8270 by SIM. 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 3510 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: MSSV/10125

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

QC Batch: MSSV/10158

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:

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PROJECT NARRATIVE

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: March 29, 2012

General Information:
9 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/44271

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60117231002

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

- MS (Lab ID: 966517)
  - Benzene
- MSD (Lab ID: 966518)
  - Benzene

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

Additional Comments:

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PROJECT NARRATIVE

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: March 29, 2012

Analyte Comments:

QC Batch: MSV/44271

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GW-075085-3812-CB-DUP (Lab ID: 60117039008)
  - 4-Bromofluorobenzene (S)

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PROJECT NARRATIVE

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: March 29, 2012

General Information:
6 samples were analyzed for SM 2540C. 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.

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:

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PROJECT NARRATIVE

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: March 29, 2012

General Information:
6 samples were analyzed for EPA 300.0. 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.

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:

Analyte Comments:

QC Batch: WETA/19623

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GW-075085-3812-CB-MW-2 (Lab ID: 60117039002)
  - Fluoride
- GW-075085-3812-CB-MW-3 (Lab ID: 60117039003)
  - Fluoride
- GW-075085-3812-CB-MW-4 (Lab ID: 60117039004)
  - Fluoride
- GW-075085-3812-CB-MW-5 (Lab ID: 60117039005)
  - Fluoride
- GW-075085-3812-CB-MW-6 (Lab ID: 60117039006)
  - Fluoride
- GW-075085-3812-CB-MW-7 (Lab ID: 60117039007)
  - Fluoride

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

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ANALYTICAL RESULTS

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Sample: GW-075085-3812-CB-MW-1 **Lab ID: 60117039001** Collected: 03/08/12 10:40 Received: 03/10/12 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**1100**	ug/L	500	5	03/14/12 16:35	03/20/12 13:27	7440-42-8	
Iron, Dissolved	**7340**	ug/L	250	5	03/14/12 16:35	03/20/12 13:27	7439-89-6	
Manganese, Dissolved	**3480**	ug/L	25.0	5	03/14/12 16:35	03/20/12 13:27	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**5100**	ug/L	100	100		03/16/12 21:22	71-43-2	
Ethylbenzene	**669**	ug/L	100	100		03/16/12 21:22	100-41-4	
Methylene chloride	ND	ug/L	100	100		03/16/12 21:22	75-09-2	
Naphthalene	ND	ug/L	1000	100		03/16/12 21:22	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		03/16/12 21:22	79-34-5	
Toluene	**2490**	ug/L	100	100		03/16/12 21:22	108-88-3	
Xylene (Total)	**9080**	ug/L	300	100		03/16/12 21:22	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	87-113	100		03/16/12 21:22	460-00-4	
Dibromofluoromethane (S)	106	%	86-112	100		03/16/12 21:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	82-119	100		03/16/12 21:22	17060-07-0	
Toluene-d8 (S)	98	%	90-110	100		03/16/12 21:22	2037-26-5	
Preservation pH	**1.0**		0.10	100		03/16/12 21:22		

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ANALYTICAL RESULTS

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Sample: GW-075085-3812-CB-MW-2 **Lab ID: 60117039002** Collected: 03/08/12 09:50 Received: 03/10/12 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**922**	ug/L	500	5	03/14/12 16:35	03/20/12 13:31	7440-42-8	
Iron, Dissolved	ND	ug/L	50.0	1	03/14/12 16:35	03/20/12 12:54	7439-89-6	
Manganese, Dissolved	**3760**	ug/L	25.0	5	03/14/12 16:35	03/20/12 13:31	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Naphthalene	ND	ug/L	0.50	1	03/20/12 00:00	03/22/12 03:38	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	111	%	42-112	1	03/20/12 00:00	03/22/12 03:38	4165-60-0	
2-Fluorobiphenyl (S)	76	%	44-115	1	03/20/12 00:00	03/22/12 03:38	321-60-8	
Terphenyl-d14 (S)	98	%	46-131	1	03/20/12 00:00	03/22/12 03:38	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**295**	ug/L	5.0	5		03/16/12 21:37	71-43-2	
Ethylbenzene	**221**	ug/L	5.0	5		03/16/12 21:37	100-41-4	
Methylene chloride	ND	ug/L	5.0	5		03/16/12 21:37	75-09-2	
Naphthalene	**74.0**	ug/L	50.0	5		03/16/12 21:37	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		03/16/12 21:37	79-34-5	
Toluene	ND	ug/L	5.0	5		03/16/12 21:37	108-88-3	
Xylene (Total)	**64.7**	ug/L	15.0	5		03/16/12 21:37	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	87-113	5		03/16/12 21:37	460-00-4	
Dibromofluoromethane (S)	106	%	86-112	5		03/16/12 21:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	82-119	5		03/16/12 21:37	17060-07-0	
Toluene-d8 (S)	101	%	90-110	5		03/16/12 21:37	2037-26-5	
Preservation pH	**1.0**		0.10	5		03/16/12 21:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**30200**	mg/L	5.0	1		03/15/12 10:33		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**398**	mg/L	50.0	50		03/27/12 12:54	16887-00-6	
Fluoride	ND	mg/L	10.0	50		03/27/12 12:54	16984-48-8	D3
Sulfate	**23200**	mg/L	2000	2000		03/28/12 08:29	14808-79-8	

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ANALYTICAL RESULTS

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Sample: GW-075085-3812-CB-MW-3 **Lab ID: 60117039003** Collected: 03/08/12 10:45 Received: 03/10/12 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**962**	ug/L	500	5	03/14/12 16:35	03/20/12 13:34	7440-42-8	
Iron, Dissolved	**4750**	ug/L	250	5	03/14/12 16:35	03/20/12 13:34	7439-89-6	
Manganese, Dissolved	**4470**	ug/L	25.0	5	03/14/12 16:35	03/20/12 13:34	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Naphthalene	ND	ug/L	0.50	1	03/14/12 00:00	03/15/12 11:28	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	56	%	42-112	1	03/14/12 00:00	03/15/12 11:28	4165-60-0	
2-Fluorobiphenyl (S)	71	%	44-115	1	03/14/12 00:00	03/15/12 11:28	321-60-8	
Terphenyl-d14 (S)	108	%	46-131	1	03/14/12 00:00	03/15/12 11:28	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		03/16/12 21:51	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/16/12 21:51	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		03/16/12 21:51	75-09-2	
Naphthalene	ND	ug/L	10.0	1		03/16/12 21:51	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/16/12 21:51	79-34-5	
Toluene	ND	ug/L	1.0	1		03/16/12 21:51	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/16/12 21:51	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	87-113	1		03/16/12 21:51	460-00-4	
Dibromofluoromethane (S)	107	%	86-112	1		03/16/12 21:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	82-119	1		03/16/12 21:51	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		03/16/12 21:51	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/16/12 21:51		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**30500**	mg/L	5.0	1		03/15/12 10:33		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**456**	mg/L	50.0	50		03/27/12 13:27	16887-00-6	
Fluoride	ND	mg/L	10.0	50		03/27/12 13:27	16984-48-8	D3
Sulfate	**21500**	mg/L	2000	2000		03/27/12 13:43	14808-79-8	

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ANALYTICAL RESULTS

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Sample: GW-075085-3812-CB-MW-4 **Lab ID: 60117039004** Collected: 03/08/12 12:00 Received: 03/10/12 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**554**	ug/L	500	5	03/14/12 16:35	03/20/12 13:38	7440-42-8	
Iron, Dissolved	**1040**	ug/L	250	5	03/14/12 16:35	03/20/12 13:38	7439-89-6	
Manganese, Dissolved	**8280**	ug/L	25.0	5	03/14/12 16:35	03/20/12 13:38	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Naphthalene	**1.1**	ug/L	0.50	1	03/14/12 00:00	03/15/12 11:49	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	63	%	42-112	1	03/14/12 00:00	03/15/12 11:49	4165-60-0	
2-Fluorobiphenyl (S)	69	%	44-115	1	03/14/12 00:00	03/15/12 11:49	321-60-8	
Terphenyl-d14 (S)	100	%	46-131	1	03/14/12 00:00	03/15/12 11:49	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		03/19/12 18:07	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/19/12 18:07	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		03/19/12 18:07	75-09-2	
Naphthalene	ND	ug/L	10.0	1		03/19/12 18:07	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/19/12 18:07	79-34-5	
Toluene	ND	ug/L	1.0	1		03/19/12 18:07	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/19/12 18:07	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	87-113	1		03/19/12 18:07	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		03/19/12 18:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	82-119	1		03/19/12 18:07	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		03/19/12 18:07	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/19/12 18:07		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**38400**	mg/L	5.0	1		03/15/12 10:33		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**377**	mg/L	50.0	50		03/27/12 14:00	16887-00-6	
Fluoride	ND	mg/L	10.0	50		03/27/12 14:00	16984-48-8	D3
Sulfate	**30200**	mg/L	5000	5000		03/27/12 14:17	14808-79-8	

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ANALYTICAL RESULTS

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Sample: GW-075085-3812-CB-MW-5 **Lab ID: 60117039005** Collected: 03/08/12 12:40 Received: 03/10/12 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**1200**	ug/L	20.0	20		03/19/12 18:23	71-43-2	
Ethylbenzene	**62.8**	ug/L	1.0	1		03/16/12 22:21	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		03/16/12 22:21	75-09-2	
Naphthalene	ND	ug/L	10.0	1		03/16/12 22:21	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/16/12 22:21	79-34-5	
Toluene	ND	ug/L	1.0	1		03/16/12 22:21	108-88-3	
Xylene (Total)	**61.3**	ug/L	3.0	1		03/16/12 22:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	87-113	1		03/16/12 22:21	460-00-4	
Dibromofluoromethane (S)	109	%	86-112	1		03/16/12 22:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	82-119	1		03/16/12 22:21	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		03/16/12 22:21	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/16/12 22:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**8520**	mg/L	5.0	1		03/15/12 10:33		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**187**	mg/L	20.0	20		03/27/12 15:23	16887-00-6	
Fluoride	ND	mg/L	4.0	20		03/27/12 15:23	16984-48-8	D3
Sulfate	**5810**	mg/L	500	500		03/27/12 14:33	14808-79-8	

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ANALYTICAL RESULTS

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Sample: GW-075085-3812-CB-MW-6 **Lab ID: 60117039006** Collected: 03/08/12 11:40 Received: 03/10/12 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**622**	ug/L	500	5	03/14/12 16:35	03/20/12 13:42	7440-42-8	
Iron, Dissolved	ND	ug/L	50.0	1	03/14/12 16:35	03/20/12 13:13	7439-89-6	
Manganese, Dissolved	**2530**	ug/L	25.0	5	03/14/12 16:35	03/20/12 13:42	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Naphthalene	**23.4**	ug/L	5.0	10	03/14/12 00:00	03/15/12 16:02	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	62	%	42-112	10	03/14/12 00:00	03/15/12 16:02	4165-60-0	
2-Fluorobiphenyl (S)	64	%	44-115	10	03/14/12 00:00	03/15/12 16:02	321-60-8	
Terphenyl-d14 (S)	97	%	46-131	10	03/14/12 00:00	03/15/12 16:02	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**43.2**	ug/L	10.0	10		03/16/12 22:35	71-43-2	
Ethylbenzene	**190**	ug/L	10.0	10		03/16/12 22:35	100-41-4	
Methylene chloride	ND	ug/L	10.0	10		03/16/12 22:35	75-09-2	
Naphthalene	ND	ug/L	100	10		03/16/12 22:35	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		03/16/12 22:35	79-34-5	
Toluene	ND	ug/L	10.0	10		03/16/12 22:35	108-88-3	
Xylene (Total)	**3320**	ug/L	30.0	10		03/16/12 22:35	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	106	%	87-113	10		03/16/12 22:35	460-00-4	
Dibromofluoromethane (S)	101	%	86-112	10		03/16/12 22:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	82-119	10		03/16/12 22:35	17060-07-0	
Toluene-d8 (S)	99	%	90-110	10		03/16/12 22:35	2037-26-5	
Preservation pH	**1.0**		0.10	10		03/16/12 22:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**37500**	mg/L	5.0	1		03/15/12 10:33		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**369**	mg/L	50.0	50		03/27/12 15:39	16887-00-6	
Fluoride	ND	mg/L	10.0	50		03/27/12 15:39	16984-48-8	D3
Sulfate	**31600**	mg/L	5000	5000		03/27/12 15:56	14808-79-8	

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ANALYTICAL RESULTS

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Sample: GW-075085-3812-CB-MW-7 **Lab ID: 60117039007** Collected: 03/08/12 09:55 Received: 03/10/12 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**840**	ug/L	500	5	03/14/12 16:35	03/20/12 13:45	7440-42-8	
Iron, Dissolved	**612**	ug/L	250	5	03/14/12 16:35	03/20/12 13:45	7439-89-6	
Manganese, Dissolved	**4050**	ug/L	25.0	5	03/14/12 16:35	03/20/12 13:45	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Naphthalene	**5.9**	ug/L	0.50	1	03/14/12 00:00	03/15/12 12:31	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	93	%	42-112	1	03/14/12 00:00	03/15/12 12:31	4165-60-0	
2-Fluorobiphenyl (S)	69	%	44-115	1	03/14/12 00:00	03/15/12 12:31	321-60-8	
Terphenyl-d14 (S)	89	%	46-131	1	03/14/12 00:00	03/15/12 12:31	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**18.6**	ug/L	5.0	5		03/19/12 18:38	71-43-2	
Ethylbenzene	**357**	ug/L	5.0	5		03/19/12 18:38	100-41-4	
Methylene chloride	ND	ug/L	5.0	5		03/19/12 18:38	75-09-2	
Naphthalene	ND	ug/L	50.0	5		03/19/12 18:38	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		03/19/12 18:38	79-34-5	
Toluene	ND	ug/L	5.0	5		03/19/12 18:38	108-88-3	
Xylene (Total)	ND	ug/L	15.0	5		03/19/12 18:38	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	87-113	5		03/19/12 18:38	460-00-4	
Dibromofluoromethane (S)	99	%	86-112	5		03/19/12 18:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	82-119	5		03/19/12 18:38	17060-07-0	
Toluene-d8 (S)	100	%	90-110	5		03/19/12 18:38	2037-26-5	
Preservation pH	**1.0**		0.10	5		03/19/12 18:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**28400**	mg/L	5.0	1		03/15/12 16:14		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**307**	mg/L	20.0	20		03/27/12 16:12	16887-00-6	
Fluoride	ND	mg/L	4.0	20		03/27/12 16:12	16984-48-8	D3
Sulfate	**20600**	mg/L	2000	2000		03/27/12 16:29	14808-79-8	

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ANALYTICAL RESULTS

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Sample: GW-075085-3812-CB-DUP **Lab ID: 60117039008** Collected: 03/08/12 11:45 Received: 03/10/12 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	50.0	50		03/16/12 23:05	71-43-2	
Ethylbenzene	**199**	ug/L	50.0	50		03/16/12 23:05	100-41-4	
Methylene chloride	ND	ug/L	50.0	50		03/16/12 23:05	75-09-2	
Naphthalene	ND	ug/L	500	50		03/16/12 23:05	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		03/16/12 23:05	79-34-5	
Toluene	ND	ug/L	50.0	50		03/16/12 23:05	108-88-3	
Xylene (Total)	**3610**	ug/L	150	50		03/16/12 23:05	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	87-113	50		03/16/12 23:05	460-00-4	D3
Dibromofluoromethane (S)	103	%	86-112	50		03/16/12 23:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	82-119	50		03/16/12 23:05	17060-07-0	
Toluene-d8 (S)	99	%	90-110	50		03/16/12 23:05	2037-26-5	
Preservation pH	**1.0**		0.10	50		03/16/12 23:05		

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ANALYTICAL RESULTS

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Sample: TRIP BLANK **Lab ID: 60117039009** Collected: 03/08/12 00:00 Received: 03/10/12 09:00 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		03/16/12 23:20	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/16/12 23:20	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		03/16/12 23:20	75-09-2	
Naphthalene	ND	ug/L	10.0	1		03/16/12 23:20	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/16/12 23:20	79-34-5	
Toluene	ND	ug/L	1.0	1		03/16/12 23:20	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/16/12 23:20	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	87-113	1		03/16/12 23:20	460-00-4	
Dibromofluoromethane (S)	101	%	86-112	1		03/16/12 23:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	82-119	1		03/16/12 23:20	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		03/16/12 23:20	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/16/12 23:20		

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QUALITY CONTROL DATA

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

QC Batch: MPRP/17310 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60117039001, 60117039002, 60117039003, 60117039004, 60117039006, 60117039007

METHOD BLANK: 965102 Matrix: Water
Associated Lab Samples: 60117039001, 60117039002, 60117039003, 60117039004, 60117039006, 60117039007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	03/20/12 11:47	
Iron, Dissolved	ug/L	ND	50.0	03/20/12 11:47	
Manganese, Dissolved	ug/L	ND	5.0	03/20/12 11:47	

LABORATORY CONTROL SAMPLE: 965103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	968	97	80-120	
Iron, Dissolved	ug/L	10000	10000	100	80-120	
Manganese, Dissolved	ug/L	1000	1000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 965104 965105

Parameter	Units	60117005001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	135	1000	1000	1070	1070	93	94	75-125	0	20	
Iron, Dissolved	ug/L	40.9J	10000	10000	10800	10800	107	107	75-125	0	20	
Manganese, Dissolved	ug/L	955	1000	1000	1810	1820	86	87	75-125	0	20	

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QUALITY CONTROL DATA

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

QC Batch: MSV/44271 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60117039001, 60117039002, 60117039003, 60117039005, 60117039006, 60117039008, 60117039009

METHOD BLANK: 966515 Matrix: Water
Associated Lab Samples: 60117039001, 60117039002, 60117039003, 60117039005, 60117039006, 60117039008, 60117039009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/16/12 21:07	
Benzene	ug/L	ND	1.0	03/16/12 21:07	
Ethylbenzene	ug/L	ND	1.0	03/16/12 21:07	
Methylene chloride	ug/L	ND	1.0	03/16/12 21:07	
Naphthalene	ug/L	ND	10.0	03/16/12 21:07	
Toluene	ug/L	ND	1.0	03/16/12 21:07	
Xylene (Total)	ug/L	ND	3.0	03/16/12 21:07	
1,2-Dichloroethane-d4 (S)	%	104	82-119	03/16/12 21:07	
4-Bromofluorobenzene (S)	%	101	87-113	03/16/12 21:07	
Dibromofluoromethane (S)	%	103	86-112	03/16/12 21:07	
Toluene-d8 (S)	%	100	90-110	03/16/12 21:07	

LABORATORY CONTROL SAMPLE: 966516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	20.7	103	78-124	
Benzene	ug/L	20	21.7	109	82-117	
Ethylbenzene	ug/L	20	19.6	98	79-121	
Methylene chloride	ug/L	20	21.0	105	75-118	
Naphthalene	ug/L	20	20.4	102	66-133	
Toluene	ug/L	20	20.1	100	80-120	
Xylene (Total)	ug/L	60	62.4	104	75-120	
1,2-Dichloroethane-d4 (S)	%			102	82-119	
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			103	86-112	
Toluene-d8 (S)	%			98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 966517 966518

Parameter	Units	60117231002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	24.1	24.1	119	119	48-137	0	26	
Benzene	ug/L	156	20	20	209	194	265	192	58-139	7	21	M1
Ethylbenzene	ug/L	93.3	20	20	114	114	105	104	56-138	0	19	
Methylene chloride	ug/L	ND	20	20	20.4	18.1	101	89	44-133	12	27	
Naphthalene	ug/L	46.0	20	20	71.3	69.4	127	117	26-159	3	34	
Toluene	ug/L	ND	20	20	19.0	19.5	93	95	59-140	3	19	
Xylene (Total)	ug/L	101	60	60	158	159	96	98	52-146	1	19	
1,2-Dichloroethane-d4 (S)	%						106	106	82-119			
4-Bromofluorobenzene (S)	%						103	105	87-113			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 966517 966518

Parameter	Units	60117231002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromofluoromethane (S)	%						101	98	86-112			
Toluene-d8 (S)	%						97	100	90-110			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

QC Batch: MSV/44319 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60117039004, 60117039005, 60117039007

METHOD BLANK: 967913 Matrix: Water
Associated Lab Samples: 60117039004, 60117039005, 60117039007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/19/12 16:02	
Benzene	ug/L	ND	1.0	03/19/12 16:02	
Ethylbenzene	ug/L	ND	1.0	03/19/12 16:02	
Methylene chloride	ug/L	ND	1.0	03/19/12 16:02	
Naphthalene	ug/L	ND	10.0	03/19/12 16:02	
Toluene	ug/L	ND	1.0	03/19/12 16:02	
Xylene (Total)	ug/L	ND	3.0	03/19/12 16:02	
1,2-Dichloroethane-d4 (S)	%	95	82-119	03/19/12 16:02	
4-Bromofluorobenzene (S)	%	95	87-113	03/19/12 16:02	
Dibromofluoromethane (S)	%	99	86-112	03/19/12 16:02	
Toluene-d8 (S)	%	101	90-110	03/19/12 16:02	

LABORATORY CONTROL SAMPLE: 967914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	19.4	97	78-124	
Benzene	ug/L	20	18.8	94	82-117	
Ethylbenzene	ug/L	20	19.1	95	79-121	
Methylene chloride	ug/L	20	18.2	91	75-118	
Naphthalene	ug/L	20	16.9	85	66-133	
Toluene	ug/L	20	18.7	94	80-120	
Xylene (Total)	ug/L	60	55.0	92	75-120	
1,2-Dichloroethane-d4 (S)	%			96	82-119	
4-Bromofluorobenzene (S)	%			97	87-113	
Dibromofluoromethane (S)	%			100	86-112	
Toluene-d8 (S)	%			100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 967915 967916

Parameter	Units	60117035001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.1	18.5	90	92	48-137	2	26	
Benzene	ug/L	ND	20	20	21.0	20.4	105	102	58-139	3	21	
Ethylbenzene	ug/L	1.8	20	20	23.1	23.4	106	108	56-138	1	19	
Methylene chloride	ug/L	ND	20	20	19.3	19.2	97	96	44-133	1	27	
Naphthalene	ug/L	ND	20	20	16.3	17.8	82	89	26-159	8	34	
Toluene	ug/L	ND	20	20	21.2	20.9	106	105	59-140	1	19	
Xylene (Total)	ug/L	20.1	60	60	82.4	81.8	104	103	52-146	1	19	
1,2-Dichloroethane-d4 (S)	%						91	92	82-119			
4-Bromofluorobenzene (S)	%						93	98	87-113			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 967915 967916

Parameter	Units	60117035001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromofluoromethane (S)	%						98	99	86-112			
Toluene-d8 (S)	%						101	102	90-110			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

QC Batch: OEXT/32389 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60117039002, 60117039003, 60117039004, 60117039006, 60117039007

METHOD BLANK: 964749 Matrix: Water
Associated Lab Samples: 60117039002, 60117039003, 60117039004, 60117039006, 60117039007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	0.50	03/15/12 10:25	
2-Fluorobiphenyl (S)	%	82	44-115	03/15/12 10:25	
Nitrobenzene-d5 (S)	%	66	42-112	03/15/12 10:25	
Terphenyl-d14 (S)	%	114	46-131	03/15/12 10:25	

LABORATORY CONTROL SAMPLE: 964750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	1	0.81	81	41-112	
2-Fluorobiphenyl (S)	%			78	44-115	
Nitrobenzene-d5 (S)	%			64	42-112	
Terphenyl-d14 (S)	%			97	46-131	

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QUALITY CONTROL DATA

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

QC Batch: OEXT/32465
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60117039002

METHOD BLANK: 968066 Matrix: Water
Associated Lab Samples: 60117039002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	0.50	03/22/12 02:56	
2-Fluorobiphenyl (S)	%	83	44-115	03/22/12 02:56	
Nitrobenzene-d5 (S)	%	80	42-112	03/22/12 02:56	
Terphenyl-d14 (S)	%	99	46-131	03/22/12 02:56	

LABORATORY CONTROL SAMPLE: 968067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	1	0.79	79	41-112	
2-Fluorobiphenyl (S)	%			78	44-115	
Nitrobenzene-d5 (S)	%			80	42-112	
Terphenyl-d14 (S)	%			91	46-131	

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QUALITY CONTROL DATA

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

QC Batch: WET/34000 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60117039002, 60117039003, 60117039004, 60117039005, 60117039006

METHOD BLANK: 965602 Matrix: Water
Associated Lab Samples: 60117039002, 60117039003, 60117039004, 60117039005, 60117039006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	03/15/12 10:31	

SAMPLE DUPLICATE: 965603

Parameter	Units	60117274001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	636	599	6	17	

SAMPLE DUPLICATE: 965604

Parameter	Units	60116775003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1000	1100	10	17	

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QUALITY CONTROL DATA

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

QC Batch: WET/34008
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60117039007

METHOD BLANK: 966010
Matrix: Water
Associated Lab Samples: 60117039007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	03/15/12 16:13	

SAMPLE DUPLICATE: 966011

Parameter	Units	60117039007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	28400	24300	16	17	

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QUALITY CONTROL DATA

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

QC Batch: WETA/19623 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60117039002, 60117039003, 60117039004, 60117039005, 60117039006, 60117039007

METHOD BLANK: 971834 Matrix: Water
Associated Lab Samples: 60117039002, 60117039003, 60117039004, 60117039005, 60117039006, 60117039007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	03/27/12 12:21	
Fluoride	mg/L	ND	0.20	03/27/12 12:21	
Sulfate	mg/L	ND	1.0	03/27/12 12:21	

LABORATORY CONTROL SAMPLE: 971835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE SAMPLE: 971836

Parameter	Units	60117220001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	14.5	25	39.4	99	64-118	
Fluoride	mg/L	ND	12.5	12.0	92	75-110	
Sulfate	mg/L	205	100	310	105	61-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 971837 971838

Parameter	Units	60117231002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	235	500	500	705	720	94	97	64-118	2	12	
Fluoride	mg/L	ND	250	250	250	269	98	105	75-110	7	10	
Sulfate	mg/L	681	500	500	1210	1220	107	108	61-119	0	10	

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QUALIFIERS

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

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.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/32389

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

Batch: OEXT/32465

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MARTIN 34 NO 2
Pace Project No.: 60117039

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60117039001	**GW-075085-3812-CB-MW-1**	EPA 3010	MPRP/17310	EPA 6010	ICP/14765
60117039002	**GW-075085-3812-CB-MW-2**	EPA 3010	MPRP/17310	EPA 6010	ICP/14765
60117039003	**GW-075085-3812-CB-MW-3**	EPA 3010	MPRP/17310	EPA 6010	ICP/14765
60117039004	**GW-075085-3812-CB-MW-4**	EPA 3010	MPRP/17310	EPA 6010	ICP/14765
60117039006	**GW-075085-3812-CB-MW-6**	EPA 3010	MPRP/17310	EPA 6010	ICP/14765
60117039007	**GW-075085-3812-CB-MW-7**	EPA 3010	MPRP/17310	EPA 6010	ICP/14765
60117039002	**GW-075085-3812-CB-MW-2**	EPA 3510	OEXT/32389	EPA 8270 by SIM	MSSV/10125
60117039002	**GW-075085-3812-CB-MW-2**	EPA 3510	OEXT/32465	EPA 8270 by SIM	MSSV/10158
60117039003	**GW-075085-3812-CB-MW-3**	EPA 3510	OEXT/32389	EPA 8270 by SIM	MSSV/10125
60117039004	**GW-075085-3812-CB-MW-4**	EPA 3510	OEXT/32389	EPA 8270 by SIM	MSSV/10125
60117039006	**GW-075085-3812-CB-MW-6**	EPA 3510	OEXT/32389	EPA 8270 by SIM	MSSV/10125
60117039007	**GW-075085-3812-CB-MW-7**	EPA 3510	OEXT/32389	EPA 8270 by SIM	MSSV/10125
60117039001	**GW-075085-3812-CB-MW-1**	EPA 5030B/8260	MSV/44271		
60117039002	**GW-075085-3812-CB-MW-2**	EPA 5030B/8260	MSV/44271		
60117039003	**GW-075085-3812-CB-MW-3**	EPA 5030B/8260	MSV/44271		
60117039004	**GW-075085-3812-CB-MW-4**	EPA 5030B/8260	MSV/44319		
60117039005	**GW-075085-3812-CB-MW-5**	EPA 5030B/8260	MSV/44271		
60117039005	**GW-075085-3812-CB-MW-5**	EPA 5030B/8260	MSV/44319		
60117039006	**GW-075085-3812-CB-MW-6**	EPA 5030B/8260	MSV/44271		
60117039007	**GW-075085-3812-CB-MW-7**	EPA 5030B/8260	MSV/44319		
60117039008	**GW-075085-3812-CB-DUP**	EPA 5030B/8260	MSV/44271		
60117039009	**TRIP BLANK**	EPA 5030B/8260	MSV/44271		
60117039002	**GW-075085-3812-CB-MW-2**	SM 2540C	WET/34000		
60117039003	**GW-075085-3812-CB-MW-3**	SM 2540C	WET/34000		
60117039004	**GW-075085-3812-CB-MW-4**	SM 2540C	WET/34000		
60117039005	**GW-075085-3812-CB-MW-5**	SM 2540C	WET/34000		
60117039006	**GW-075085-3812-CB-MW-6**	SM 2540C	WET/34000		
60117039007	**GW-075085-3812-CB-MW-7**	SM 2540C	WET/34008		
60117039002	**GW-075085-3812-CB-MW-2**	EPA 300.0	WETA/19623		
60117039003	**GW-075085-3812-CB-MW-3**	EPA 300.0	WETA/19623		
60117039004	**GW-075085-3812-CB-MW-4**	EPA 300.0	WETA/19623		
60117039005	**GW-075085-3812-CB-MW-5**	EPA 300.0	WETA/19623		
60117039006	**GW-075085-3812-CB-MW-6**	EPA 300.0	WETA/19623		
60117039007	**GW-075085-3812-CB-MW-7**	EPA 300.0	WETA/19623		

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of

Section A — **Required** Client Information:

Company:	COP CRA NM
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
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	Martin 34 No. 2
Project Number:	075035

Section C — Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Tracy
Pace Profile #:	5341, 7

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)

Pace Project No./Lab I.D.: 60117039

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	8270 naphthalene	8260 VOCs *	300.0 Sulfate	300.0 Chloride	300.0 Flouride	Dissolved Fe, Mn, B	TDS	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
1	GW-075035-3812-CB-MW-1	WT	G	—	—	3.8.12	1040		4		1	X	X	3	D	G	9	H		X				X			1BP3N 001
2	GW-075035-3812-CB-MW-2	WT	G	—	—	3.8.12	0950		7	X		X	X						X	X	X	X	X	X	X		1BP2U 2AG1U 002
3	GW-075035-3812-CB-MW-3	WT	G	—	—	3.8.12	1045		7	X		X	X						X	X	X	X	X	X	X		003
4	GW-075035-3812-CB-MW-4	WT	G	—	—	3.8.12	1200		7	X		X	X						X	X	X	X	X	X	X		004
5	GW-075035-3812-CB-MW-5	WT	G	—	—	3.8.12	1240		4	X			X							X	X	X	X		X		005
6	GW-075035-3812-CB-MW-6	WT	G	—	—	3.8.12	1140		7	X		X	X						X	X	X	X	X	X	X		1BP3N 2AG1U 006
7	GW-075035-3812-CB-MW-7	WT	G	—	—	3.8.12	0955		7	X		X	X						X	X	X	X	X	X	X		007
8	GW-075035-3812-CB-dup	WT	G	—	—	3.8.12	1145		3				X							X						PU 3-10-12	008
9	trip blank	WT	—	—	—	3.8.12	1730		3				X							X							009
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)
~~Include MDLs on report - J flag~~	Cassie Brown/CRA	3.8.12	1730	[signature]	3-10-12	0900	2.8	Y	Y	Y
*8260 VOCs: BTEX, N, Methylene Chloride, 1,1,2,2,-							4.8	Y	Y	Y
Tetrachloroethane										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown — DATE Signed (MM/DD/YY): 3.8.12

*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

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Sample Condition Upon Receipt – ESI Tech Specs

Client Name: COP CRA Project #: 60117039

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

Tracking #: 8986383218 32 / 8986383218 00

Pace Shipping Label Used? Yes ☐ No ☑

Optional
Proj Due Date: 3/22
Proj Name:

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

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

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

Cooler Temperature: 4.8/2.8

Date and initials of person examining contents: PW 3-10-12

Temperature should be above freezing to 6°C

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	
-Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
-Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	MW-1 pH is 6.0 3/12/12 1140 MW-2 – MW-7 pH is 3.0 14. Added 2.5 mL HNO_3 to each sample all Final pH ~1.5
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: hr Lot # of added preservative: 6090
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 02312-3		15.
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: 3/12/12 preserve samples w/ high pH PW 3-10-12

Project Manager Review: AT Date: 3/12/12

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.	
Start: ~~1130~~ 1130	Start:
End: 1140	End:
Temp:	Temp:

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

Alice Tracy - RE: Pace Project 60117039 Martin 34 No 2

From: "Bown, Angela" <abown@craworld.com>
To: "Alice Tracy" <Alice.Tracy@pacelabs.com>, "Mathews, Christine" <cmathews...
Date: 3/19/2012 1:55 PM
Subject: RE: Pace Project 60117039 Martin 34 No 2

Sure, go ahead and re-extract & re-run.

Thanks,

Angie

From: Alice Tracy [mailto:Alice.Tracy@pacelabs.com]
Sent: Monday, March 19, 2012 2:32 PM
To: Bown, Angela; Mathews, Christine; Blanchard, Kelly E.
Subject: Pace Project 60117039 Martin 34 No 2

Hi Christine/Kelly/Angela,

Sample GW-075085-3812-CB-MW-2 has nitrobenzene d5 out high in the surrgates. This is most likely due to matrix interference from a significant naphthalene hit. The sample results will be posted and flagged for surrogate failure.
We can re-extract the sample and re-run it, if you'd like?

Please, let me know how you would like to move forward.

Thanks,

Alice Tracy
Project Manager
Pace Analytical Services, Inc.
9608 Loiret Boulevard
Lenexa, KS 66219
Office: 913-563-1409
Fax: 913-438-3449
alice.tracy@pacelabs.com
www.pacelabs.com

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(913)599-5665

June 21, 2012

Cassie Brown
COP Conestoga-Rovers & Associa

,

RE: Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Dear Cassie Brown:
Enclosed are the analytical results for sample(s) received by the laboratory on June 08, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

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

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CERTIFICATIONS

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

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

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SAMPLE SUMMARY

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60122981001	**GW075035-060712-CB-MW-1**	Water	06/07/12 15:00	06/08/12 08:45
60122981002	**GW075035-060712-CB-MW-2**	Water	06/06/12 18:30	06/08/12 08:45
60122981003	**GW075035-060712-CB-MW-3**	Water	06/07/12 14:00	06/08/12 08:45
60122981004	**GW075035-060712-CB-MW-4**	Water	06/07/12 14:45	06/08/12 08:45
60122981005	**GW075035-060712-CB-MW-5**	Water	06/07/12 15:20	06/08/12 08:45
60122981006	**GW075035-060712-CB-MW-6**	Water	06/07/12 18:00	06/08/12 08:45
60122981007	**GW075035-060712-CB-MW-7**	Water	06/07/12 14:15	06/08/12 08:45
60122981008	**GW075035-060712-CB-DUP**	Water	06/07/12 18:10	06/08/12 08:45
60122981009	**TRIP BLANK**	Water	06/07/12 08:00	06/08/12 08:45

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SAMPLE ANALYTE COUNT

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60122981001	**GW075035-060712-CB-MW-1**	EPA 6010	JDH	3
		EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	DJR	1
		EPA 300.0	OL	3
60122981002	**GW075035-060712-CB-MW-2**	EPA 6010	JDH	3
		EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	DJR	1
		EPA 300.0	OL	3
60122981003	**GW075035-060712-CB-MW-3**	EPA 6010	JDH	3
		EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	DJR	1
		EPA 300.0	OL	3
60122981004	**GW075035-060712-CB-MW-4**	EPA 6010	JDH	3
		EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	DJR	1
		EPA 300.0	OL	3
60122981005	**GW075035-060712-CB-MW-5**	EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	DJR	1
		EPA 300.0	OL	3
60122981006	**GW075035-060712-CB-MW-6**	EPA 6010	JDH	3
		EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	DJR	1
		EPA 300.0	OL	3
60122981007	**GW075035-060712-CB-MW-7**	EPA 6010	JDH	3
		EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	DJR	1
		EPA 300.0	OL	3
60122981008	**GW075035-060712-CB-DUP**	EPA 5030B/8260	PRG	12
60122981009	**TRIP BLANK**	EPA 5030B/8260	PRG	12

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PROJECT NARRATIVE

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 21, 2012

General Information:
6 samples were analyzed for EPA 6010. 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 3010 with any exceptions noted below.

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

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

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

Analyte Comments:

QC Batch: MPRP/18387

B: Analyte was detected in the associated method blank.

- GW075035-060712-CB-MW-1 (Lab ID: 60122981001)
  - Manganese, Dissolved
- GW075035-060712-CB-MW-2 (Lab ID: 60122981002)
  - Manganese, Dissolved
- GW075035-060712-CB-MW-3 (Lab ID: 60122981003)
  - Manganese, Dissolved
- GW075035-060712-CB-MW-4 (Lab ID: 60122981004)
  - Manganese, Dissolved
- GW075035-060712-CB-MW-6 (Lab ID: 60122981006)
  - Manganese, Dissolved

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PROJECT NARRATIVE

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 21, 2012

Analyte Comments:

QC Batch: MPRP/18387

B: Analyte was detected in the associated method blank.

- GW075035-060712-CB-MW-7 (Lab ID: 60122981007)
  - Manganese, Dissolved

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PROJECT NARRATIVE

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 21, 2012

General Information:
7 samples were analyzed for EPA 8270C by SIM. 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.

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: OEXT/33549

S0: Surrogate recovery outside laboratory control limits.

- GW075035-060712-CB-MW-1 (Lab ID: 60122981001)
  - Nitrobenzene-d5 (S)
- GW075035-060712-CB-MW-2 (Lab ID: 60122981002)
  - Nitrobenzene-d5 (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: MSSV/10547

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

QC Batch: MSSV/10548

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

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PROJECT NARRATIVE

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 21, 2012

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

Additional Comments:

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PROJECT NARRATIVE

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 21, 2012

General Information:
9 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.

QC Batch: MSV/46290

S0: Surrogate recovery outside laboratory control limits.

- GW075035-060712-CB-MW-4 (Lab ID: 60122981004)
  - 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: MSV/46290

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

QC Batch: MSV/46380

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:

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PROJECT NARRATIVE

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 21, 2012

General Information:
7 samples were analyzed for SM 2540C. 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.

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:

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PROJECT NARRATIVE

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 21, 2012

General Information:
7 samples were analyzed for EPA 300.0. 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.

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.

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ANALYTICAL RESULTS

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Sample: GW075035-060712-CB-MW-1 **Lab ID: 60122981001** Collected: 06/07/12 15:00 Received: 06/08/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**1000**	ug/L	100	1	06/15/12 15:55	06/18/12 12:27	7440-42-8	
Iron, Dissolved	**5980**	ug/L	50.0	1	06/15/12 15:55	06/18/12 12:27	7439-89-6	
Manganese, Dissolved	**2090**	ug/L	5.0	1	06/15/12 15:55	06/18/12 12:27	7439-96-5	B
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**22.0**	ug/L	2.5	5	06/13/12 00:00	06/20/12 13:10	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	149	%	42-120	1	06/13/12 00:00	06/19/12 19:39	4165-60-0	S0
2-Fluorobiphenyl (S)	57	%	44-120	1	06/13/12 00:00	06/19/12 19:39	321-60-8	
Terphenyl-d14 (S)	91	%	46-131	1	06/13/12 00:00	06/19/12 19:39	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**3000**	ug/L	100	100		06/13/12 12:56	71-43-2	
Ethylbenzene	**300**	ug/L	100	100		06/13/12 12:56	100-41-4	
Methylene chloride	ND	ug/L	100	100		06/13/12 12:56	75-09-2	
Naphthalene	ND	ug/L	1000	100		06/13/12 12:56	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		06/13/12 12:56	79-34-5	
Toluene	**3830**	ug/L	100	100		06/13/12 12:56	108-88-3	
Xylene (Total)	**4050**	ug/L	300	100		06/13/12 12:56	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	87-113	100		06/13/12 12:56	460-00-4	
Dibromofluoromethane (S)	97	%	86-112	100		06/13/12 12:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	82-119	100		06/13/12 12:56	17060-07-0	
Toluene-d8 (S)	98	%	90-110	100		06/13/12 12:56	2037-26-5	
Preservation pH	**1.0**		0.10	100		06/13/12 12:56		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**25000**	mg/L	5.0	1		06/14/12 10:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**285**	mg/L	50.0	50		06/19/12 14:32	16887-00-6	
Fluoride	ND	mg/L	0.20	1		06/18/12 17:23	16984-48-8	
Sulfate	**14100**	mg/L	2000	2000		06/19/12 14:47	14808-79-8	

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ANALYTICAL RESULTS

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Sample: GW075035-060712-CB-MW-2 **Lab ID: 60122981002** Collected: 06/06/12 18:30 Received: 06/08/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**847**	ug/L	100	1	06/15/12 15:55	06/18/12 12:30	7440-42-8	
Iron, Dissolved	**4790**	ug/L	50.0	1	06/15/12 15:55	06/18/12 12:30	7439-89-6	
Manganese, Dissolved	**3880**	ug/L	5.0	1	06/15/12 15:55	06/18/12 12:30	7439-96-5	B
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**23.8**	ug/L	2.5	5	06/13/12 00:00	06/20/12 13:25	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	121	%	42-120	1	06/13/12 00:00	06/19/12 19:55	4165-60-0	S0
2-Fluorobiphenyl (S)	61	%	44-120	1	06/13/12 00:00	06/19/12 19:55	321-60-8	
Terphenyl-d14 (S)	84	%	46-131	1	06/13/12 00:00	06/19/12 19:55	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**207**	ug/L	5.0	5		06/13/12 13:10	71-43-2	
Ethylbenzene	**219**	ug/L	5.0	5		06/13/12 13:10	100-41-4	
Methylene chloride	ND	ug/L	5.0	5		06/13/12 13:10	75-09-2	
Naphthalene	**61.1**	ug/L	50.0	5		06/13/12 13:10	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		06/13/12 13:10	79-34-5	
Toluene	ND	ug/L	5.0	5		06/13/12 13:10	108-88-3	
Xylene (Total)	**44.3**	ug/L	15.0	5		06/13/12 13:10	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	87-113	5		06/13/12 13:10	460-00-4	
Dibromofluoromethane (S)	101	%	86-112	5		06/13/12 13:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	82-119	5		06/13/12 13:10	17060-07-0	
Toluene-d8 (S)	98	%	90-110	5		06/13/12 13:10	2037-26-5	
Preservation pH	**1.0**		0.10	5		06/13/12 13:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**28000**	mg/L	5.0	1		06/13/12 09:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**400**	mg/L	50.0	50		06/19/12 15:03	16887-00-6	
Fluoride	ND	mg/L	0.20	1		06/18/12 17:38	16984-48-8	
Sulfate	**26100**	mg/L	2000	2000		06/19/12 15:18	14808-79-8	

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ANALYTICAL RESULTS

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Sample: GW075035-060712-CB-MW-3 **Lab ID: 60122981003** Collected: 06/07/12 14:00 Received: 06/08/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**889**	ug/L	100	1	06/15/12 15:55	06/18/12 12:32	7440-42-8	
Iron, Dissolved	ND	ug/L	50.0	1	06/15/12 15:55	06/18/12 12:32	7439-89-6	
Manganese, Dissolved	**2020**	ug/L	5.0	1	06/15/12 15:55	06/18/12 12:32	7439-96-5	B
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	ND	ug/L	0.50	1	06/13/12 00:00	06/19/12 20:10	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	72	%	42-120	1	06/13/12 00:00	06/19/12 20:10	4165-60-0	
2-Fluorobiphenyl (S)	65	%	44-120	1	06/13/12 00:00	06/19/12 20:10	321-60-8	
Terphenyl-d14 (S)	80	%	46-131	1	06/13/12 00:00	06/19/12 20:10	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		06/13/12 13:25	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/13/12 13:25	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		06/13/12 13:25	75-09-2	
Naphthalene	ND	ug/L	10.0	1		06/13/12 13:25	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/13/12 13:25	79-34-5	
Toluene	ND	ug/L	1.0	1		06/13/12 13:25	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/13/12 13:25	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	106	%	87-113	1		06/13/12 13:25	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	1		06/13/12 13:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	82-119	1		06/13/12 13:25	17060-07-0	
Toluene-d8 (S)	97	%	90-110	1		06/13/12 13:25	2037-26-5	
Preservation pH	**1.0**		0.10	1		06/13/12 13:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**34100**	mg/L	5.0	1		06/14/12 10:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**431**	mg/L	50.0	50		06/19/12 15:34	16887-00-6	
Fluoride	ND	mg/L	0.20	1		06/18/12 17:54	16984-48-8	
Sulfate	**23300**	mg/L	2000	2000		06/19/12 16:04	14808-79-8	

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ANALYTICAL RESULTS

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Sample: GW075035-060712-CB-MW-4 **Lab ID: 60122981004** Collected: 06/07/12 14:45 Received: 06/08/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**558**	ug/L	100	1	06/15/12 15:55	06/18/12 12:34	7440-42-8	
Iron, Dissolved	**983**	ug/L	50.0	1	06/15/12 15:55	06/18/12 12:34	7439-89-6	
Manganese, Dissolved	**5250**	ug/L	5.0	1	06/15/12 15:55	06/18/12 12:34	7439-96-5	B
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**0.79**	ug/L	0.50	1	06/13/12 00:00	06/19/12 20:26	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	67	%	42-120	1	06/13/12 00:00	06/19/12 20:26	4165-60-0	
2-Fluorobiphenyl (S)	65	%	44-120	1	06/13/12 00:00	06/19/12 20:26	321-60-8	
Terphenyl-d14 (S)	90	%	46-131	1	06/13/12 00:00	06/19/12 20:26	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		06/13/12 13:39	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/13/12 13:39	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		06/13/12 13:39	75-09-2	
Naphthalene	ND	ug/L	10.0	1		06/13/12 13:39	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/13/12 13:39	79-34-5	
Toluene	ND	ug/L	1.0	1		06/13/12 13:39	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/13/12 13:39	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	117	%	87-113	1		06/13/12 13:39	460-00-4	S0
Dibromofluoromethane (S)	104	%	86-112	1		06/13/12 13:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	82-119	1		06/13/12 13:39	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		06/13/12 13:39	2037-26-5	
Preservation pH	**1.0**		0.10	1		06/13/12 13:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**40300**	mg/L	5.0	1		06/14/12 10:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**378**	mg/L	50.0	50		06/19/12 17:06	16887-00-6	
Fluoride	**1.4**	mg/L	0.20	1		06/18/12 18:09	16984-48-8	
Sulfate	**28400**	mg/L	2000	2000		06/19/12 17:22	14808-79-8	

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ANALYTICAL RESULTS

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Sample: GW075035-060712-CB-MW-5 **Lab ID: 60122981005** Collected: 06/07/12 15:20 Received: 06/08/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	ND	ug/L	0.50	1	06/13/12 00:00	06/19/12 20:41	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	69	%	42-120	1	06/13/12 00:00	06/19/12 20:41	4165-60-0	
2-Fluorobiphenyl (S)	63	%	44-120	1	06/13/12 00:00	06/19/12 20:41	321-60-8	
Terphenyl-d14 (S)	66	%	46-131	1	06/13/12 00:00	06/19/12 20:41	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**1030**	ug/L	20.0	20		06/13/12 13:53	71-43-2	
Ethylbenzene	ND	ug/L	20.0	20		06/13/12 13:53	100-41-4	
Methylene chloride	ND	ug/L	20.0	20		06/13/12 13:53	75-09-2	
Naphthalene	ND	ug/L	200	20		06/13/12 13:53	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	20		06/13/12 13:53	79-34-5	
Toluene	ND	ug/L	20.0	20		06/13/12 13:53	108-88-3	
Xylene (Total)	ND	ug/L	60.0	20		06/13/12 13:53	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	87-113	20		06/13/12 13:53	460-00-4	
Dibromofluoromethane (S)	104	%	86-112	20		06/13/12 13:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	82-119	20		06/13/12 13:53	17060-07-0	
Toluene-d8 (S)	99	%	90-110	20		06/13/12 13:53	2037-26-5	
Preservation pH	**1.0**		0.10	20		06/13/12 13:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**13900**	mg/L	5.0	1		06/14/12 10:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**219**	mg/L	50.0	50		06/19/12 17:37	16887-00-6	
Fluoride	**0.69**	mg/L	0.20	1		06/18/12 18:24	16984-48-8	
Sulfate	**8010**	mg/L	2000	2000		06/19/12 17:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Sample: GW075035-060712-CB-MW-6 **Lab ID: 60122981006** Collected: 06/07/12 18:00 Received: 06/08/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**572**	ug/L	100	1	06/15/12 15:55	06/18/12 12:37	7440-42-8	
Iron, Dissolved	ND	ug/L	50.0	1	06/15/12 15:55	06/18/12 12:37	7439-89-6	
Manganese, Dissolved	**2010**	ug/L	5.0	1	06/15/12 15:55	06/18/12 12:37	7439-96-5	B
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**34.0**	ug/L	2.5	5	06/14/12 00:00	06/20/12 13:40	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	84	%	42-120	1	06/14/12 00:00	06/19/12 21:27	4165-60-0	
2-Fluorobiphenyl (S)	59	%	44-120	1	06/14/12 00:00	06/19/12 21:27	321-60-8	
Terphenyl-d14 (S)	97	%	46-131	1	06/14/12 00:00	06/19/12 21:27	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**25.5**	ug/L	10.0	10		06/13/12 14:08	71-43-2	
Ethylbenzene	**181**	ug/L	10.0	10		06/13/12 14:08	100-41-4	
Methylene chloride	ND	ug/L	10.0	10		06/13/12 14:08	75-09-2	
Naphthalene	ND	ug/L	100	10		06/13/12 14:08	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		06/13/12 14:08	79-34-5	
Toluene	ND	ug/L	10.0	10		06/13/12 14:08	108-88-3	
Xylene (Total)	**3160**	ug/L	30.0	10		06/13/12 14:08	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	87-113	10		06/13/12 14:08	460-00-4	
Dibromofluoromethane (S)	103	%	86-112	10		06/13/12 14:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	82-119	10		06/13/12 14:08	17060-07-0	
Toluene-d8 (S)	97	%	90-110	10		06/13/12 14:08	2037-26-5	
Preservation pH	**1.0**		0.10	10		06/13/12 14:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**40600**	mg/L	5.0	1		06/14/12 10:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**326**	mg/L	50.0	50		06/19/12 18:08	16887-00-6	
Fluoride	**0.84**	mg/L	0.20	1		06/18/12 18:40	16984-48-8	
Sulfate	**26800**	mg/L	2000	2000		06/19/12 18:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Sample: GW075035-060712-CB-MW-7 **Lab ID: 60122981007** Collected: 06/07/12 14:15 Received: 06/08/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**824**	ug/L	100	1	06/15/12 15:55	06/18/12 12:39	7440-42-8	
Iron, Dissolved	**866**	ug/L	50.0	1	06/15/12 15:55	06/18/12 12:39	7439-89-6	
Manganese, Dissolved	**3140**	ug/L	5.0	1	06/15/12 15:55	06/18/12 12:39	7439-96-5	B
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**4.2**	ug/L	0.50	1	06/14/12 00:00	06/19/12 21:43	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	113	%	42-120	1	06/14/12 00:00	06/19/12 21:43	4165-60-0	
2-Fluorobiphenyl (S)	72	%	44-120	1	06/14/12 00:00	06/19/12 21:43	321-60-8	
Terphenyl-d14 (S)	104	%	46-131	1	06/14/12 00:00	06/19/12 21:43	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**12.2**	ug/L	5.0	5		06/13/12 14:22	71-43-2	
Ethylbenzene	**333**	ug/L	5.0	5		06/13/12 14:22	100-41-4	
Methylene chloride	ND	ug/L	5.0	5		06/13/12 14:22	75-09-2	
Naphthalene	ND	ug/L	50.0	5		06/13/12 14:22	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		06/13/12 14:22	79-34-5	
Toluene	ND	ug/L	5.0	5		06/13/12 14:22	108-88-3	
Xylene (Total)	ND	ug/L	15.0	5		06/13/12 14:22	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	87-113	5		06/13/12 14:22	460-00-4	
Dibromofluoromethane (S)	103	%	86-112	5		06/13/12 14:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	82-119	5		06/13/12 14:22	17060-07-0	
Toluene-d8 (S)	100	%	90-110	5		06/13/12 14:22	2037-26-5	
Preservation pH	**1.0**		0.10	5		06/13/12 14:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**35700**	mg/L	5.0	1		06/14/12 10:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**300**	mg/L	50.0	50		06/19/12 18:39	16887-00-6	
Fluoride	ND	mg/L	0.20	1		06/18/12 18:55	16984-48-8	
Sulfate	**25900**	mg/L	2000	2000		06/19/12 18:54	14808-79-8	

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ANALYTICAL RESULTS

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Sample: GW075035-060712-CB-DUP **Lab ID: 60122981008** Collected: 06/07/12 18:10 Received: 06/08/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**24.7**	ug/L	5.0	5		06/13/12 14:36	71-43-2	
Ethylbenzene	**178**	ug/L	5.0	5		06/13/12 14:36	100-41-4	
Methylene chloride	ND	ug/L	5.0	5		06/13/12 14:36	75-09-2	
Naphthalene	ND	ug/L	50.0	5		06/13/12 14:36	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		06/13/12 14:36	79-34-5	
Toluene	ND	ug/L	5.0	5		06/13/12 14:36	108-88-3	
Xylene (Total)	**3220**	ug/L	30.0	10		06/15/12 17:45	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	87-113	5		06/13/12 14:36	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	5		06/13/12 14:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	82-119	5		06/13/12 14:36	17060-07-0	
Toluene-d8 (S)	95	%	90-110	5		06/13/12 14:36	2037-26-5	
Preservation pH	**1.0**		0.10	5		06/13/12 14:36		

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ANALYTICAL RESULTS

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Sample: TRIP BLANK **Lab ID: 60122981009** Collected: 06/07/12 08:00 Received: 06/08/12 08:45 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		06/13/12 14:51	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/13/12 14:51	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		06/13/12 14:51	75-09-2	
Naphthalene	ND	ug/L	10.0	1		06/13/12 14:51	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/13/12 14:51	79-34-5	
Toluene	ND	ug/L	1.0	1		06/13/12 14:51	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/15/12 17:59	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	87-113	1		06/13/12 14:51	460-00-4	
Dibromofluoromethane (S)	104	%	86-112	1		06/13/12 14:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	82-119	1		06/13/12 14:51	17060-07-0	
Toluene-d8 (S)	97	%	90-110	1		06/13/12 14:51	2037-26-5	
Preservation pH	**1.0**		0.10	1		06/13/12 14:51		

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QUALITY CONTROL DATA

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

QC Batch: MPRP/18387 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60122981001, 60122981002, 60122981003, 60122981004, 60122981006, 60122981007

METHOD BLANK: 1014959 Matrix: Water
Associated Lab Samples: 60122981001, 60122981002, 60122981003, 60122981004, 60122981006, 60122981007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	06/18/12 11:47	
Iron, Dissolved	ug/L	ND	50.0	06/18/12 11:47	
Manganese, Dissolved	ug/L	11.2	5.0	06/18/12 11:47	

LABORATORY CONTROL SAMPLE: 1014960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	959	96	80-120	
Iron, Dissolved	ug/L	10000	10100	101	80-120	
Manganese, Dissolved	ug/L	1000	934	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1014961 1014962

Parameter	Units	60122912001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	132	1000	1000	1090	1100	96	97	75-125	1	20	
Iron, Dissolved	ug/L	20.1J	10000	10000	9880	9980	99	100	75-125	1	20	
Manganese, Dissolved	ug/L	886	1000	1000	1770	1790	88	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

QC Batch: MSV/46290 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60122981001, 60122981002, 60122981003, 60122981004, 60122981005, 60122981006, 60122981007, 60122981008, 60122981009

METHOD BLANK: 1013184 Matrix: Water
Associated Lab Samples: 60122981001, 60122981002, 60122981003, 60122981004, 60122981005, 60122981006, 60122981007, 60122981008, 60122981009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/13/12 09:49	
Benzene	ug/L	ND	1.0	06/13/12 09:49	
Ethylbenzene	ug/L	ND	1.0	06/13/12 09:49	
Methylene chloride	ug/L	ND	1.0	06/13/12 09:49	
Naphthalene	ug/L	ND	10.0	06/13/12 09:49	
Toluene	ug/L	ND	1.0	06/13/12 09:49	
Xylene (Total)	ug/L	ND	3.0	06/13/12 09:49	
1,2-Dichloroethane-d4 (S)	%	100	82-119	06/13/12 09:49	
4-Bromofluorobenzene (S)	%	101	87-113	06/13/12 09:49	
Dibromofluoromethane (S)	%	103	86-112	06/13/12 09:49	
Toluene-d8 (S)	%	100	90-110	06/13/12 09:49	

LABORATORY CONTROL SAMPLE: 1013185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	23.4	117	78-124	
Benzene	ug/L	20	22.8	114	82-117	
Ethylbenzene	ug/L	20	22.2	111	79-121	
Methylene chloride	ug/L	20	21.6	108	75-118	
Naphthalene	ug/L	20	23.8	119	66-133	
Toluene	ug/L	20	23.0	115	80-120	
Xylene (Total)	ug/L	60	67.2	112	75-120	
1,2-Dichloroethane-d4 (S)	%			105	82-119	
4-Bromofluorobenzene (S)	%			103	87-113	
Dibromofluoromethane (S)	%			101	86-112	
Toluene-d8 (S)	%			99	90-110	

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QUALITY CONTROL DATA

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

QC Batch: MSV/46380
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60122981008, 60122981009

METHOD BLANK: 1014747
Matrix: Water
Associated Lab Samples: 60122981008, 60122981009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Xylene (Total)	ug/L	ND	3.0	06/15/12 16:48	
1,2-Dichloroethane-d4 (S)	%	99	82-119	06/15/12 16:48	
4-Bromofluorobenzene (S)	%	104	87-113	06/15/12 16:48	
Dibromofluoromethane (S)	%	102	86-112	06/15/12 16:48	
Toluene-d8 (S)	%	99	90-110	06/15/12 16:48	

LABORATORY CONTROL SAMPLE: 1014748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	66.5	111	75-120	
1,2-Dichloroethane-d4 (S)	%			103	82-119	
4-Bromofluorobenzene (S)	%			102	87-113	
Dibromofluoromethane (S)	%			107	86-112	
Toluene-d8 (S)	%			100	90-110	

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QUALITY CONTROL DATA

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

QC Batch: OEXT/33549 Analysis Method: EPA 8270C by SIM
QC Batch Method: EPA 3510C Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60122981001, 60122981002, 60122981003, 60122981004, 60122981005

METHOD BLANK: 1013026 Matrix: Water
Associated Lab Samples: 60122981001, 60122981002, 60122981003, 60122981004, 60122981005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	0.50	06/19/12 17:35	
2-Fluorobiphenyl (S)	%	78	44-120	06/19/12 17:35	
Nitrobenzene-d5 (S)	%	77	42-120	06/19/12 17:35	
Terphenyl-d14 (S)	%	105	46-131	06/19/12 17:35	

LABORATORY CONTROL SAMPLE: 1013027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	10	7.6	76	41-112	
2-Fluorobiphenyl (S)	%			75	44-120	
Nitrobenzene-d5 (S)	%			77	42-120	
Terphenyl-d14 (S)	%			88	46-131	

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QUALITY CONTROL DATA

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

QC Batch: OEXT/33558
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270C by SIM
Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60122981006, 60122981007

METHOD BLANK: 1013750 Matrix: Water
Associated Lab Samples: 60122981006, 60122981007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	0.50	06/19/12 20:57	
2-Fluorobiphenyl (S)	%	72	44-120	06/19/12 20:57	
Nitrobenzene-d5 (S)	%	80	42-120	06/19/12 20:57	
Terphenyl-d14 (S)	%	111	46-131	06/19/12 20:57	

LABORATORY CONTROL SAMPLE: 1013751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	10	7.6	76	41-112	
2-Fluorobiphenyl (S)	%			80	44-120	
Nitrobenzene-d5 (S)	%			71	42-120	
Terphenyl-d14 (S)	%			87	46-131	

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QUALITY CONTROL DATA

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

QC Batch: WET/35515 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60122981002

METHOD BLANK: 1013090 Matrix: Water
Associated Lab Samples: 60122981002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	06/13/12 09:47	

SAMPLE DUPLICATE: 1013091

Parameter	Units	60122870017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2230	2200	1	17	

SAMPLE DUPLICATE: 1013092

Parameter	Units	60122948004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	8270	8240	0	17	

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QUALITY CONTROL DATA

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

QC Batch: WET/35540 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60122981001, 60122981003, 60122981004, 60122981005, 60122981006, 60122981007

METHOD BLANK: 1013789 Matrix: Water
Associated Lab Samples: 60122981001, 60122981003, 60122981004, 60122981005, 60122981006, 60122981007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	06/14/12 10:37	

SAMPLE DUPLICATE: 1013790

Parameter	Units	60122816001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	375	379	1	17	

SAMPLE DUPLICATE: 1013791

Parameter	Units	60122898002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2350	2300	2	17	

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QUALITY CONTROL DATA

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

QC Batch: WETA/20584 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60122981001, 60122981002, 60122981003, 60122981004, 60122981005, 60122981006, 60122981007

METHOD BLANK: 1016193 Matrix: Water
Associated Lab Samples: 60122981001, 60122981002, 60122981003, 60122981004, 60122981005, 60122981006, 60122981007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/18/12 19:11	
Fluoride	mg/L	ND	0.20	06/18/12 19:11	
Sulfate	mg/L	ND	1.0	06/18/12 19:11	

METHOD BLANK: 1017235 Matrix: Water
Associated Lab Samples: 60122981001, 60122981002, 60122981003, 60122981004, 60122981005, 60122981006, 60122981007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/19/12 08:38	
Sulfate	mg/L	ND	1.0	06/19/12 08:38	

LABORATORY CONTROL SAMPLE: 1016194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	91	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

LABORATORY CONTROL SAMPLE: 1017236

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	95	90-110	
Sulfate	mg/L	5	5.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1016195 1016196

Parameter	Units	60122892004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.6	5	5	13.3	13.1	93	89	64-118	2	12	
Fluoride	mg/L	0.74	2.5	2.5	3.4	3.2	107	97	75-110	8	10	
Sulfate	mg/L	96.5	50	50	147	149	102	104	61-119	1	10	

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QUALITY CONTROL DATA

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

MATRIX SPIKE SAMPLE: 1016197

Parameter	Units	60122981003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	431	250	683	101	64-118	
Fluoride	mg/L	ND	125	129	103	75-110	
Sulfate	mg/L	23300	10000	34100	108	61-119	

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QUALIFIERS

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/33549
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/46290
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: OEXT/33558
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/46380
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.
S0 Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Martin 34 No. 2 (075035)
Pace Project No.: 60122981

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122981001	**GW075035-060712-CB-MW-1**	EPA 3010	MPRP/18387	EPA 6010	ICP/15405
60122981002	**GW075035-060712-CB-MW-2**	EPA 3010	MPRP/18387	EPA 6010	ICP/15405
60122981003	**GW075035-060712-CB-MW-3**	EPA 3010	MPRP/18387	EPA 6010	ICP/15405
60122981004	**GW075035-060712-CB-MW-4**	EPA 3010	MPRP/18387	EPA 6010	ICP/15405
60122981006	**GW075035-060712-CB-MW-6**	EPA 3010	MPRP/18387	EPA 6010	ICP/15405
60122981007	**GW075035-060712-CB-MW-7**	EPA 3010	MPRP/18387	EPA 6010	ICP/15405
60122981001	**GW075035-060712-CB-MW-1**	EPA 3510C	OEXT/33549	EPA 8270C by SIM	MSSV/10547
60122981002	**GW075035-060712-CB-MW-2**	EPA 3510C	OEXT/33549	EPA 8270C by SIM	MSSV/10547
60122981003	**GW075035-060712-CB-MW-3**	EPA 3510C	OEXT/33549	EPA 8270C by SIM	MSSV/10547
60122981004	**GW075035-060712-CB-MW-4**	EPA 3510C	OEXT/33549	EPA 8270C by SIM	MSSV/10547
60122981005	**GW075035-060712-CB-MW-5**	EPA 3510C	OEXT/33549	EPA 8270C by SIM	MSSV/10547
60122981006	**GW075035-060712-CB-MW-6**	EPA 3510C	OEXT/33558	EPA 8270C by SIM	MSSV/10548
60122981007	**GW075035-060712-CB-MW-7**	EPA 3510C	OEXT/33558	EPA 8270C by SIM	MSSV/10548
60122981001	**GW075035-060712-CB-MW-1**	EPA 5030B/8260	MSV/46290		
60122981002	**GW075035-060712-CB-MW-2**	EPA 5030B/8260	MSV/46290		
60122981003	**GW075035-060712-CB-MW-3**	EPA 5030B/8260	MSV/46290		
60122981004	**GW075035-060712-CB-MW-4**	EPA 5030B/8260	MSV/46290		
60122981005	**GW075035-060712-CB-MW-5**	EPA 5030B/8260	MSV/46290		
60122981006	**GW075035-060712-CB-MW-6**	EPA 5030B/8260	MSV/46290		
60122981007	**GW075035-060712-CB-MW-7**	EPA 5030B/8260	MSV/46290		
60122981008	**GW075035-060712-CB-DUP**	EPA 5030B/8260	MSV/46290		
60122981008	**GW075035-060712-CB-DUP**	EPA 5030B/8260	MSV/46380		
60122981009	**TRIP BLANK**	EPA 5030B/8260	MSV/46290		
60122981009	**TRIP BLANK**	EPA 5030B/8260	MSV/46380		
60122981001	**GW075035-060712-CB-MW-1**	SM 2540C	WET/35540		
60122981002	**GW075035-060712-CB-MW-2**	SM 2540C	WET/35515		
60122981003	**GW075035-060712-CB-MW-3**	SM 2540C	WET/35540		
60122981004	**GW075035-060712-CB-MW-4**	SM 2540C	WET/35540		
60122981005	**GW075035-060712-CB-MW-5**	SM 2540C	WET/35540		
60122981006	**GW075035-060712-CB-MW-6**	SM 2540C	WET/35540		
60122981007	**GW075035-060712-CB-MW-7**	SM 2540C	WET/35540		
60122981001	**GW075035-060712-CB-MW-1**	EPA 300.0	WETA/20584		
60122981002	**GW075035-060712-CB-MW-2**	EPA 300.0	WETA/20584		
60122981003	**GW075035-060712-CB-MW-3**	EPA 300.0	WETA/20584		
60122981004	**GW075035-060712-CB-MW-4**	EPA 300.0	WETA/20584		
60122981005	**GW075035-060712-CB-MW-5**	EPA 300.0	WETA/20584		
60122981006	**GW075035-060712-CB-MW-6**	EPA 300.0	WETA/20584		
60122981007	**GW075035-060712-CB-MW-7**	EPA 300.0	WETA/20584		

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Sample Condition Upon Receipt – ESI Tech Specs

Client Name: COP CRA NM Project #: 60122981

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

Tracking #: 8993 9021 6632 6600 Pace Shipping Label Used? Yes ☐ No ☑

Optional
Proj Due Date:
Proj Name: Martin 34

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

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ ZIP C

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

Cooler Temperature: 4.1/4.7

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PV 6-8-12

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	
-Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
-Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	Added 2.5 of HNO3 to MW-1 BP3N Initial pH 6.0 Final pH 1.5
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed: PV Lot # of added preservative: 12624
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 052112-3		15.
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: AMF Date: 6/11/12

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.	
Start: 1625	Start:
End: 1640	End:
Temp:	Temp:

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

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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:	COP CRA NM
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
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	Martin 34 No. 2
Project Number:	075035

Section C — Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Tracy
Pace Profile #:	5341, 7

REGULATORY AGENCY

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

Site Location STATE: NM

Section D — Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8270 naphthalene	8260 VOCs *	300.0 Sulfate	300.0 Chloride	300.0 Flouride	Dissolved Fe, Mn, B	TDS	BTEX (8260)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-075035-060712-CB-MW-1	GW	G			6/7/12	1500		8	X		X	X	3	D	HG	H		X	X	X	X	X	X	X	1AG4U		001
2	GW-075035-060612-CB-MW-2	GW	G			6/6/12	1330		8	X		X	X						X	X	X	X	X	X	X	2AG4U		002
3	GW-075035-060712-CB-MW-3	GW	G			6/7/12	1400		8	X		X	X						X	X	X	X	X	X	X			003
4	GW-075035-060712-CB-MW-4	GW	G			6/7/12	1445		8	X		X	X						X	X	X	X	X	X	X			004
5	GW-075035-060712-CB-MW-5	GW	G			6/7/12	1520		8	X			X						X	X	X	X	X	X				005
6	GW-075035-060612-CB-MW-6	GW	G			6/6/12	1600		8	X		X	X						X	X	X	X	X	X	X			006
7	GW-075035-060712-CB-MW-7	GW	G			6/7/12	1415		8	X		X	X						X	X	X	X	X	X	X			007
8	GW-075035-060712-CB-dup	GW	G			6/6/12	1610		3				X												X			008
9	trip blank					6/7/12	1500		3				X			2D	HG	H							X			009
10																												
11																												
12																												

Residual Chlorine (Y/N): 001 2298 1

Pace Project No./ Lab I.D.: 2BP3U 1BP3N-5 → 001 002 003 004 005 006 007 008 009; 1BP3N-5 → 006

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
~~Include MDLs on report - J flag~~	Cassie Brown/CRA	6/7/12	1520		6-8-12	845	4.1
*8260 VOCs: BTEX, N, Methylene Chloride, 1,1,2,2,-							4.7
Tetrachloroethane							
#1 Note: Metals Containers have been field filtered							

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Cassie Brown				
SIGNATURE of SAMPLER:	Cassie Brown	DATE Signed (MM/DD/YY):	6/7/12		

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

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Lenexa, KS 66219
(913)599-5665

October 10, 2012

Cassie Brown
COP Conestoga-Rovers & Associa

,

RE: Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Dear Cassie Brown:
Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

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

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CERTIFICATIONS

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60129930001	**GW-075035-092512-CM-MW-1**	Water	09/25/12 08:55	09/27/12 08:20
60129930002	**GW-075035-092512-CM-MW-6**	Water	09/25/12 09:20	09/27/12 08:20
60129930003	**GW-075035-092512-CM-MW-2**	Water	09/25/12 09:45	09/27/12 08:20
60129930004	**GW-075035-092512-CM-MW-4**	Water	09/25/12 11:10	09/27/12 08:20
60129930005	**GW-075035-092512-CM-MW-3**	Water	09/25/12 11:30	09/27/12 08:20
60129930006	**GW-075035-092512-CM-MW-7**	Water	09/25/12 12:20	09/27/12 08:20
60129930007	**GW-075035-092512-CM-MW-5**	Water	09/25/12 13:15	09/27/12 08:20
60129930008	**GW-075035-092512-CM-MW-DUP**	Water	09/25/12 09:50	09/27/12 08:20
60129930009	**TB-075035-092512-CM-MW-001**	Water	09/25/12 00:00	09/27/12 08:20

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SAMPLE ANALYTE COUNT

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60129930001	**GW-075035-092512-CM-MW-1**	EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60129930002	**GW-075035-092512-CM-MW-6**	EPA 6010	JGP, TDS	3
		EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60129930003	**GW-075035-092512-CM-MW-2**	EPA 6010	JGP, TDS	3
		EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60129930004	**GW-075035-092512-CM-MW-4**	EPA 6010	JGP, TDS	3
		EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60129930005	**GW-075035-092512-CM-MW-3**	EPA 6010	JGP, TDS	3
		EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60129930006	**GW-075035-092512-CM-MW-7**	EPA 6010	JGP, TDS	3
		EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60129930007	**GW-075035-092512-CM-MW-5**	EPA 8270C by SIM	BRM	4
		EPA 5030B/8260	PRG	12
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60129930008	**GW-075035-092512-CM-MW-DUP**	EPA 5030B/8260	PRG	9
60129930009	**TB-075035-092512-CM-MW-001**	EPA 5030B/8260	PRG	9

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PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 10, 2012

General Information:
5 samples were analyzed for EPA 6010. 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 3010 with any exceptions noted below.

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

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

Method Blank:
All analytes were below the report limit in the method blank 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: MPRP/19736

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60129930002

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

- MS (Lab ID: 1071191)
  - Boron, Dissolved
  - Manganese, Dissolved
- MSD (Lab ID: 1071192)
  - Boron, Dissolved
  - Manganese, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 10, 2012

General Information:
7 samples were analyzed for EPA 8270C by SIM. 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.

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: MSSV/11085

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

Additional Comments:

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PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 10, 2012

General Information:
9 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/48910

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

QC Batch: MSV/48951

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

Additional Comments:

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PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 10, 2012

General Information:
7 samples were analyzed for SM 2540C. 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.

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:

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PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 10, 2012

General Information:
7 samples were analyzed for EPA 300.0. 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.

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.

Additional Comments:

Analyte Comments:

QC Batch: WETA/21911

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GW-075035-092512-CM-MW-1 (Lab ID: 60129930001)
  - Fluoride
- GW-075035-092512-CM-MW-2 (Lab ID: 60129930003)
  - Fluoride
- GW-075035-092512-CM-MW-3 (Lab ID: 60129930005)
  - Fluoride
- GW-075035-092512-CM-MW-4 (Lab ID: 60129930004)
  - Fluoride
- GW-075035-092512-CM-MW-5 (Lab ID: 60129930007)
  - Fluoride
- GW-075035-092512-CM-MW-6 (Lab ID: 60129930002)
  - Fluoride
- GW-075035-092512-CM-MW-7 (Lab ID: 60129930006)
  - Fluoride

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

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Sample: GW-075035-092512-CM-MW-1 **Lab ID: 60129930001** Collected: 09/25/12 08:55 Received: 09/27/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**45.6**	ug/L	2.5	5	10/02/12 00:00	10/05/12 15:33	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	92	%	28-140	5	10/02/12 00:00	10/05/12 15:33	4165-60-0	
2-Fluorobiphenyl (S)	66	%	40-120	5	10/02/12 00:00	10/05/12 15:33	321-60-8	
Terphenyl-d14 (S)	71	%	43-122	5	10/02/12 00:00	10/05/12 15:33	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**5040**	ug/L	100	100		10/02/12 23:45	71-43-2	
Ethylbenzene	**626**	ug/L	100	100		10/02/12 23:45	100-41-4	
Methylene chloride	ND	ug/L	100	100		10/02/12 23:45	75-09-2	
Naphthalene	ND	ug/L	1000	100		10/02/12 23:45	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		10/02/12 23:45	79-34-5	
Toluene	**1660**	ug/L	100	100		10/02/12 23:45	108-88-3	
Xylene (Total)	**8850**	ug/L	300	100		10/02/12 23:45	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	100		10/02/12 23:45	460-00-4	
Dibromofluoromethane (S)	97	%	80-120	100		10/02/12 23:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	80-120	100		10/02/12 23:45	17060-07-0	
Toluene-d8 (S)	101	%	80-120	100		10/02/12 23:45	2037-26-5	
Preservation pH	**1.0**		0.10	100		10/02/12 23:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**24100**	mg/L	5.0	1		10/01/12 15:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**268**	mg/L	20.0	20		10/06/12 16:00	16887-00-6	
Fluoride	ND	mg/L	4.0	20		10/06/12 16:00	16984-48-8	D3
Sulfate	**13100**	mg/L	2000	2000		10/06/12 16:17	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Sample: GW-075035-092512-CM-MW-6 **Lab ID: 60129930002** Collected: 09/25/12 09:20 Received: 09/27/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**656**	ug/L	500	5	10/02/12 10:45	10/07/12 14:33	7440-42-8	M1
Iron, Dissolved	ND	ug/L	50.0	1	10/02/12 10:45	10/05/12 12:27	7439-89-6	
Manganese, Dissolved	**2190**	ug/L	25.0	5	10/02/12 10:45	10/07/12 14:33	7439-96-5	M1
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**23.7**	ug/L	2.5	5	10/02/12 00:00	10/04/12 15:02	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	84	%	28-140	1	10/02/12 00:00	10/03/12 20:49	4165-60-0	
2-Fluorobiphenyl (S)	68	%	40-120	1	10/02/12 00:00	10/03/12 20:49	321-60-8	
Terphenyl-d14 (S)	72	%	43-122	1	10/02/12 00:00	10/03/12 20:49	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**21.8**	ug/L	10.0	10		10/03/12 00:00	71-43-2	
Ethylbenzene	**166**	ug/L	10.0	10		10/03/12 00:00	100-41-4	
Methylene chloride	ND	ug/L	10.0	10		10/03/12 00:00	75-09-2	
Naphthalene	ND	ug/L	100	10		10/03/12 00:00	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		10/03/12 00:00	79-34-5	
Toluene	ND	ug/L	10.0	10		10/03/12 00:00	108-88-3	
Xylene (Total)	**2920**	ug/L	30.0	10		10/03/12 00:00	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	10		10/03/12 00:00	460-00-4	
Dibromofluoromethane (S)	98	%	80-120	10		10/03/12 00:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	80-120	10		10/03/12 00:00	17060-07-0	
Toluene-d8 (S)	103	%	80-120	10		10/03/12 00:00	2037-26-5	
Preservation pH	**1.0**		0.10	10		10/03/12 00:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**37800**	mg/L	5.0	1		10/01/12 15:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**345**	mg/L	20.0	20		10/06/12 16:35	16887-00-6	
Fluoride	ND	mg/L	4.0	20		10/06/12 16:35	16984-48-8	D3
Sulfate	**25500**	mg/L	2000	2000		10/06/12 16:52	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Sample: GW-075035-092512-CM-MW-2 **Lab ID: 60129930003** Collected: 09/25/12 09:45 Received: 09/27/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**1020**	ug/L	500	5	10/02/12 10:45	10/07/12 14:25	7440-42-8	
Iron, Dissolved	**913**	ug/L	50.0	1	10/02/12 10:45	10/05/12 12:31	7439-89-6	
Manganese, Dissolved	**2300**	ug/L	25.0	5	10/02/12 10:45	10/07/12 14:25	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**58.3**	ug/L	2.5	5	10/02/12 00:00	10/09/12 13:19	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	124	%	28-140	1	10/02/12 00:00	10/04/12 00:26	4165-60-0	
2-Fluorobiphenyl (S)	74	%	40-120	1	10/02/12 00:00	10/04/12 00:26	321-60-8	
Terphenyl-d14 (S)	82	%	43-122	1	10/02/12 00:00	10/04/12 00:26	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**127**	ug/L	5.0	5		10/03/12 00:14	71-43-2	
Ethylbenzene	**161**	ug/L	5.0	5		10/03/12 00:14	100-41-4	
Methylene chloride	**7.6**	ug/L	5.0	5		10/03/12 00:14	75-09-2	
Naphthalene	**56.6**	ug/L	50.0	5		10/03/12 00:14	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		10/03/12 00:14	79-34-5	
Toluene	ND	ug/L	5.0	5		10/03/12 00:14	108-88-3	
Xylene (Total)	**40.8**	ug/L	15.0	5		10/03/12 00:14	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	105	%	80-120	5		10/03/12 00:14	460-00-4	
Dibromofluoromethane (S)	101	%	80-120	5		10/03/12 00:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	80-120	5		10/03/12 00:14	17060-07-0	
Toluene-d8 (S)	100	%	80-120	5		10/03/12 00:14	2037-26-5	
Preservation pH	**1.0**		0.10	5		10/03/12 00:14		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**31100**	mg/L	5.0	1		10/01/12 15:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**382**	mg/L	25.0	25		10/07/12 07:23	16887-00-6	
Fluoride	ND	mg/L	4.0	20		10/06/12 17:10	16984-48-8	D3
Sulfate	**19900**	mg/L	2000	2000		10/06/12 17:27	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Sample: GW-075035-092512-CM-MW-4 **Lab ID: 60129930004** Collected: 09/25/12 11:10 Received: 09/27/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**704**	ug/L	500	5	10/02/12 10:45	10/07/12 14:27	7440-42-8	
Iron, Dissolved	**1020**	ug/L	50.0	1	10/02/12 10:45	10/05/12 12:34	7439-89-6	
Manganese, Dissolved	**5170**	ug/L	25.0	5	10/02/12 10:45	10/07/12 14:27	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**1.8**	ug/L	0.50	1	10/02/12 00:00	10/04/12 00:43	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	81	%	28-140	1	10/02/12 00:00	10/04/12 00:43	4165-60-0	
2-Fluorobiphenyl (S)	75	%	40-120	1	10/02/12 00:00	10/04/12 00:43	321-60-8	
Terphenyl-d14 (S)	82	%	43-122	1	10/02/12 00:00	10/04/12 00:43	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**1.1**	ug/L	1.0	1		10/03/12 00:29	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/03/12 00:29	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		10/03/12 00:29	75-09-2	
Naphthalene	ND	ug/L	10.0	1		10/03/12 00:29	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/03/12 00:29	79-34-5	
Toluene	ND	ug/L	1.0	1		10/03/12 00:29	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/03/12 00:29	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	107	%	80-120	1		10/03/12 00:29	460-00-4	
Dibromofluoromethane (S)	104	%	80-120	1		10/03/12 00:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	80-120	1		10/03/12 00:29	17060-07-0	
Toluene-d8 (S)	92	%	80-120	1		10/03/12 00:29	2037-26-5	
Preservation pH	**1.0**		0.10	1		10/03/12 00:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**38900**	mg/L	5.0	1		10/01/12 15:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**347**	mg/L	20.0	20		10/06/12 17:44	16887-00-6	
Fluoride	**5.8**	mg/L	4.0	20		10/06/12 17:44	16984-48-8	D3
Sulfate	**25600**	mg/L	2000	2000		10/06/12 18:02	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Sample: GW-075035-092512-CM-MW-3 **Lab ID: 60129930005** Collected: 09/25/12 11:30 Received: 09/27/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**986**	ug/L	500	5	10/02/12 10:45	10/07/12 14:29	7440-42-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/02/12 10:45	10/05/12 12:40	7439-89-6	
Manganese, Dissolved	**497**	ug/L	25.0	5	10/02/12 10:45	10/07/12 14:29	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**0.67**	ug/L	0.50	1	10/02/12 00:00	10/04/12 01:01	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	68	%	28-140	1	10/02/12 00:00	10/04/12 01:01	4165-60-0	
2-Fluorobiphenyl (S)	67	%	40-120	1	10/02/12 00:00	10/04/12 01:01	321-60-8	
Terphenyl-d14 (S)	75	%	43-122	1	10/02/12 00:00	10/04/12 01:01	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		10/03/12 00:43	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/03/12 00:43	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		10/03/12 00:43	75-09-2	
Naphthalene	ND	ug/L	10.0	1		10/03/12 00:43	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/03/12 00:43	79-34-5	
Toluene	ND	ug/L	1.0	1		10/03/12 00:43	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/03/12 00:43	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		10/03/12 00:43	460-00-4	
Dibromofluoromethane (S)	99	%	80-120	1		10/03/12 00:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	80-120	1		10/03/12 00:43	17060-07-0	
Toluene-d8 (S)	96	%	80-120	1		10/03/12 00:43	2037-26-5	
Preservation pH	**1.0**		0.10	1		10/03/12 00:43		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**30000**	mg/L	5.0	1		10/01/12 15:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**468**	mg/L	25.0	25		10/07/12 07:40	16887-00-6	
Fluoride	ND	mg/L	4.0	20		10/06/12 18:19	16984-48-8	D3
Sulfate	**18900**	mg/L	2000	2000		10/06/12 18:37	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Sample: GW-075035-092512-CM-MW-7 **Lab ID: 60129930006** Collected: 09/25/12 12:20 Received: 09/27/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron, Dissolved	**895**	ug/L	500	5	10/02/12 10:45	10/07/12 14:31	7440-42-8	
Iron, Dissolved	**1250**	ug/L	50.0	1	10/02/12 10:45	10/05/12 12:42	7439-89-6	
Manganese, Dissolved	**4080**	ug/L	25.0	5	10/02/12 10:45	10/07/12 14:31	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**6.1**	ug/L	0.50	1	10/02/12 00:00	10/04/12 01:18	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	125	%	28-140	1	10/02/12 00:00	10/04/12 01:18	4165-60-0	
2-Fluorobiphenyl (S)	82	%	40-120	1	10/02/12 00:00	10/04/12 01:18	321-60-8	
Terphenyl-d14 (S)	88	%	43-122	1	10/02/12 00:00	10/04/12 01:18	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**10.9**	ug/L	5.0	5		10/03/12 00:58	71-43-2	
Ethylbenzene	**426**	ug/L	5.0	5		10/03/12 00:58	100-41-4	
Methylene chloride	ND	ug/L	5.0	5		10/03/12 00:58	75-09-2	
Naphthalene	ND	ug/L	50.0	5		10/03/12 00:58	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		10/03/12 00:58	79-34-5	
Toluene	ND	ug/L	5.0	5		10/03/12 00:58	108-88-3	
Xylene (Total)	ND	ug/L	15.0	5		10/03/12 00:58	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	5		10/03/12 00:58	460-00-4	
Dibromofluoromethane (S)	102	%	80-120	5		10/03/12 00:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	80-120	5		10/03/12 00:58	17060-07-0	
Toluene-d8 (S)	96	%	80-120	5		10/03/12 00:58	2037-26-5	
Preservation pH	**1.0**		0.10	5		10/03/12 00:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**30500**	mg/L	5.0	1		10/01/12 15:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**266**	mg/L	20.0	20		10/06/12 19:29	16887-00-6	
Fluoride	ND	mg/L	4.0	20		10/06/12 19:29	16984-48-8	D3
Sulfate	**19500**	mg/L	2000	2000		10/06/12 19:46	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Sample: GW-075035-092512-CM-MW-5 **Lab ID: 60129930007** Collected: 09/25/12 13:15 Received: 09/27/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	ND	ug/L	0.50	1	10/02/12 00:00	10/04/12 01:35	91-20-3	
Surrogates								
Nitrobenzene-d5 (S)	81	%	28-140	1	10/02/12 00:00	10/04/12 01:35	4165-60-0	
2-Fluorobiphenyl (S)	72	%	40-120	1	10/02/12 00:00	10/04/12 01:35	321-60-8	
Terphenyl-d14 (S)	87	%	43-122	1	10/02/12 00:00	10/04/12 01:35	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**1040**	ug/L	20.0	20		10/03/12 01:13	71-43-2	
Ethylbenzene	**77.2**	ug/L	20.0	20		10/03/12 01:13	100-41-4	
Methylene chloride	**28.9**	ug/L	20.0	20		10/03/12 01:13	75-09-2	
Naphthalene	ND	ug/L	200	20		10/03/12 01:13	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	20		10/03/12 01:13	79-34-5	
Toluene	ND	ug/L	20.0	20		10/03/12 01:13	108-88-3	
Xylene (Total)	ND	ug/L	60.0	20		10/03/12 01:13	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	20		10/03/12 01:13	460-00-4	
Dibromofluoromethane (S)	97	%	80-120	20		10/03/12 01:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	80-120	20		10/03/12 01:13	17060-07-0	
Toluene-d8 (S)	98	%	80-120	20		10/03/12 01:13	2037-26-5	
Preservation pH	**1.0**		0.10	20		10/03/12 01:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**11600**	mg/L	5.0	1		10/01/12 15:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**202**	mg/L	20.0	20		10/06/12 20:04	16887-00-6	
Fluoride	ND	mg/L	4.0	20		10/06/12 20:04	16984-48-8	D3
Sulfate	**6800**	mg/L	1000	1000		10/06/12 20:21	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Sample: GW-075035-092512-CM-MW-DUP **Lab ID: 60129930008** Collected: 09/25/12 09:50 Received: 09/27/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**142**	ug/L	2.0	2		10/03/12 18:11	71-43-2	
Ethylbenzene	**181**	ug/L	2.0	2		10/03/12 18:11	100-41-4	
Toluene	ND	ug/L	2.0	2		10/03/12 18:11	108-88-3	
Xylene (Total)	**35.6**	ug/L	6.0	2		10/03/12 18:11	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	2		10/03/12 18:11	460-00-4	
Dibromofluoromethane (S)	105	%	80-120	2		10/03/12 18:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	80-120	2		10/03/12 18:11	17060-07-0	
Toluene-d8 (S)	98	%	80-120	2		10/03/12 18:11	2037-26-5	
Preservation pH	**1.0**		0.10	2		10/03/12 18:11		

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Sample: TB-075035-092512-CM-MW-001 **Lab ID: 60129930009** Collected: 09/25/12 00:00 Received: 09/27/12 08:20 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		10/03/12 01:42	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/03/12 01:42	100-41-4	
Toluene	ND	ug/L	1.0	1		10/03/12 01:42	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/03/12 01:42	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		10/03/12 01:42	460-00-4	
Dibromofluoromethane (S)	101	%	80-120	1		10/03/12 01:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	80-120	1		10/03/12 01:42	17060-07-0	
Toluene-d8 (S)	95	%	80-120	1		10/03/12 01:42	2037-26-5	
Preservation pH	**1.0**		0.10	1		10/03/12 01:42		

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

QC Batch: MPRP/19736 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60129930002, 60129930003, 60129930004, 60129930005, 60129930006

METHOD BLANK: 1071189 Matrix: Water
Associated Lab Samples: 60129930002, 60129930003, 60129930004, 60129930005, 60129930006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	10/05/12 12:14	
Iron, Dissolved	ug/L	ND	50.0	10/05/12 12:14	
Manganese, Dissolved	ug/L	ND	5.0	10/05/12 12:14	

LABORATORY CONTROL SAMPLE: 1071190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	979	98	80-120	
Iron, Dissolved	ug/L	10000	9840	98	80-120	
Manganese, Dissolved	ug/L	1000	976	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1071191 1071192

Parameter	Units	60129930002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	656	1000	1000	1300	1290	64	63	75-125	0	20	M1
Iron, Dissolved	ug/L	ND	10000	10000	10800	10800	108	107	75-125	1	20	
Manganese, Dissolved	ug/L	2190	1000	1000	5060	5090	287	290	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

QC Batch: MSV/48910 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60129930001, 60129930002, 60129930003, 60129930004, 60129930005, 60129930006, 60129930007, 60129930009

METHOD BLANK: 1071334 Matrix: Water
Associated Lab Samples: 60129930001, 60129930002, 60129930003, 60129930004, 60129930005, 60129930006, 60129930007, 60129930009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/02/12 20:48	
Benzene	ug/L	ND	1.0	10/02/12 20:48	
Ethylbenzene	ug/L	ND	1.0	10/02/12 20:48	
Methylene chloride	ug/L	ND	1.0	10/02/12 20:48	
Naphthalene	ug/L	ND	10.0	10/02/12 20:48	
Toluene	ug/L	ND	1.0	10/02/12 20:48	
Xylene (Total)	ug/L	ND	3.0	10/02/12 20:48	
1,2-Dichloroethane-d4 (S)	%	98	80-120	10/02/12 20:48	
4-Bromofluorobenzene (S)	%	100	80-120	10/02/12 20:48	
Dibromofluoromethane (S)	%	100	80-120	10/02/12 20:48	
Toluene-d8 (S)	%	99	80-120	10/02/12 20:48	

LABORATORY CONTROL SAMPLE: 1071335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	71-121	
Benzene	ug/L	20	21.1	106	74-123	
Ethylbenzene	ug/L	20	20.9	105	76-123	
Methylene chloride	ug/L	20	20.1	100	72-127	
Naphthalene	ug/L	20	19.2	96	63-128	
Toluene	ug/L	20	19.1	95	75-123	
Xylene (Total)	ug/L	60	61.2	102	76-123	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Dibromofluoromethane (S)	%			99	80-120	
Toluene-d8 (S)	%			99	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

QC Batch: MSV/48951
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60129930008

METHOD BLANK: 1072099
Matrix: Water
Associated Lab Samples: 60129930008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/03/12 16:27	
Ethylbenzene	ug/L	ND	1.0	10/03/12 16:27	
Toluene	ug/L	ND	1.0	10/03/12 16:27	
Xylene (Total)	ug/L	ND	3.0	10/03/12 16:27	
1,2-Dichloroethane-d4 (S)	%	99	80-120	10/03/12 16:27	
4-Bromofluorobenzene (S)	%	106	80-120	10/03/12 16:27	
Dibromofluoromethane (S)	%	103	80-120	10/03/12 16:27	
Toluene-d8 (S)	%	96	80-120	10/03/12 16:27	

LABORATORY CONTROL SAMPLE: 1072100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.7	104	74-123	
Ethylbenzene	ug/L	20	20.9	104	76-123	
Toluene	ug/L	20	19.5	98	75-123	
Xylene (Total)	ug/L	60	61.8	103	76-123	
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Dibromofluoromethane (S)	%			100	80-120	
Toluene-d8 (S)	%			98	80-120	

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

QC Batch: OEXT/35302 Analysis Method: EPA 8270C by SIM
QC Batch Method: EPA 3510C Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60129930001, 60129930002, 60129930003, 60129930004, 60129930005, 60129930006, 60129930007

METHOD BLANK: 1071107 Matrix: Water
Associated Lab Samples: 60129930001, 60129930002, 60129930003, 60129930004, 60129930005, 60129930006, 60129930007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	0.50	10/03/12 19:58	
2-Fluorobiphenyl (S)	%	85	40-120	10/03/12 19:58	
Nitrobenzene-d5 (S)	%	86	28-140	10/03/12 19:58	
Terphenyl-d14 (S)	%	86	43-122	10/03/12 19:58	

LABORATORY CONTROL SAMPLE: 1071108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	10	6.6	66	41-120	
2-Fluorobiphenyl (S)	%			69	40-120	
Nitrobenzene-d5 (S)	%			72	28-140	
Terphenyl-d14 (S)	%			67	43-122	

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

QC Batch: WET/37440 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60129930001, 60129930002, 60129930003, 60129930004, 60129930005, 60129930006, 60129930007

METHOD BLANK: 1070930 Matrix: Water
Associated Lab Samples: 60129930001, 60129930002, 60129930003, 60129930004, 60129930005, 60129930006, 60129930007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/01/12 15:44	

SAMPLE DUPLICATE: 1070931

Parameter	Units	60129930001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	24100	24300	1	17	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

QC Batch: WETA/21911 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60129930001, 60129930002, 60129930003, 60129930004, 60129930005, 60129930006, 60129930007

METHOD BLANK: 1074834 Matrix: Water
Associated Lab Samples: 60129930001, 60129930002, 60129930003, 60129930004, 60129930005, 60129930006, 60129930007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	10/06/12 13:41	
Fluoride	mg/L	ND	0.20	10/06/12 13:41	

LABORATORY CONTROL SAMPLE: 1074835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	97	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1073827 1073828

Parameter	Units	60129763001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	25	25	24.2	23.8	97	95	75-110	2	10	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/35302

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

Batch: MSV/48910

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

Batch: MSV/48951

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60129930

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60129930002	**GW-075035-092512-CM-MW-6**	EPA 3010	MPRP/19736	EPA 6010	ICP/16257
60129930003	**GW-075035-092512-CM-MW-2**	EPA 3010	MPRP/19736	EPA 6010	ICP/16257
60129930004	**GW-075035-092512-CM-MW-4**	EPA 3010	MPRP/19736	EPA 6010	ICP/16257
60129930005	**GW-075035-092512-CM-MW-3**	EPA 3010	MPRP/19736	EPA 6010	ICP/16257
60129930006	**GW-075035-092512-CM-MW-7**	EPA 3010	MPRP/19736	EPA 6010	ICP/16257
60129930001	**GW-075035-092512-CM-MW-1**	EPA 3510C	OEXT/35302	EPA 8270C by SIM	MSSV/11085
60129930002	**GW-075035-092512-CM-MW-6**	EPA 3510C	OEXT/35302	EPA 8270C by SIM	MSSV/11085
60129930003	**GW-075035-092512-CM-MW-2**	EPA 3510C	OEXT/35302	EPA 8270C by SIM	MSSV/11085
60129930004	**GW-075035-092512-CM-MW-4**	EPA 3510C	OEXT/35302	EPA 8270C by SIM	MSSV/11085
60129930005	**GW-075035-092512-CM-MW-3**	EPA 3510C	OEXT/35302	EPA 8270C by SIM	MSSV/11085
60129930006	**GW-075035-092512-CM-MW-7**	EPA 3510C	OEXT/35302	EPA 8270C by SIM	MSSV/11085
60129930007	**GW-075035-092512-CM-MW-5**	EPA 3510C	OEXT/35302	EPA 8270C by SIM	MSSV/11085
60129930001	**GW-075035-092512-CM-MW-1**	EPA 5030B/8260	MSV/48910		
60129930002	**GW-075035-092512-CM-MW-6**	EPA 5030B/8260	MSV/48910		
60129930003	**GW-075035-092512-CM-MW-2**	EPA 5030B/8260	MSV/48910		
60129930004	**GW-075035-092512-CM-MW-4**	EPA 5030B/8260	MSV/48910		
60129930005	**GW-075035-092512-CM-MW-3**	EPA 5030B/8260	MSV/48910		
60129930006	**GW-075035-092512-CM-MW-7**	EPA 5030B/8260	MSV/48910		
60129930007	**GW-075035-092512-CM-MW-5**	EPA 5030B/8260	MSV/48910		
60129930008	**GW-075035-092512-CM-MW-DUP**	EPA 5030B/8260	MSV/48951		
60129930009	**TB-075035-092512-CM-MW-001**	EPA 5030B/8260	MSV/48910		
60129930001	**GW-075035-092512-CM-MW-1**	SM 2540C	WET/37440		
60129930002	**GW-075035-092512-CM-MW-6**	SM 2540C	WET/37440		
60129930003	**GW-075035-092512-CM-MW-2**	SM 2540C	WET/37440		
60129930004	**GW-075035-092512-CM-MW-4**	SM 2540C	WET/37440		
60129930005	**GW-075035-092512-CM-MW-3**	SM 2540C	WET/37440		
60129930006	**GW-075035-092512-CM-MW-7**	SM 2540C	WET/37440		
60129930007	**GW-075035-092512-CM-MW-5**	SM 2540C	WET/37440		
60129930001	**GW-075035-092512-CM-MW-1**	EPA 300.0	WETA/21911		
60129930002	**GW-075035-092512-CM-MW-6**	EPA 300.0	WETA/21911		
60129930003	**GW-075035-092512-CM-MW-2**	EPA 300.0	WETA/21911		
60129930004	**GW-075035-092512-CM-MW-4**	EPA 300.0	WETA/21911		
60129930005	**GW-075035-092512-CM-MW-3**	EPA 300.0	WETA/21911		
60129930006	**GW-075035-092512-CM-MW-7**	EPA 300.0	WETA/21911		
60129930007	**GW-075035-092512-CM-MW-5**	EPA 300.0	WETA/21911		

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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:	COF CRA NM
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
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	Martin 34 No. 2
Project Number:	075035

Section C Invoice Information

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	5341, 7

REGULATORY AGENCY

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

Site Location STATE: NM

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START GRAB DATE	COLLECTED COMPOSITE START GRAB 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: 8270 naphthalene RV	8260 VOCs *	300.0 Sulfate	300.0 Chloride	300.0 Flouride	Dissolved Fe, Mn, B	TDS	BTEX ONLY	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-075035-092512-CM-MW-1	WT	G	9.25.12	0855				7	X		X	X					X	X	X	X	X		X			6012 4930
2	GW-075035-092512-CM-MW-6	WT	G	9.25.12	0920				8	X		X	X					X	X	X	X	X	X	X			
3	GW-075035-092512-CM-MW-2	WT	G	9.25.12	0945				8	X		X	X					X	X	X	X	X	X	X			
4	GW-075035-092512-CM-MW-4	WT	G	9.25.12	1110				8	X		X	X					X	X	X	X	X	X	X			
5	GW-075035-092512-CM-MW-3	WT	G	9.25.12	1130				8	X		X	X					X	X	X	X	X	X	X			
6	GW-075035-092512-CM-MW-7	WT	G	9.25.12	1220				8	X		X	X					X	X	X	X	X	X	X			
7	GW-075035-092512-CM-MW-5	WT	G	9.25.12	1315				7	X			X					X	X	X	X	X		X			
8	GW-075035-092512-CM-DUP	WT	G	9.25.12	0950				3				X												X		
9	TB-075035-092512-CM-001	WT							3				X												X		
10																											
11																											
12																											

IBP3N2.0

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)
	Christine Mathews/CRA	9.26.12	0730		9/27/12	0920	1.5	Y	Y	Y
*8260 VOCs: BTEX, N. Methylene Chloride, 1,1,2,2,-Tetrachloroethane										

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Christine Mathews
SIGNATURE of SAMPLER: Christine Mathews DATE Signed (MM/DD/YY): 9.26.12

*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

Page Package 27 of 28

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Sample Condition Upon Receipt – ESI Tech Specs

Client Name: COPCRA NM

Project #: 60129930

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

Tracking #: 800182004868 Pace Shipping Label Used? Yes ☑ No ☐

Optional
Proj Due Date:
Proj Name: 1619

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

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

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

Cooler Temperature: 1.5

Date and initials of person examining contents: 9-27-12 BA

Temperature should be above freezing to 6°C

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	
-Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☑Yes ☐No ☐N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
-Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 080612-3		15.
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: AMT Date: 9/28/12

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

Start: 1645	Start:
End: 1700	End:
Temp:	Temp:

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

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January 07, 2013

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

RE: Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on December 21, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

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

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CERTIFICATIONS

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60135913001	**GW-075035-122012-CM-MW-1**	Water	12/20/12 10:30	12/21/12 11:15
60135913002	**GW-075035-121912-CM-MW-2**	Water	12/19/12 12:30	12/21/12 11:15
60135913003	**GW-075035-121912-CM-MW-3**	Water	12/19/12 12:45	12/21/12 11:15
60135913004	**GW-075035-121912-CM-MW-4**	Water	12/19/12 14:00	12/21/12 11:15
60135913005	**GW-075035-121912-CM-MW-5**	Water	12/19/12 14:00	12/21/12 11:15
60135913006	**GW-075035-121912-CM-MW-6**	Water	12/19/12 12:10	12/21/12 11:15
60135913007	**GW-075035-121912-CM-MW-7**	Water	12/19/12 14:30	12/21/12 11:15
60135913008	**GW-075035-121912-CM-DUP**	Water	12/19/12 12:15	12/21/12 11:15

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SAMPLE ANALYTE COUNT

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60135913001	**GW-075035-122012-CM-MW-1**	EPA 6010	TJG	3
		EPA 8270C by SIM	JMT	3
		EPA 5030B/8260	PRG	11
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60135913002	**GW-075035-121912-CM-MW-2**	EPA 6010	SMW, TJG	3
		EPA 8270C by SIM	JMT	3
		EPA 5030B/8260	PRG	11
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60135913003	**GW-075035-121912-CM-MW-3**	EPA 6010	TJG	3
		EPA 8270C by SIM	JMT	3
		EPA 5030B/8260	PRG	11
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60135913004	**GW-075035-121912-CM-MW-4**	EPA 6010	TJG	3
		EPA 8270C by SIM	JMT	3
		EPA 5030B/8260	PRG	11
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60135913005	**GW-075035-121912-CM-MW-5**	EPA 6010	TJG	3
		EPA 8270C by SIM	JMT	3
		EPA 5030B/8260	PRG	11
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60135913006	**GW-075035-121912-CM-MW-6**	EPA 6010	TJG	3
		EPA 8270C by SIM	JMT	3
		EPA 5030B/8260	PRG	11
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60135913007	**GW-075035-121912-CM-MW-7**	EPA 6010	TJG	3
		EPA 8270C by SIM	JMT	3
		EPA 5030B/8260	PRG	11
		SM 2540C	FJF	1
		EPA 300.0	AJM	3
60135913008	**GW-075035-121912-CM-DUP**	EPA 5030B/8260	PRG	9

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PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 07, 2013

General Information:
7 samples were analyzed for EPA 6010. 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 3010 with any exceptions noted below.

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

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

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

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

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

Additional Comments:

Sample Comments:

Client did not receive appropriate containers for method 8270, aliquot was taken from unpreserved plastic for Naphthalene by 8270.

- GW-075035-122012-CM-MW-1 (Lab ID: 60135913001)
- GW-075035-121912-CM-MW-2 (Lab ID: 60135913002)
- GW-075035-121912-CM-MW-3 (Lab ID: 60135913003)
- GW-075035-121912-CM-MW-4 (Lab ID: 60135913004)
- GW-075035-121912-CM-MW-5 (Lab ID: 60135913005)
- GW-075035-121912-CM-MW-6 (Lab ID: 60135913006)
- GW-075035-121912-CM-MW-7 (Lab ID: 60135913007)

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PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 07, 2013

General Information:
7 samples were analyzed for EPA 8270C by SIM. 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.

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.

Additional Comments:

Sample Comments:

Client did not receive appropriate containers for method 8270, aliquot was taken from unpreserved plastic for Naphthalene by 8270.

- GW-075035-122012-CM-MW-1 (Lab ID: 60135913001)
- GW-075035-121912-CM-MW-2 (Lab ID: 60135913002)
- GW-075035-121912-CM-MW-3 (Lab ID: 60135913003)
- GW-075035-121912-CM-MW-4 (Lab ID: 60135913004)
- GW-075035-121912-CM-MW-5 (Lab ID: 60135913005)
- GW-075035-121912-CM-MW-6 (Lab ID: 60135913006)
- GW-075035-121912-CM-MW-7 (Lab ID: 60135913007)

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PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 07, 2013

General Information:
8 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/51049

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

QC Batch: MSV/51062

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

Additional Comments:

Sample Comments:

Client did not receive appropriate containers for method 8270, aliquot was taken from unpreserved plastic for Naphthalene by 8270.

- GW-075035-122012-CM-MW-1 (Lab ID: 60135913001)
- GW-075035-121912-CM-MW-2 (Lab ID: 60135913002)
- GW-075035-121912-CM-MW-3 (Lab ID: 60135913003)
- GW-075035-121912-CM-MW-4 (Lab ID: 60135913004)
- GW-075035-121912-CM-MW-5 (Lab ID: 60135913005)
- GW-075035-121912-CM-MW-6 (Lab ID: 60135913006)
- GW-075035-121912-CM-MW-7 (Lab ID: 60135913007)

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PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 07, 2013

General Information:
7 samples were analyzed for SM 2540C. 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.

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:

Sample Comments:

Client did not receive appropriate containers for method 8270, aliquot was taken from unpreserved plastic for Naphthalene by 8270.

- GW-075035-122012-CM-MW-1 (Lab ID: 60135913001)
- GW-075035-121912-CM-MW-2 (Lab ID: 60135913002)
- GW-075035-121912-CM-MW-3 (Lab ID: 60135913003)
- GW-075035-121912-CM-MW-4 (Lab ID: 60135913004)
- GW-075035-121912-CM-MW-5 (Lab ID: 60135913005)
- GW-075035-121912-CM-MW-6 (Lab ID: 60135913006)
- GW-075035-121912-CM-MW-7 (Lab ID: 60135913007)

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PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 07, 2013

General Information:
7 samples were analyzed for EPA 300.0. 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.

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: WETA/23021

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60135798014,60135848001

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

- MS (Lab ID: 1119921)
  - Fluoride
- MSD (Lab ID: 1119922)
  - Fluoride

Additional Comments:

Sample Comments:

Client did not receive appropriate containers for method 8270, aliquot was taken from unpreserved plastic for Naphthalene by 8270.

- GW-075035-122012-CM-MW-1 (Lab ID: 60135913001)
- GW-075035-121912-CM-MW-2 (Lab ID: 60135913002)
- GW-075035-121912-CM-MW-3 (Lab ID: 60135913003)
- GW-075035-121912-CM-MW-4 (Lab ID: 60135913004)
- GW-075035-121912-CM-MW-5 (Lab ID: 60135913005)
- GW-075035-121912-CM-MW-6 (Lab ID: 60135913006)
- GW-075035-121912-CM-MW-7 (Lab ID: 60135913007)

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

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Sample: GW-075035-122012-CM-MW-1 **Lab ID: 60135913001** Collected: 12/20/12 10:30 Received: 12/21/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**1230**	ug/L	100	1.8	1	12/26/12 15:45	01/02/13 13:50	7440-42-8	
Iron, Dissolved	**1250**	ug/L	50.0	17.2	1	12/26/12 15:45	01/02/13 13:50	7439-89-6	
Manganese, Dissolved	**886**	ug/L	5.0	0.60	1	12/26/12 15:45	01/02/13 13:50	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C								
Naphthalene	**1.2**	ug/L	0.50	0.057	1	12/26/12 00:00	12/27/12 16:44	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	46	%	40-120		1	12/26/12 00:00	12/27/12 16:44	321-60-8	
Terphenyl-d14 (S)	72	%	43-122		1	12/26/12 00:00	12/27/12 16:44	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
Benzene	**3960**	ug/L	50.0	4.9	50		12/27/12 21:54	71-43-2	
Ethylbenzene	**336**	ug/L	50.0	11.5	50		12/27/12 21:54	100-41-4	
Methylene chloride	ND	ug/L	50.0	12.0	50		12/27/12 21:54	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	4.3	50		12/27/12 21:54	79-34-5	
Toluene	**2570**	ug/L	50.0	7.5	50		12/27/12 21:54	108-88-3	
Xylene (Total)	**6450**	ug/L	150	20.5	50		12/27/12 21:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		50		12/27/12 21:54	460-00-4	
Dibromofluoromethane (S)	103	%	80-120		50		12/27/12 21:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	80-120		50		12/27/12 21:54	17060-07-0	
Toluene-d8 (S)	100	%	80-120		50		12/27/12 21:54	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	50		12/27/12 21:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**23100**	mg/L	5.0	5.0	1		12/24/12 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**301**	mg/L	20.0	10.0	20		12/27/12 18:22	16887-00-6	
Fluoride	ND	mg/L	0.20	0.069	1		12/27/12 18:05	16984-48-8	
Sulfate	**15300**	mg/L	1000	59.0	1000		12/27/12 18:39	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Sample: GW-075035-121912-CM-MW-2 **Lab ID: 60135913002** Collected: 12/19/12 12:30 Received: 12/21/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**1040**	ug/L	300	5.4	3	12/26/12 15:45	01/03/13 10:54	7440-42-8	
Iron, Dissolved	**1200**	ug/L	50.0	17.2	1	12/26/12 15:45	01/02/13 13:57	7439-89-6	
Manganese, Dissolved	**1980**	ug/L	15.0	1.8	3	12/26/12 15:45	01/03/13 10:54	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C								
Naphthalene	ND	ug/L	0.50	0.057	1	12/26/12 00:00	12/27/12 14:48	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	71	%	40-120		1	12/26/12 00:00	12/27/12 14:48	321-60-8	
Terphenyl-d14 (S)	71	%	43-122		1	12/26/12 00:00	12/27/12 14:48	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
Benzene	**202**	ug/L	5.0	0.49	5		12/27/12 17:06	71-43-2	
Ethylbenzene	**281**	ug/L	5.0	1.2	5		12/27/12 17:06	100-41-4	
Methylene chloride	ND	ug/L	5.0	1.2	5		12/27/12 17:06	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	0.43	5		12/27/12 17:06	79-34-5	
Toluene	ND	ug/L	5.0	0.75	5		12/27/12 17:06	108-88-3	
Xylene (Total)	**81.1**	ug/L	15.0	2.0	5		12/27/12 17:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	80-120		5		12/27/12 17:06	460-00-4	
Dibromofluoromethane (S)	105	%	80-120		5		12/27/12 17:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	80-120		5		12/27/12 17:06	17060-07-0	
Toluene-d8 (S)	95	%	80-120		5		12/27/12 17:06	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	5		12/27/12 17:06		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**33200**	mg/L	5.0	5.0	1		12/24/12 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**423**	mg/L	50.0	25.0	50		12/28/12 13:48	16887-00-6	
Fluoride	ND	mg/L	0.20	0.069	1		12/28/12 13:31	16984-48-8	
Sulfate	**22300**	mg/L	2000	118	2000		12/28/12 14:04	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Sample: GW-075035-121912-CM-MW-3 **Lab ID: 60135913003** Collected: 12/19/12 12:45 Received: 12/21/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**1030**	ug/L	200	3.6	2	12/26/12 15:45	01/02/13 14:12	7440-42-8	
Iron, Dissolved	**152**	ug/L	100	34.4	2	12/26/12 15:45	01/02/13 14:12	7439-89-6	
Manganese, Dissolved	**547**	ug/L	10.0	1.2	2	12/26/12 15:45	01/02/13 14:12	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C								
Naphthalene	ND	ug/L	0.50	0.057	1	12/26/12 00:00	12/27/12 15:07	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	71	%	40-120		1	12/26/12 00:00	12/27/12 15:07	321-60-8	
Terphenyl-d14 (S)	69	%	43-122		1	12/26/12 00:00	12/27/12 15:07	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
Benzene	ND	ug/L	1.0	0.098	1		12/27/12 17:20	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		12/27/12 17:20	100-41-4	
Methylene chloride	ND	ug/L	1.0	0.24	1		12/27/12 17:20	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.086	1		12/27/12 17:20	79-34-5	
Toluene	ND	ug/L	1.0	0.15	1		12/27/12 17:20	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.41	1		12/27/12 17:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	80-120		1		12/27/12 17:20	460-00-4	
Dibromofluoromethane (S)	108	%	80-120		1		12/27/12 17:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		12/27/12 17:20	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		12/27/12 17:20	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		12/27/12 17:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**30600**	mg/L	5.0	5.0	1		12/24/12 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**458**	mg/L	50.0	25.0	50		12/27/12 20:40	16887-00-6	
Fluoride	ND	mg/L	0.20	0.069	1		12/27/12 20:23	16984-48-8	
Sulfate	**21400**	mg/L	2000	118	2000		12/27/12 20:57	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Sample: GW-075035-121912-CM-MW-4 **Lab ID: 60135913004** Collected: 12/19/12 14:00 Received: 12/21/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**808**	ug/L	200	3.6	2	12/26/12 15:45	01/02/13 14:14	7440-42-8	
Iron, Dissolved	**782**	ug/L	100	34.4	2	12/26/12 15:45	01/02/13 14:14	7439-89-6	
Manganese, Dissolved	**4840**	ug/L	10.0	1.2	2	12/26/12 15:45	01/02/13 14:14	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C								
Naphthalene	ND	ug/L	0.50	0.057	1	12/26/12 00:00	12/27/12 15:26	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	80	%	40-120		1	12/26/12 00:00	12/27/12 15:26	321-60-8	
Terphenyl-d14 (S)	81	%	43-122		1	12/26/12 00:00	12/27/12 15:26	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
Benzene	**1.1**	ug/L	1.0	0.098	1		12/27/12 17:35	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		12/27/12 17:35	100-41-4	
Methylene chloride	ND	ug/L	1.0	0.24	1		12/27/12 17:35	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.086	1		12/27/12 17:35	79-34-5	
Toluene	ND	ug/L	1.0	0.15	1		12/27/12 17:35	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.41	1		12/27/12 17:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	110	%	80-120		1		12/27/12 17:35	460-00-4	
Dibromofluoromethane (S)	111	%	80-120		1		12/27/12 17:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	80-120		1		12/27/12 17:35	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		12/27/12 17:35	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		12/27/12 17:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**36400**	mg/L	5.0	5.0	1		12/24/12 13:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**397**	mg/L	20.0	10.0	20		12/27/12 21:30	16887-00-6	
Fluoride	ND	mg/L	0.20	0.069	1		12/27/12 21:13	16984-48-8	
Sulfate	**28500**	mg/L	2000	118	2000		12/27/12 21:47	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Sample: GW-075035-121912-CM-MW-5 **Lab ID: 60135913005** Collected: 12/19/12 14:00 Received: 12/21/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**1550**	ug/L	200	3.6	2	12/26/12 15:45	01/02/13 14:16	7440-42-8	
Iron, Dissolved	**2150**	ug/L	100	34.4	2	12/26/12 15:45	01/02/13 14:16	7439-89-6	
Manganese, Dissolved	**1060**	ug/L	10.0	1.2	2	12/26/12 15:45	01/02/13 14:16	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C								
Naphthalene	ND	ug/L	0.50	0.057	1	12/26/12 00:00	12/27/12 15:46	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	81	%	40-120		1	12/26/12 00:00	12/27/12 15:46	321-60-8	
Terphenyl-d14 (S)	93	%	43-122		1	12/26/12 00:00	12/27/12 15:46	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
Benzene	**861**	ug/L	20.0	2.0	20		12/27/12 17:49	71-43-2	
Ethylbenzene	**43.6**	ug/L	20.0	4.6	20		12/27/12 17:49	100-41-4	
Methylene chloride	ND	ug/L	20.0	4.8	20		12/27/12 17:49	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	1.7	20		12/27/12 17:49	79-34-5	
Toluene	ND	ug/L	20.0	3.0	20		12/27/12 17:49	108-88-3	
Xylene (Total)	ND	ug/L	60.0	8.2	20		12/27/12 17:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	80-120		20		12/27/12 17:49	460-00-4	
Dibromofluoromethane (S)	108	%	80-120		20		12/27/12 17:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	80-120		20		12/27/12 17:49	17060-07-0	
Toluene-d8 (S)	99	%	80-120		20		12/27/12 17:49	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	20		12/27/12 17:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**12000**	mg/L	5.0	5.0	1		12/24/12 13:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**230**	mg/L	20.0	10.0	20		12/27/12 23:10	16887-00-6	
Fluoride	ND	mg/L	0.20	0.069	1		12/27/12 22:53	16984-48-8	
Sulfate	**7090**	mg/L	1000	59.0	1000		12/27/12 22:03	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Sample: GW-075035-121912-CM-MW-6 **Lab ID: 60135913006** Collected: 12/19/12 12:10 Received: 12/21/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**687**	ug/L	200	3.6	2	12/26/12 15:45	01/02/13 14:19	7440-42-8	
Iron, Dissolved	ND	ug/L	100	34.4	2	12/26/12 15:45	01/02/13 14:19	7439-89-6	
Manganese, Dissolved	**2340**	ug/L	10.0	1.2	2	12/26/12 15:45	01/02/13 14:19	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C								
Naphthalene	**2.3**	ug/L	0.50	0.057	1	12/26/12 00:00	12/27/12 16:05	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	69	%	40-120		1	12/26/12 00:00	12/27/12 16:05	321-60-8	
Terphenyl-d14 (S)	72	%	43-122		1	12/26/12 00:00	12/27/12 16:05	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
Benzene	**21.4**	ug/L	10.0	0.98	10		12/27/12 18:03	71-43-2	
Ethylbenzene	**180**	ug/L	10.0	2.3	10		12/27/12 18:03	100-41-4	
Methylene chloride	ND	ug/L	10.0	2.4	10		12/27/12 18:03	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	0.86	10		12/27/12 18:03	79-34-5	
Toluene	ND	ug/L	10.0	1.5	10		12/27/12 18:03	108-88-3	
Xylene (Total)	**3300**	ug/L	30.0	4.1	10		12/27/12 18:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		10		12/27/12 18:03	460-00-4	
Dibromofluoromethane (S)	102	%	80-120		10		12/27/12 18:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	80-120		10		12/27/12 18:03	17060-07-0	
Toluene-d8 (S)	97	%	80-120		10		12/27/12 18:03	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	10		12/27/12 18:03		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**34600**	mg/L	5.0	5.0	1		12/24/12 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**392**	mg/L	20.0	10.0	20		12/27/12 23:44	16887-00-6	
Fluoride	ND	mg/L	0.20	0.069	1		12/27/12 23:27	16984-48-8	
Sulfate	**27300**	mg/L	2000	118	2000		12/28/12 00:00	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Sample: GW-075035-121912-CM-MW-7 **Lab ID: 60135913007** Collected: 12/19/12 14:30 Received: 12/21/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**803**	ug/L	200	3.6	2	12/26/12 15:45	01/02/13 14:21	7440-42-8	
Iron, Dissolved	**779**	ug/L	100	34.4	2	12/26/12 15:45	01/02/13 14:21	7439-89-6	
Manganese, Dissolved	**2420**	ug/L	10.0	1.2	2	12/26/12 15:45	01/02/13 14:21	7439-96-5	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C								
Naphthalene	ND	ug/L	0.50	0.057	1	12/26/12 00:00	12/27/12 16:24	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	76	%	40-120		1	12/26/12 00:00	12/27/12 16:24	321-60-8	
Terphenyl-d14 (S)	91	%	43-122		1	12/26/12 00:00	12/27/12 16:24	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
Benzene	**1.0**	ug/L	1.0	0.098	1		12/28/12 10:44	71-43-2	
Ethylbenzene	**39.7**	ug/L	1.0	0.23	1		12/28/12 10:44	100-41-4	
Methylene chloride	ND	ug/L	1.0	0.24	1		12/28/12 10:44	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.086	1		12/28/12 10:44	79-34-5	
Toluene	ND	ug/L	1.0	0.15	1		12/28/12 10:44	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.41	1		12/28/12 10:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		12/28/12 10:44	460-00-4	
Dibromofluoromethane (S)	102	%	80-120		1		12/28/12 10:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		12/28/12 10:44	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		12/28/12 10:44	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		12/28/12 10:44		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**13800**	mg/L	5.0	5.0	1		12/24/12 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**124**	mg/L	20.0	10.0	20		12/28/12 00:34	16887-00-6	
Fluoride	**0.84**	mg/L	0.20	0.069	1		12/28/12 00:17	16984-48-8	
Sulfate	**10300**	mg/L	2000	118	2000		12/28/12 00:50	14808-79-8	

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ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Sample: GW-075035-121912-CM-DUP **Lab ID: 60135913008** Collected: 12/19/12 12:15 Received: 12/21/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Benzene	**21.9**	ug/L	10.0	0.98	10		12/27/12 18:32	71-43-2	
Ethylbenzene	**198**	ug/L	10.0	2.3	10		12/27/12 18:32	100-41-4	
Toluene	ND	ug/L	10.0	1.5	10		12/27/12 18:32	108-88-3	
Xylene (Total)	**3530**	ug/L	30.0	4.1	10		12/27/12 18:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	80-120		10		12/27/12 18:32	460-00-4	
Dibromofluoromethane (S)	102	%	80-120		10		12/27/12 18:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	80-120		10		12/27/12 18:32	17060-07-0	
Toluene-d8 (S)	102	%	80-120		10		12/27/12 18:32	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	10		12/27/12 18:32		

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

QC Batch: MPRP/20997 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60135913001, 60135913002, 60135913003, 60135913004, 60135913005, 60135913006, 60135913007

METHOD BLANK: 1119697 Matrix: Water
Associated Lab Samples: 60135913001, 60135913002, 60135913003, 60135913004, 60135913005, 60135913006, 60135913007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	01/02/13 13:46	
Iron, Dissolved	ug/L	ND	50.0	01/02/13 13:46	
Manganese, Dissolved	ug/L	ND	5.0	01/02/13 13:46	

LABORATORY CONTROL SAMPLE: 1119698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	974	97	80-120	
Iron, Dissolved	ug/L	10000	9980	100	80-120	
Manganese, Dissolved	ug/L	1000	991	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1119699 1119700

Parameter	Units	60135913001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	1230	1000	1000	2280	2260	105	103	75-125	1	20	
Iron, Dissolved	ug/L	1250	10000	10000	10900	10800	96	96	75-125	1	20	
Manganese, Dissolved	ug/L	886	1000	1000	1810	1790	92	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

QC Batch: MSV/51043 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60135913002, 60135913003, 60135913004, 60135913005, 60135913006, 60135913008

METHOD BLANK: 1120012 Matrix: Water
Associated Lab Samples: 60135913002, 60135913003, 60135913004, 60135913005, 60135913006, 60135913008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/27/12 15:53	
Benzene	ug/L	ND	1.0	12/27/12 15:53	
Ethylbenzene	ug/L	ND	1.0	12/27/12 15:53	
Methylene chloride	ug/L	ND	1.0	12/27/12 15:53	
Toluene	ug/L	ND	1.0	12/27/12 15:53	
Xylene (Total)	ug/L	ND	3.0	12/27/12 15:53	
1,2-Dichloroethane-d4 (S)	%	94	80-120	12/27/12 15:53	
4-Bromofluorobenzene (S)	%	102	80-120	12/27/12 15:53	
Dibromofluoromethane (S)	%	104	80-120	12/27/12 15:53	
Toluene-d8 (S)	%	100	80-120	12/27/12 15:53	

LABORATORY CONTROL SAMPLE: 1120013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	71-121	
Benzene	ug/L	20	21.1	106	74-123	
Ethylbenzene	ug/L	20	21.0	105	76-123	
Methylene chloride	ug/L	20	16.9	85	72-127	
Toluene	ug/L	20	20.2	101	75-123	
Xylene (Total)	ug/L	60	64.8	108	76-123	
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Dibromofluoromethane (S)	%			106	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1120014 1120015

Parameter	Units	60135732012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,2,2-Tetrachloroethane	ug/L	<0.086	20	20	17.7	18.5	89	93	59-131	4	29	
Benzene	ug/L	<0.098	20	20	20.8	21.1	104	106	40-155	2	45	
Ethylbenzene	ug/L	<0.23	20	20	20.1	21.3	101	107	40-158	6	48	
Methylene chloride	ug/L	<0.24	20	20	16.8	17.4	84	87	60-137	3	28	
Toluene	ug/L	<0.15	20	20	19.3	20.4	97	102	42-151	5	46	
Xylene (Total)	ug/L	<0.41	60	60	60.7	63.5	101	106	40-151	5	45	
1,2-Dichloroethane-d4 (S)	%						99	96	80-120			
4-Bromofluorobenzene (S)	%						102	99	80-120			
Dibromofluoromethane (S)	%						107	103	80-120			
Toluene-d8 (S)	%						99	101	80-120			
Preservation pH		1.0			1.0	1.0				0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

QC Batch: MSV/51049
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60135913001

METHOD BLANK: 1120111 Matrix: Water
Associated Lab Samples: 60135913001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/27/12 21:40	
Benzene	ug/L	ND	1.0	12/27/12 21:40	
Ethylbenzene	ug/L	ND	1.0	12/27/12 21:40	
Methylene chloride	ug/L	ND	1.0	12/27/12 21:40	
Toluene	ug/L	ND	1.0	12/27/12 21:40	
Xylene (Total)	ug/L	ND	3.0	12/27/12 21:40	
1,2-Dichloroethane-d4 (S)	%	101	80-120	12/27/12 21:40	
4-Bromofluorobenzene (S)	%	101	80-120	12/27/12 21:40	
Dibromofluoromethane (S)	%	101	80-120	12/27/12 21:40	
Toluene-d8 (S)	%	102	80-120	12/27/12 21:40	

LABORATORY CONTROL SAMPLE: 1120112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	100	71-121	
Benzene	ug/L	20	20.9	104	74-123	
Ethylbenzene	ug/L	20	21.5	107	76-123	
Methylene chloride	ug/L	20	17.3	86	72-127	
Toluene	ug/L	20	20.8	104	75-123	
Xylene (Total)	ug/L	60	65.6	109	76-123	
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			105	80-120	
Toluene-d8 (S)	%			103	80-120	

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

QC Batch: MSV/51062
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60135913007

METHOD BLANK: 1120421 Matrix: Water
Associated Lab Samples: 60135913007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/28/12 10:15	
Benzene	ug/L	ND	1.0	12/28/12 10:15	
Ethylbenzene	ug/L	ND	1.0	12/28/12 10:15	
Methylene chloride	ug/L	ND	1.0	12/28/12 10:15	
Toluene	ug/L	ND	1.0	12/28/12 10:15	
Xylene (Total)	ug/L	ND	3.0	12/28/12 10:15	
1,2-Dichloroethane-d4 (S)	%	98	80-120	12/28/12 10:15	
4-Bromofluorobenzene (S)	%	102	80-120	12/28/12 10:15	
Dibromofluoromethane (S)	%	100	80-120	12/28/12 10:15	
Toluene-d8 (S)	%	100	80-120	12/28/12 10:15	

LABORATORY CONTROL SAMPLE: 1120422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	21.1	106	71-121	
Benzene	ug/L	20	20.8	104	74-123	
Ethylbenzene	ug/L	20	21.5	107	76-123	
Methylene chloride	ug/L	20	18.0	90	72-127	
Toluene	ug/L	20	20.8	104	75-123	
Xylene (Total)	ug/L	60	65.2	109	76-123	
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Dibromofluoromethane (S)	%			107	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

QC Batch: OEXT/36601 Analysis Method: EPA 8270C by SIM
QC Batch Method: EPA 3510C Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60135913001, 60135913002, 60135913003, 60135913004, 60135913005, 60135913006, 60135913007

METHOD BLANK: 1119449 Matrix: Water
Associated Lab Samples: 60135913001, 60135913002, 60135913003, 60135913004, 60135913005, 60135913006, 60135913007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	0.50	12/27/12 14:09	
2-Fluorobiphenyl (S)	%	74	40-120	12/27/12 14:09	
Terphenyl-d14 (S)	%	64	43-122	12/27/12 14:09	

LABORATORY CONTROL SAMPLE: 1119450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	10	6.7	67	41-120	
2-Fluorobiphenyl (S)	%			76	40-120	
Terphenyl-d14 (S)	%			69	43-122	

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

QC Batch: WET/38967 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60135913001, 60135913002, 60135913003, 60135913004, 60135913005, 60135913006, 60135913007

METHOD BLANK: 1119313 Matrix: Water
Associated Lab Samples: 60135913001, 60135913002, 60135913003, 60135913004, 60135913005, 60135913006, 60135913007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/24/12 13:05	

SAMPLE DUPLICATE: 1119314

Parameter	Units	60135846001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1590	1560	2	17	

SAMPLE DUPLICATE: 1119315

Parameter	Units	60135908002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	280	272	3	17	

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

QC Batch: WETA/23021 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60135913001, 60135913003, 60135913004, 60135913005, 60135913006, 60135913007

METHOD BLANK: 1119918 Matrix: Water
Associated Lab Samples: 60135913001, 60135913003, 60135913004, 60135913005, 60135913006, 60135913007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	12/27/12 10:34	
Fluoride	mg/L	ND	0.20	12/27/12 10:34	
Sulfate	mg/L	ND	1.0	12/27/12 10:34	

LABORATORY CONTROL SAMPLE: 1119919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.3	106	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE SAMPLE: 1119920

Parameter	Units	60135798014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1180	500	1660	96	64-118	
Fluoride	mg/L	ND	2.5	2.6	97	75-110	
Sulfate	mg/L	168	50	208	79	61-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1119921 1119922

Parameter	Units	60135848001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	433	250	250	679	677	98	97	64-118	0	12	
Fluoride	mg/L	1.9	2.5	2.5	4.9	5.0	120	122	75-110	1	10	M1
Sulfate	mg/L	370	250	250	602	601	93	92	61-119	0	10	

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QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

QC Batch: WETA/23044
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60135913002

METHOD BLANK: 1120439 Matrix: Water
Associated Lab Samples: 60135913002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	12/28/12 11:17	
Fluoride	mg/L	ND	0.20	12/28/12 11:17	
Sulfate	mg/L	ND	1.0	12/28/12 11:17	

LABORATORY CONTROL SAMPLE: 1120440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	99	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

MATRIX SPIKE SAMPLE: 1120441

Parameter	Units	60135935001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	169	50	217	95	64-118	
Fluoride	mg/L	ND	25	25.6	102	75-110	
Sulfate	mg/L	727	250	939	85	61-119	

MATRIX SPIKE SAMPLE: 1120442

Parameter	Units	60136047001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	317	250	544	91	64-118	
Fluoride	mg/L	ND	125	117	93	75-110	
Sulfate	mg/L	69.6	250	305	94	61-119	

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QUALIFIERS

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 60135913001
[1] Client did not receive appropriate containers for method 8270, aliquot was taken from unpreserved plastic for Naphthalene by 8270.

Sample: 60135913002
[1] Client did not receive appropriate containers for method 8270, aliquot was taken from unpreserved plastic for Naphthalene by 8270.

Sample: 60135913003
[1] Client did not receive appropriate containers for method 8270, aliquot was taken from unpreserved plastic for Naphthalene by 8270.

Sample: 60135913004
[1] Client did not receive appropriate containers for method 8270, aliquot was taken from unpreserved plastic for Naphthalene by 8270.

Sample: 60135913005
[1] Client did not receive appropriate containers for method 8270, aliquot was taken from unpreserved plastic for Naphthalene by 8270.

Sample: 60135913006
[1] Client did not receive appropriate containers for method 8270, aliquot was taken from unpreserved plastic for Naphthalene by 8270.

Sample: 60135913007
[1] Client did not receive appropriate containers for method 8270, aliquot was taken from unpreserved plastic for Naphthalene by 8270.

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QUALIFIERS

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

BATCH QUALIFIERS

Batch: MSV/51049
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/51062
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60135913

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60135913001	**GW-075035-122012-CM-MW-1**	EPA 3010	MPRP/20997	EPA 6010	ICP/17000
60135913002	**GW-075035-121912-CM-MW-2**	EPA 3010	MPRP/20997	EPA 6010	ICP/17000
60135913003	**GW-075035-121912-CM-MW-3**	EPA 3010	MPRP/20997	EPA 6010	ICP/17000
60135913004	**GW-075035-121912-CM-MW-4**	EPA 3010	MPRP/20997	EPA 6010	ICP/17000
60135913005	**GW-075035-121912-CM-MW-5**	EPA 3010	MPRP/20997	EPA 6010	ICP/17000
60135913006	**GW-075035-121912-CM-MW-6**	EPA 3010	MPRP/20997	EPA 6010	ICP/17000
60135913007	**GW-075035-121912-CM-MW-7**	EPA 3010	MPRP/20997	EPA 6010	ICP/17000
60135913001	**GW-075035-122012-CM-MW-1**	EPA 3510C	OEXT/36601	EPA 8270C by SIM	MSSV/11565
60135913002	**GW-075035-121912-CM-MW-2**	EPA 3510C	OEXT/36601	EPA 8270C by SIM	MSSV/11565
60135913003	**GW-075035-121912-CM-MW-3**	EPA 3510C	OEXT/36601	EPA 8270C by SIM	MSSV/11565
60135913004	**GW-075035-121912-CM-MW-4**	EPA 3510C	OEXT/36601	EPA 8270C by SIM	MSSV/11565
60135913005	**GW-075035-121912-CM-MW-5**	EPA 3510C	OEXT/36601	EPA 8270C by SIM	MSSV/11565
60135913006	**GW-075035-121912-CM-MW-6**	EPA 3510C	OEXT/36601	EPA 8270C by SIM	MSSV/11565
60135913007	**GW-075035-121912-CM-MW-7**	EPA 3510C	OEXT/36601	EPA 8270C by SIM	MSSV/11565
60135913001	**GW-075035-122012-CM-MW-1**	EPA 5030B/8260	MSV/51049		
60135913002	**GW-075035-121912-CM-MW-2**	EPA 5030B/8260	MSV/51043		
60135913003	**GW-075035-121912-CM-MW-3**	EPA 5030B/8260	MSV/51043		
60135913004	**GW-075035-121912-CM-MW-4**	EPA 5030B/8260	MSV/51043		
60135913005	**GW-075035-121912-CM-MW-5**	EPA 5030B/8260	MSV/51043		
60135913006	**GW-075035-121912-CM-MW-6**	EPA 5030B/8260	MSV/51043		
60135913007	**GW-075035-121912-CM-MW-7**	EPA 5030B/8260	MSV/51062		
60135913008	**GW-075035-121912-CM-DUP**	EPA 5030B/8260	MSV/51043		
60135913001	**GW-075035-122012-CM-MW-1**	SM 2540C	WET/38967		
60135913002	**GW-075035-121912-CM-MW-2**	SM 2540C	WET/38967		
60135913003	**GW-075035-121912-CM-MW-3**	SM 2540C	WET/38967		
60135913004	**GW-075035-121912-CM-MW-4**	SM 2540C	WET/38967		
60135913005	**GW-075035-121912-CM-MW-5**	SM 2540C	WET/38967		
60135913006	**GW-075035-121912-CM-MW-6**	SM 2540C	WET/38967		
60135913007	**GW-075035-121912-CM-MW-7**	SM 2540C	WET/38967		
60135913001	**GW-075035-122012-CM-MW-1**	EPA 300.0	WETA/23021		
60135913002	**GW-075035-121912-CM-MW-2**	EPA 300.0	WETA/23044		
60135913003	**GW-075035-121912-CM-MW-3**	EPA 300.0	WETA/23021		
60135913004	**GW-075035-121912-CM-MW-4**	EPA 300.0	WETA/23021		
60135913005	**GW-075035-121912-CM-MW-5**	EPA 300.0	WETA/23021		
60135913006	**GW-075035-121912-CM-MW-6**	EPA 300.0	WETA/23021		
60135913007	**GW-075035-121912-CM-MW-7**	EPA 300.0	WETA/23021		

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Sample Condition Upon Receipt
ESI Tech Spec Client

WO# : 60135913

60135913

Client Name: COP CRA NM

Optional
Proj Due Date: 1/4
Proj Name:

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

Tracking #: 8001 8200 4824 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 ☑ ZPLC

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

Cooler Temperature: 3.7

Date and initials of person examining contents: 12/21/12 BA

Temperature should be above freezing to 6°C

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	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☑Yes ☐No ☐N/A BA 12/21/12	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes ☑No ☐N/A	
Pace Trip Blank lot # (if purchased):		15. No trip blanks in cooler.
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: Christine Mathews Date/Time:

Comments/ Resolution: Per client - no trip blank sent 12/21/12
Run 1ooml unp. volume for 8270 Naphthalen-Preg container comment)

Project Manager Review: AAF Date: 12/21/12

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

Start: 1230	Start:
End: 1235	End:
Temp:	Temp:

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Page: 1 of 1

Section A — Required Client Information:

Company:	COP CRA NM
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
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	Martin 34 No. 2
Project Number:	075035

Section C — Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	5341, 7

REGULATORY AGENCY

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

Site Location STATE: NM

Section D — Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260**** & Naphthalene	Dissolved Fe, Mn, B	TDS	300.0 **	8270 Naphthalene	BTEX ONLY	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-075035-122012-CM-MW-1	WT	G			12.20.12	1030		6	X		X	X					X	X	X	X				60135913
2	GW-075035-121912-CM-MW-2	WT	G			12.19.12	1230		6	X		X	X					X	X	X	X				002
3	GW-075035-121912-CM-MW-3	WT	G			12.19.12	1245		6	X		X	X					X	X	X	X				003
4	GW-075035-121912-CM-MW-4	WT	G			12.19.12	1410		6	X		X	X					X	X	X	X				004
5	GW-075035-121912-CM-MW-5	WT	G			12.19.12	1455		6	X		X	X					X	X	X	X				005
6	GW-075035-121912-CM-MW-6	WT	G			12.19.12	1210		6	X		X	X					X	X	X	X				006
7	GW-075035-121912-CM-MW-7	WT	G			12.19.12	1430		6	X		X	X					X	X	X	X				007
8	GW-075035-121912-CM-DUP	WT	G			12.19.12	1215		3				X									X			008
9	~~TB-075035-121912-CM-001~~																								
10	TB-075035-122012-CM-001	WT				12.20.12	1040		3				X									X			
11																									
12																									

Pace Project No./ Lab I.D.: 1BP3F 2BP3H 3DGTH

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
***BTEX, Methylene Chloride, 1,1,2,2-Tetrachloroethane AND Naphthalene				Brent C/Lo	12/21/12	1115
**Chloride, Sulfate, Fluoride						
8270 containers were not provided. Listed on packing form but not included. No seal provided No shipping (FedEx) lable provided Used one from previous project						

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Christine Mathews
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 12/20/12

*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