

3R – 429

2014 AGWMR

04 / 16 / 2015



John F. (Rick) Greiner, CPG, P.G.
ConocoPhillips Company
Risk Management & Remediation Program
Manager/Director Corp. Waste Management
Program
600 N. Dairy Ashford, MA 1004
Houston, TX 77079
Phone: 281-293-3264
E-mail: Rick.Greiner@conocophillips.com

Mr. Glenn von Gonten
New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

April 16, 2015

Re: NMOCD Case No. 3R-429, 2014 Annual Groundwater Monitoring Report

Dear Mr. von Gonten:

Enclosed is the 2014 Annual Groundwater Monitoring Report for the Martin 34 No. 2 site. This report, prepared by Conestoga-Rovers & Associates (CRA), contains the results of groundwater monitoring from March, June, and September 2014.

Please let me know if you have any questions.

Sincerely,

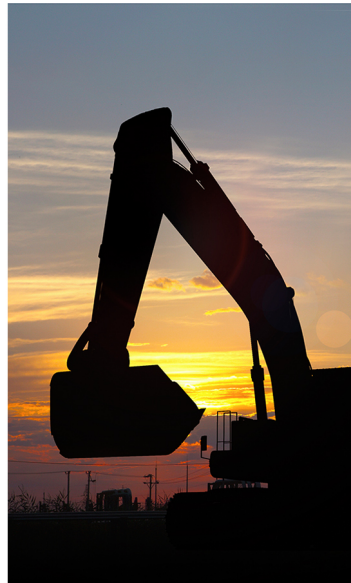
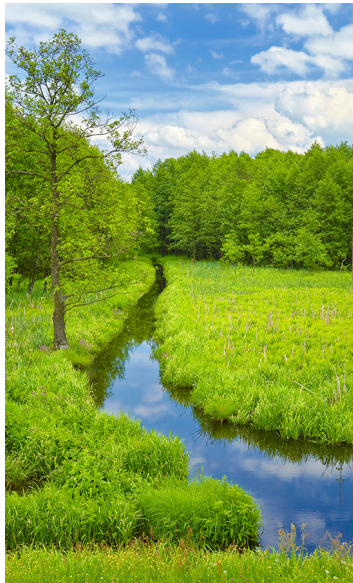
A handwritten signature in black ink that reads "John F. Greiner".

Rick Greiner

Enc



www.CRAworld.com



2014 Annual Groundwater Monitoring Report

ConocoPhillips Martin 34 No. 2
San Juan County, New Mexico
API# 30-045-08934
NMOCD# 3R-429

Prepared for: ConocoPhillips Company

Conestoga-Rovers & Associates

6121 Indian School Road, NE Suite 200
Albuquerque, New Mexico 87110

March 2015 • 075035 • Report No. 5



Table of Contents

	Page
Section 1.0 Introduction.....	1
1.1 Site Background	1
Section 2.0 Groundwater Monitoring Summary, Sampling Methodology and Results....	3
2.1 Groundwater Monitoring Summary	3
2.2 Groundwater Sampling Methodology	4
2.3 2014 Groundwater Monitoring Results	4
Section 3.0 Conclusions and Recommendations.....	9

List of Figures (Following Text)

Figure 1	Site Vicinity Map
Figure 2	Site Detail Map
Figure 3	Generalized Geologic Cross Section A – A'
Figure 4	Generalized Geologic Cross Section B – B'
Figure 5	March 2014 Potentiometric Surface Map
Figure 6	June 2014 Potentiometric Surface Map
Figure 7	September 2014 Potentiometric Surface Map
Figure 8	March 2014 Groundwater Benzene Concentration Map
Figure 9	June 2014 Groundwater Benzene Concentration Map
Figure 10	September 2014 Groundwater Benzene Concentration Map

**List of Tables
(Following Text)**

Table 1	Site History Timeline
Table 2	Groundwater Laboratory Analytical Results Summary
Table 3	Field Parameters Summary
Table 4	Monitoring Well Specifications and Groundwater Elevation Summary

List of Appendices

Appendix A	Groundwater Laboratory Analytical Reports
------------	---

Section 1.0 Introduction

This report details the results of quarterly groundwater monitoring events conducted by Conestoga-Rovers & Associates, Inc. (CRA) on March 19, June 17, and September 17, 2014 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. A Site vicinity map is included as **Figure 1**.

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 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 (see **Figure 2**), 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 up-gradient and in B-3 located down-gradient 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 zones of B-2 and B-3 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 groundwater monitoring 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. Total dissolved solids (TDS) concentrations in groundwater of wells MW-1, MW-2, MW-3 and MW-4 were in excess of 10,000 parts per million (ppm).

Between November 9th and 10th, 2011, JR Drilling, LLC (JR Drilling) of Edgewood, New Mexico advanced soil borings B-4, B-5, B-6, and B-7 at the Site under the supervision of CRA using a truck-mounted, direct push, Geoprobe[®] rig. 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 recommended remedial action limits (RRALs) 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.

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

were collected for laboratory analysis from all three of the monitoring well soil borings. Results for all soil samples had concentrations of BTEX, TPH-GRO, and TPH-DRO at levels below NMOCD RRALs 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 monitoring well installation, only 0.9 feet of water accumulated in the well overnight. TDS concentrations in groundwater of wells MW-5, MW-6, and MW-7 were in excess of 10,000 ppm.

On July 18, 2013, CRA supervised the installation of an additional up-gradient monitoring well (MW-8) in order to further assess background conditions at the Site. MW-8 was installed to a total depth of 55 feet bgs. Groundwater samples collected from MW-8 following installation were non-detect for all organic constituents of concern (COCs); however, inorganic COCs were detected at levels consistent with other Site monitoring wells. TDS concentrations in groundwater of up-gradient well MW-8 are in excess of 10,000 ppm.

A meeting was held with the New Mexico Oil Conservation Division (NMOCD) on October 30, 2014 to discuss Site conditions. Because all Site monitoring wells, including the most recently installed up-gradient well MW-8, have concentrations of TDS well in excess of 10,000 ppm, CRA requested Site closure be granted. The NMOCD representative, Jim Griswold, agreed Site closure was warranted and would look at formal request for closure. A groundwater monitoring event was not conducted during December of 2014 pending this Site closure request.

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

Section 2.0 Groundwater Monitoring Summary, Sampling Methodology and Results

2.1 Groundwater Monitoring Summary

Quarterly groundwater quality monitoring events were conducted on March 19, June 17, and September 17, 2014. Prior to collection of groundwater samples from Site monitoring wells,

depth to groundwater in each well was determined using an oil/water interface probe. Potentiometric surface maps are presented as Figures 5, 6, and 7. These data show that the groundwater gradient at the site is to the south. A summary of groundwater elevation data is included in **Table 2**.

It should be noted that stratigraphic correlation is poor between MW-5 and other Site monitoring 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 monitoring 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 monitoring well, groundwater parameters, including temperature, pH, conductivity, oxidation/reduction potential, and total dissolved solids (TDS), were measured using a calibrated multi-parameter meter. Parameters were recorded along with general observations such as color, odor, and clarity. Field parameters are summarized in **Table 3**.

All groundwater samples 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 2014 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. Exceedances of NMWQCC groundwater quality standards in Site monitoring wells during 2014 quarterly groundwater monitoring events are discussed below. The corresponding laboratory analytical reports for 2014 quarterly sampling events, including quality control documentation, are included in **Appendix A**. Groundwater benzene concentration maps for each sampling event are included as **Figures 8, 9, and 10**. A summary of all groundwater analytical data is included as **Table 4** and discussed below.

Benzene

The groundwater quality standard for benzene is 0.010 milligrams per liter (mg/L). Groundwater samples collected from MW-1, MW-2, and MW-5 contained concentrations of benzene greater than the NMWQCC standard during all three 2014 monitoring events. Groundwater samples collected from Monitoring Well MW-7 exceeded the standard for benzene during the March and June 2014 event. The sample collected from MW-6 during June exceeded the standard for benzene during the June 2014 event.

Toluene

The groundwater quality standard for toluene is 0.750 mg/L. Groundwater samples collected from Monitoring Well MW-1 contained concentrations of toluene greater than the NMWQCC standard during all three 2014 quarterly monitoring events.

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 greater than the NMWQCC standard during all three 2014 quarterly monitoring events.

Methylene Chloride

The groundwater quality standard for methylene chloride is 0.1 mg/L. Groundwater samples collected from MW-1 during the June 2014 monitoring event contained methylene chloride at a concentration greater than the NMWQCC standard.

Naphthalene

The groundwater quality standard for naphthalene is 0.030 mg/L. Groundwater samples collected from Monitoring Well MW-1 contained concentrations of naphthalene greater than the NMWQCC standard during all three 2014 quarterly monitoring events.

Dissolved Boron

The groundwater quality standard for dissolved boron is 0.75 mg/L. Groundwater samples collected from Monitoring Wells MW-1, MW-4, and MW-5 contained dissolved boron at concentration greater than the NMWQCC standard during all three quarterly 2014 events. Samples collected from wells MW-2, MW-3, MW-7, and MW-8 exceeded the standard for dissolved boron during both the March and September 2014 events. Groundwater collected from one well, MW-6 had a dissolved boron concentrations greater than the NMWQCC standard only during the March 2014 monitoring event.

Dissolved Manganese

The groundwater quality standard for dissolved manganese is 0.2 mg/L. Groundwater samples collected from Monitoring Wells MW-2, MW-4, MW-5, MW-6, MW-7, and MW-8 contained dissolved manganese in concentrations greater than the NMWQCC standard during all three 2014 quarterly monitoring events. Samples collected from MW-1 also had concentrations greater than the standard during both the March and June 2014 events. Groundwater collected from W-3 had a dissolved manganese concentration greater than the NMWQCC standard only during the September 2014 monitoring event.

Dissolved Iron

The groundwater quality standard for dissolved iron is 1.0 mg/L. Groundwater samples collected from Monitoring Well MW-2 contained dissolved iron at concentrations greater than the NMWQCC standard during all three 2014 monitoring events. Groundwater collected from MW-7 contained dissolved iron above standard during both the March and June 2014 events. Groundwater collected from one well, MW-5 had a dissolved iron concentration greater than the NMWQCC standard only during the March 2014 monitoring event.

Fluoride

The groundwater quality standard for fluoride is 1.6 mg/L. Groundwater samples collected from Monitoring Wells MW-4 and MW-7 were found to contain fluoride in concentrations greater than the NMWQCC standard during the March 2014 monitoring event.

Chloride

The groundwater quality standard for chloride is 250 mg/L. Groundwater samples collected from Monitoring Wells MW-1, MW-2, MW-3, MW-4, MW-6, and MW-8 were found to contain chloride in concentrations greater than the NMWQCC standard during all three 2014 monitoring events. Groundwater samples collected from MW-7 contained chloride greater than the standard during both the March and June 2014 events.

Sulfate

The NMWQCC groundwater quality standard for sulfate is 600 mg/L. Groundwater samples collected from all Site monitoring wells contained sulfate in concentrations greater than the standard during all three 2014 monitoring events.

Total Dissolved Solids

The NMWQCC groundwater quality standard for TDS is 1,000 mg/L. Groundwater samples collected from all Site monitoring wells were found to contain TDS concentrations greater than the standard during all three 2014 monitoring events.

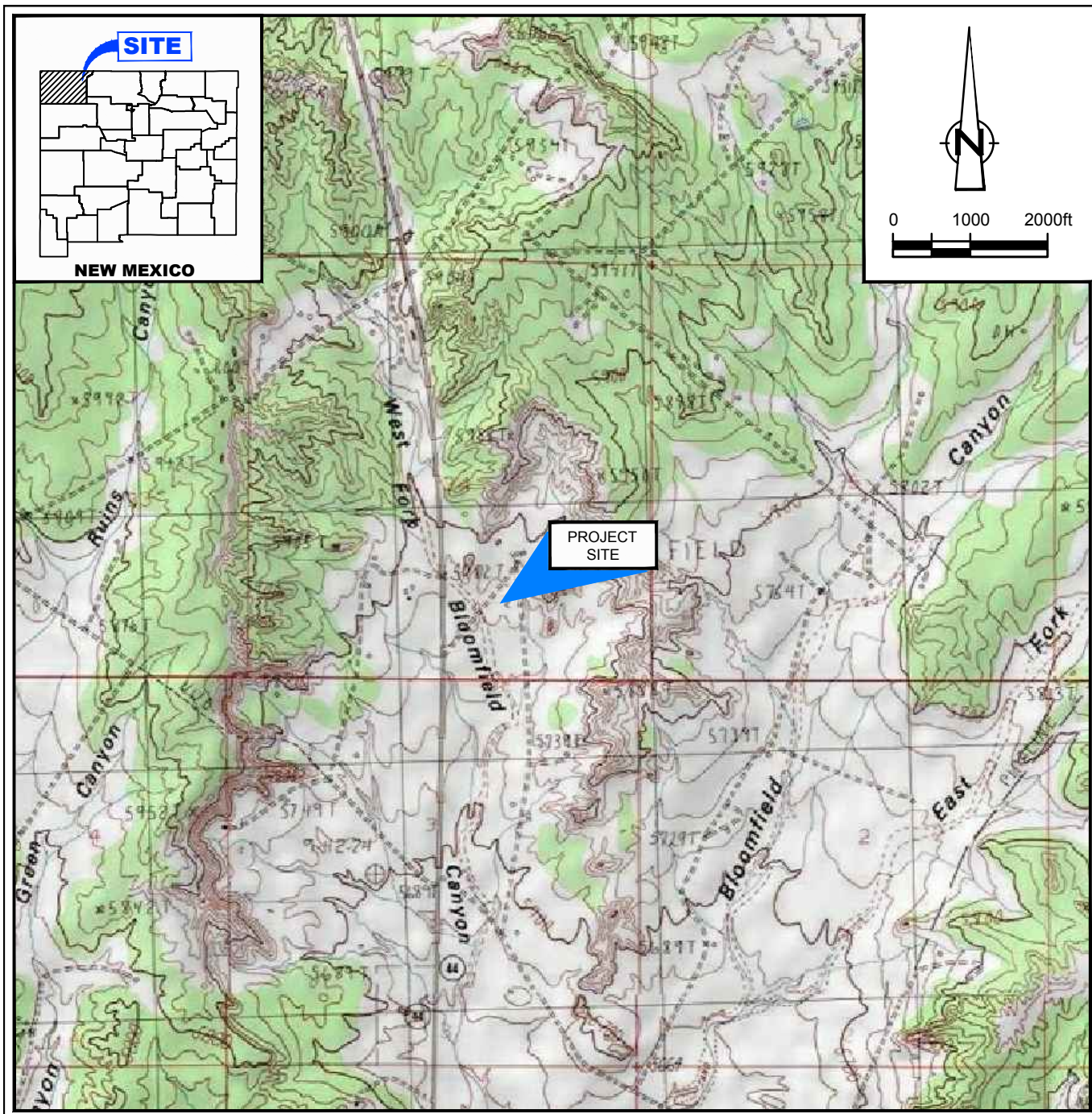
Section 3.0 Conclusions and Recommendations

CRA conducted quarterly groundwater monitoring events during March, June, and September, 2014 at the Martin 34 No. 2 site.

On July 18, 2013, CRA supervised the installation of an additional up-gradient monitoring well (MW-8) in order to further assess groundwater quality up-gradient from the Site. Groundwater samples collected from MW-8 since its installation have been non-detect for all organic COCs; however, inorganic COCs have been reported at levels consistent with other Site monitoring wells, suggesting that the presence of inorganic COCs at the Site are background.

Furthermore, groundwater from all Site monitoring wells, including all three monitoring wells installed up-gradient of the release point, MW-4, MW-5 and MW-8, have consistently contained TDS at concentrations exceeding 10,000 mg/L since well installation, including all three sampling events during 2014. New Mexico Administrative Code 20.6.2.3101 defines protected groundwater as “groundwater of the state of New Mexico which has an existing concentration of 10,000 mg/L or less TDS.” Based on this definition of protected groundwater, CRA proposes remediation site closure at the Martin 34 No. 2 natural gas well site.

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





RE: NAIP Aerial Photograph



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

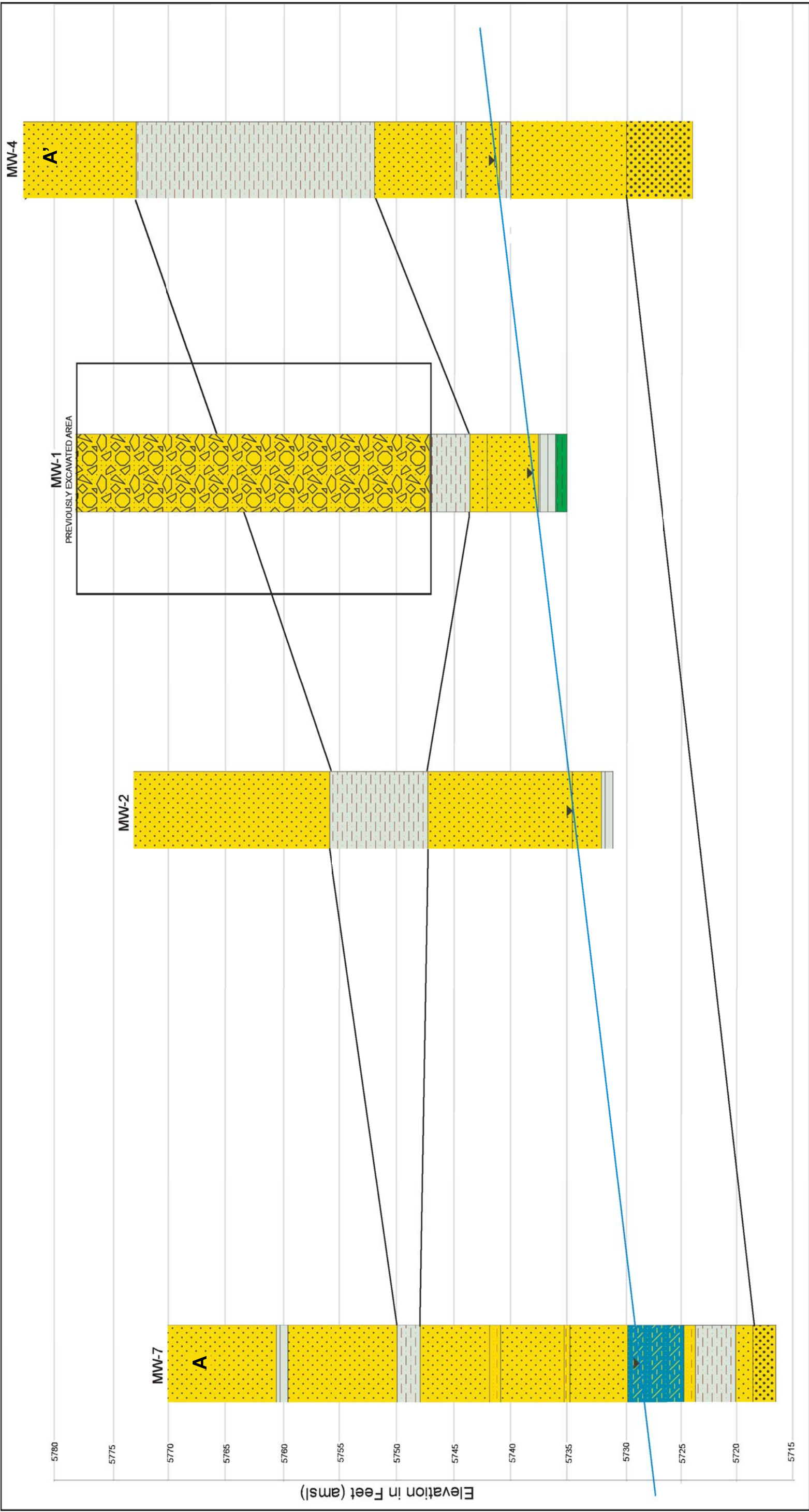
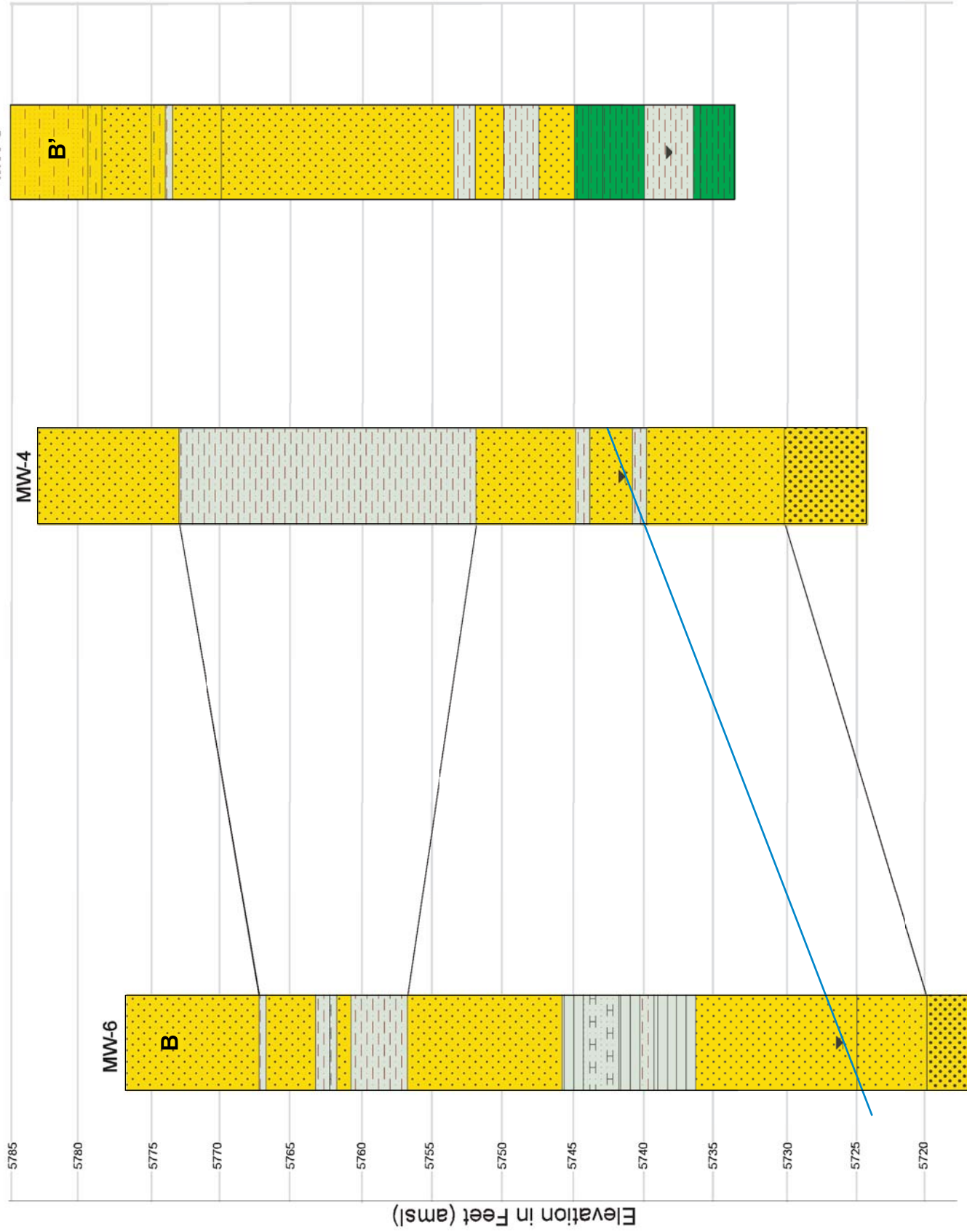


Figure 3
GENERALIZED GEOLOGIC CROSS SECTION A -A'
MARTIN 34 NO. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips company

LEGEND



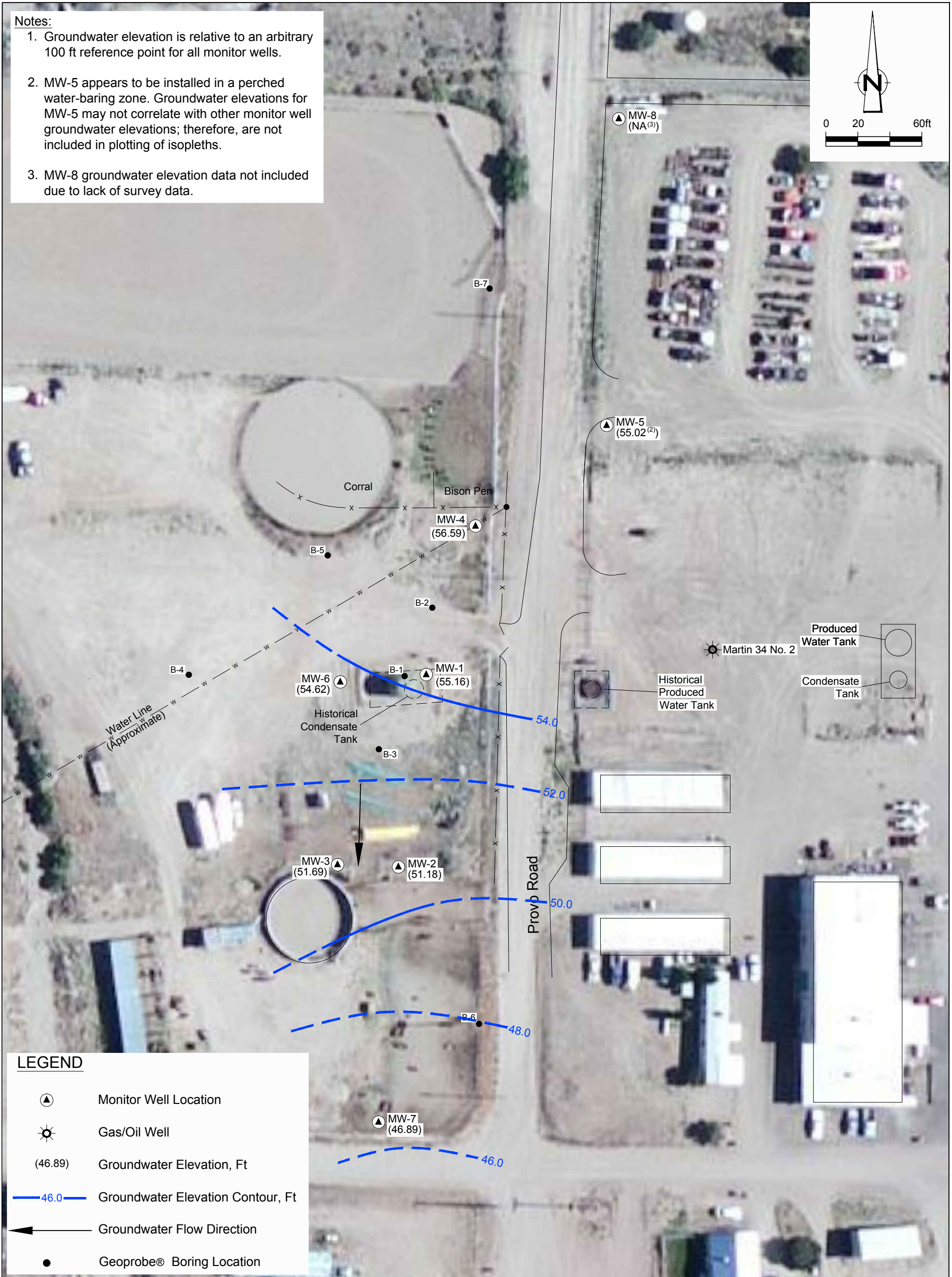
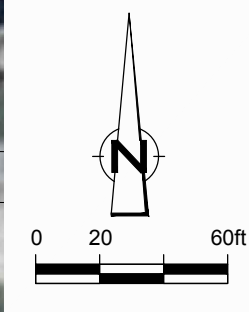
LEGEND

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



Notes:

1. Groundwater elevation is relative to an arbitrary 100 ft reference point for all monitor wells.
2. MW-5 appears to be installed in a perched water-bearing zone. Groundwater elevations for MW-5 may not correlate with other monitor well groundwater elevations; therefore, are not included in plotting of isopleths.
3. MW-8 groundwater elevation data not included due to lack of survey data.



LEGEND

- ⬆ Monitor Well Location
- ☀ Gas/Oil Well
- (46.89) Groundwater Elevation, Ft
- 46.0 — Groundwater Elevation Contour, Ft
- ← Groundwater Flow Direction
- Geoprobe® Boring Location

RE: NAIP Aerial Photograph

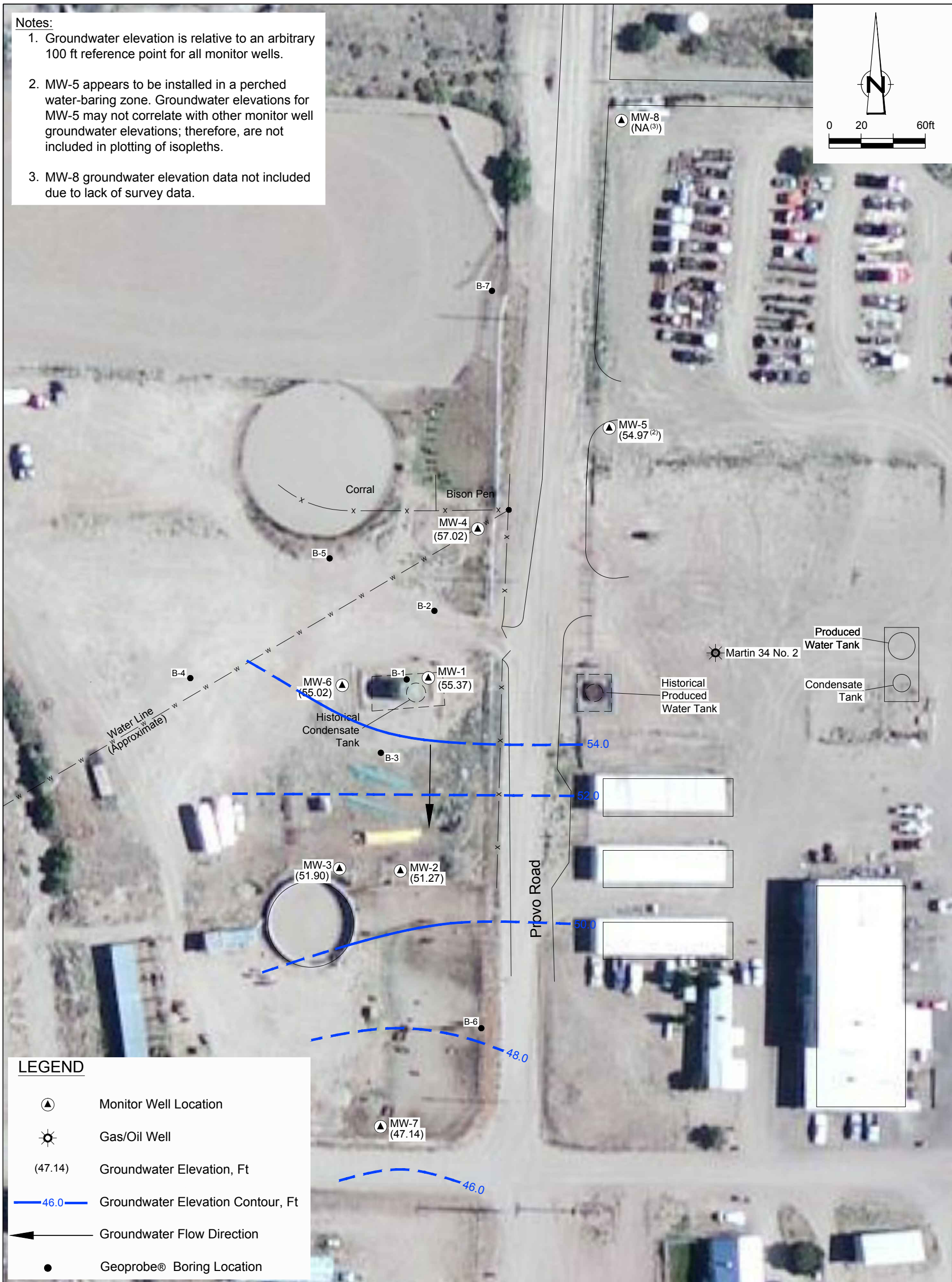
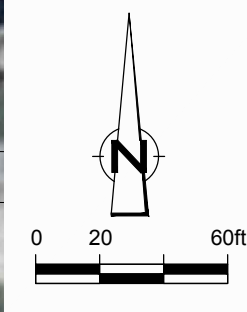
Figure 5

MARCH 2014 GROUNDWATER POTENTIOMETRIC SURFACE MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company



Notes:

1. Groundwater elevation is relative to an arbitrary 100 ft reference point for all monitor wells.
2. MW-5 appears to be installed in a perched water-bearing zone. Groundwater elevations for MW-5 may not correlate with other monitor well groundwater elevations; therefore, are not included in plotting of isopleths.
3. MW-8 groundwater elevation data not included due to lack of survey data.



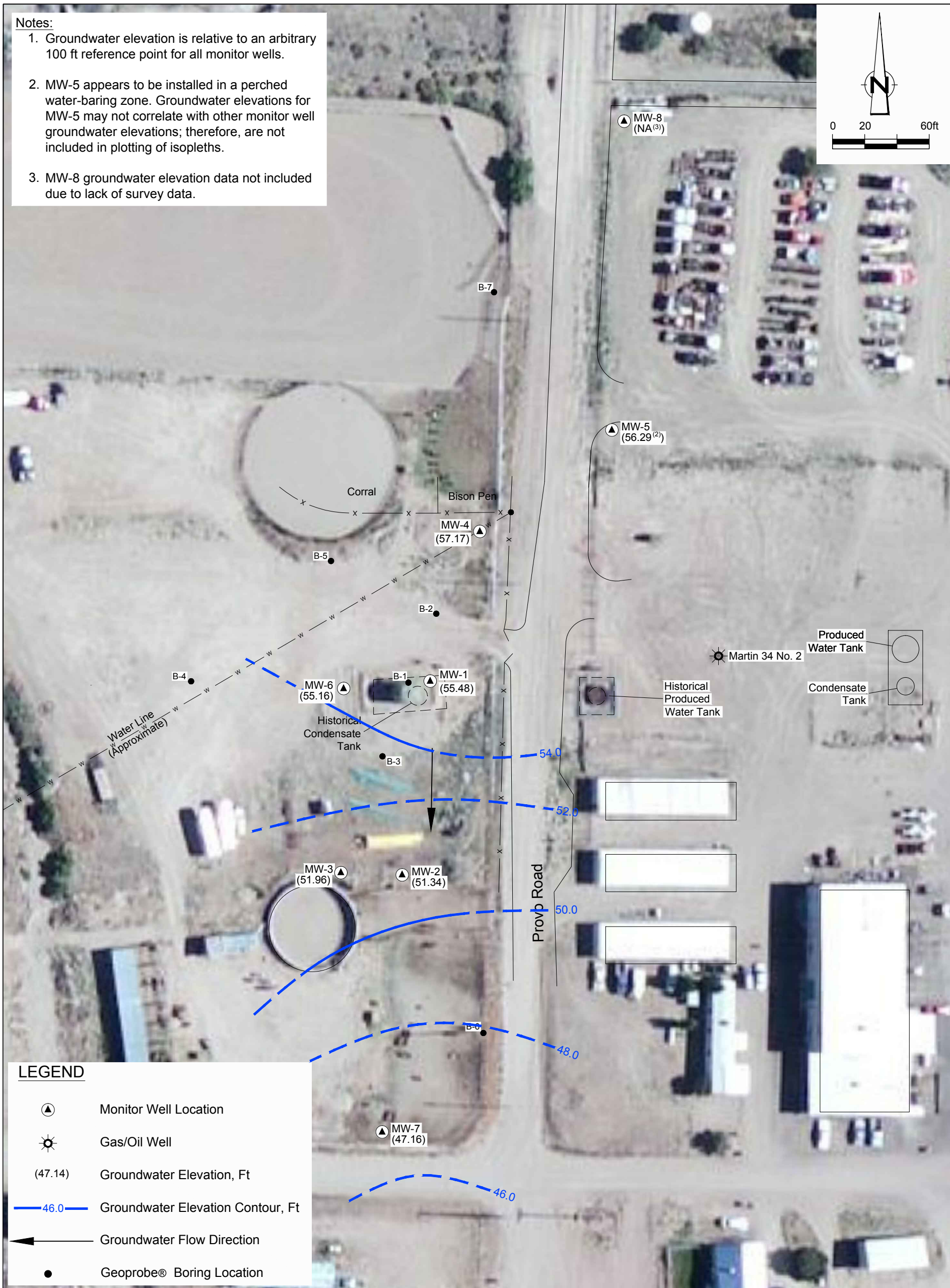
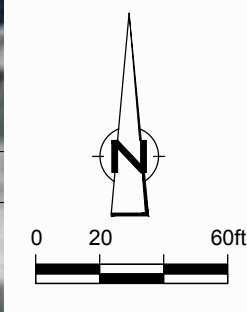
RE: NAIP Aerial Photograph

Figure 6

JUNE 2014 GROUNDWATER POTENTIOMETRIC SURFACE MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company



- Notes:
1. Groundwater elevation is relative to an arbitrary 100 ft reference point for all monitor wells.
 2. MW-5 appears to be installed in a perched water-bearing zone. Groundwater elevations for MW-5 may not correlate with other monitor well groundwater elevations; therefore, are not included in plotting of isopleths.
 3. MW-8 groundwater elevation data not included due to lack of survey data.



RE: NAIP Aerial Photograph

Figure 7

SEPTEMBER 2014 GROUNDWATER POTENTIOMETRIC SURFACE MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company





RE: NAIP Aerial Photograph



Figure 8
MARCH 2014 BENZENE CONCENTRATION MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

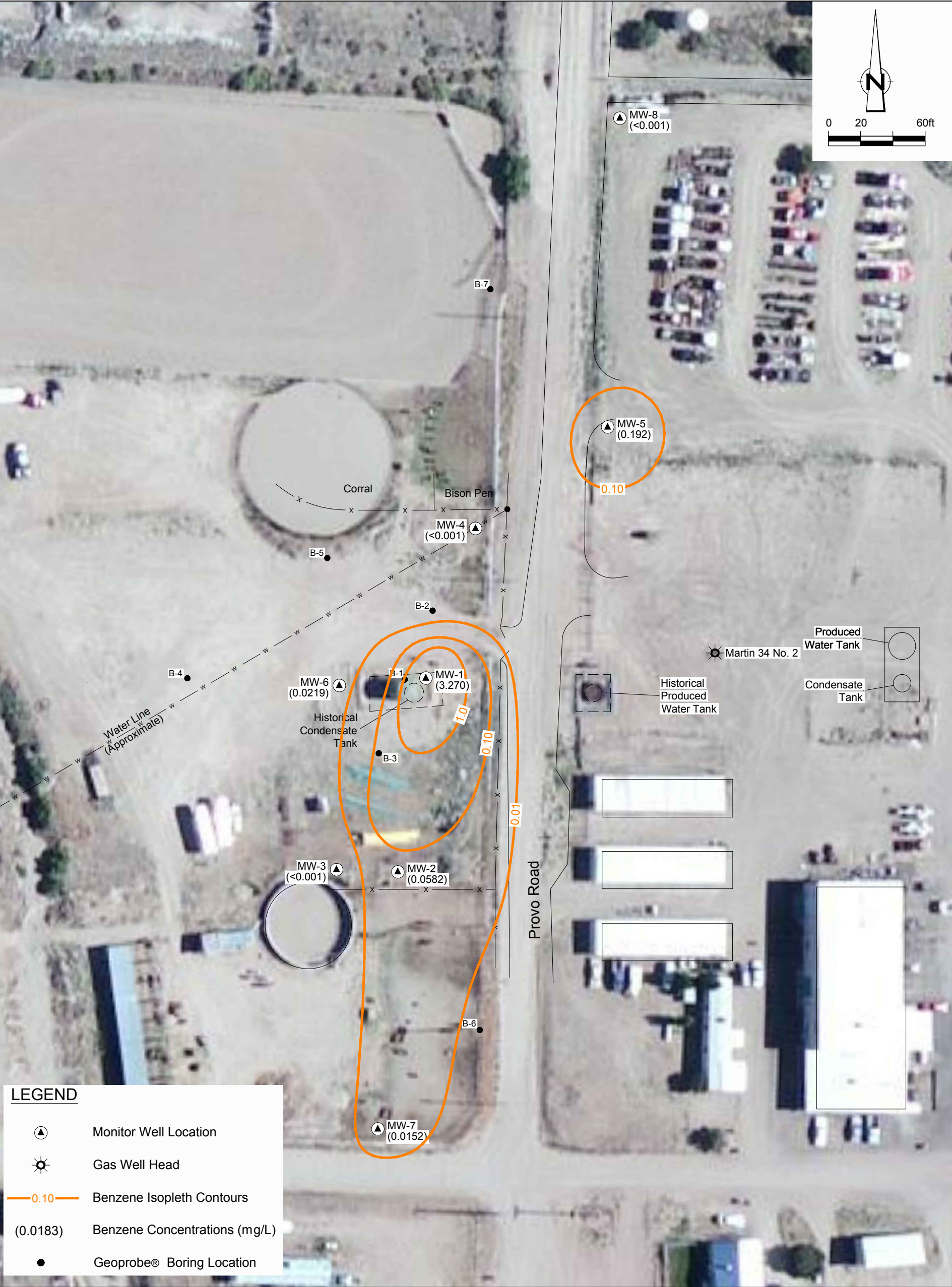


RE: NAIP Aerial Photograph

Figure 10

SEPTEMBER 2014 BENZENE CONCENTRATION MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company





RE: NAIP Aerial Photograph



Figure 9
JUNE 2014 BENZENE CONCENTRATION MAP
MARTIN 34 No. 2 GAS WELL REMEDIATION SITE
SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

Tables

TABLE 1

**SITE HISTORY TIMELINE
CONOCOPHILLIPS COMPANY
MARTIN 34 No. 2
SAN JUAN COUNTY, NEW MEXICO**

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 20 th 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	Delineation 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	Monitoring 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 manganese, 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	Delineation of Impacts	JR Drilling, under CRA supervision, advanced four soil borings using a direct-push Geoprobe [®] rig to further delineate impacts.
November 28 through December 1, 2011	Monitoring 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.
March 20, 2013	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.
June 13, 2013	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.
July 18, 2013	Monitoring Well Installation	CRA supervised the installation of monitor well MW-8 at the Site.
September 12, 2013	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.
December 19, 2013	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.
March 19, 2014	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.
June 17, 2014	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.
September 17, 2014	Quarterly Groundwater Monitoring	CRA conducted quarterly groundwater sampling.

TABLE 2

MONITORING WELL SPECIFICATIONS AND GROUNDWATER ELEVATION SUMMARY
CONOCOPHILLIPS COMPANY
MARTIN 34 No. 2
SAN JUAN COUNTY, NEW MEXICO

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
				3/19/2013	39.18	54.10
				6/13/2013	39.06	54.22
				9/12/2013	38.87	54.41
				12/17/2013	38.50	54.78
				3/19/2014	38.12	55.16
				6/17/2014	37.91	55.37
				9/17/2014	37.80	55.48
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
				3/20/2013	37.36	50.23
				6/13/2013	37.24	50.35
				9/11/2013	37.12	50.47
				12/17/2013	36.55	51.04
				3/19/2014	36.41	51.18
				6/17/2014	36.32	51.27
				9/17/2014	36.25	51.34

TABLE 2

MONITORING WELL SPECIFICATIONS AND GROUNDWATER ELEVATION SUMMARY
CONOCOPHILLIPS COMPANY
MARTIN 34 No. 2
SAN JUAN COUNTY, NEW MEXICO

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-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
				3/20/2013	36.60	50.72
				6/13/2013	36.43	50.89
				9/11/2013	36.30	51.02
				12/17/2013	35.70	51.62
				3/19/2014	35.63	51.69
				6/17/2014	35.42	51.90
				9/17/2014	35.36	51.96
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
				3/20/2013	44.32	55.50
				6/13/2013	44.14	55.68
				9/11/2013	43.97	55.85
				12/17/2013	43.55	56.27
				3/19/2014	43.23	56.59
				6/17/2014	42.80	57.02
				9/17/2014	42.65	57.17
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
				3/20/2013	43.76	54.51
				6/13/2013	44.13	54.14
				9/11/2013	45.02	53.25
				12/17/2013	44.45	53.82
				3/19/2014	43.25	55.02
				6/17/2014	43.30	54.97
				9/17/2014	41.98	56.29

TABLE 2

MONITORING WELL SPECIFICATIONS AND GROUNDWATER ELEVATION SUMMARY
CONOCOPHILLIPS COMPANY
MARTIN 34 No. 2
SAN JUAN COUNTY, NEW MEXICO

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
				3/20/2013	41.00	53.80
				6/13/2013	40.91	53.89
				9/11/2013	40.81	53.99
				12/17/2013	40.20	54.60
				3/19/2014	40.18	54.62
				6/17/2014	39.78	55.02
MW-7	51.5	36.5-51.5	86.49	9/17/2014	39.64	55.16
				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
				3/20/2013	40.33	46.16
				6/13/2013	40.20	46.29
				9/11/2013	40.12	46.37
				12/17/2013	39.70	46.79
				3/19/2014	39.60	46.89
MW-8	55.0	40-55	--	6/17/2014	39.35	47.14
				9/17/2014	39.33	47.16
				9/11/2013	42.39	--
				12/17/2013	41.80	--
				3/19/2014	41.25	--
				6/17/2014	40.90	--
				9/17/2014	40.95	--

ft = Feet

TOC = Top of casing

bgs = below ground surface

* Elevation relative to an arbitrary reference elevation of 100 feet

** Anomalous data point

TABLE 3

**FIELD PARAMETERS SUMMARY
CONOCOPHILLIPS COMPANY
MARTIN 34 NO. 2
SAN JUAN COUNTY, NEW MEXICO**

Well ID	Sample Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (μS/cm)	DO (mg/L)	ORP (mV)	Volume (gallons)
MW-1	3/19/2014	16.62	7.14	17.12	26391	1.70	-396.0	0.50
	3/19/2014	16.91	6.79	17.92	27570	0.72	-403.3	1.00
	3/19/2014	17.21	6.73	18.32	28191	0.25	-402.8	1.50
	6/17/2014	18.54	9.40	16.95	26107	4.80	-363.3	0.75
	6/17/2014	18.35	8.88	16.99	26151	3.35	-384.7	1.00
	6/17/2014	17.64	8.30	17.05	26734	1.91	-382.7	1.50
	9/17/2014	19.10	7.29	19.00	29900	10.13	-355.0	1.25
	9/17/2014	18.40	7.29	19.00	30400	9.21	-367.0	1.50
	9/17/2014	18.10	7.27	19.00	30400	8.13	-387.0	1.75
MW-2	3/19/2014	15.67	7.93	21.11	32476	1.30	-314.9	1.25
	3/19/2014	15.72	7.95	21.06	32398	0.74	-321.2	1.75
	3/19/2014	15.77	7.95	20.98	32274	0.56	-314.4	2.25
	6/17/2014	16.08	8.63	18.79	28905	3.86	-316.8	1.25
	6/17/2014	15.95	8.59	18.74	28830	3.37	-315.7	1.75
	6/17/2014	15.86	8.52	18.64	28682	2.67	-320.5	2.25
	9/17/2014	16.60	7.83	20.00	31900	10.81	-294.0	2.00
	9/17/2014	16.40	7.76	19.00	31600	9.01	-299.0	2.50
	9/17/2014	16.40	7.75	19.00	31100	8.67	-299.0	2.75
MW-3	3/19/2014	14.94	8.06	17.15	26481	4.66	-148.8	3.75
	3/19/2014	15.28	8.06	19.26	29656	4.14	-142.8	4.25
	3/19/2014	15.17	8.14	19.48	29984	4.40	-136.7	4.75
	6/17/2014	15.91	8.51	17.79	27370	10.50	-110.4	3.75
	6/17/2014	15.76	8.51	17.85	27458	4.69	-110.8	4.25
	6/17/2014	15.69	8.50	17.96	27627	4.84	-110.5	4.75
	9/17/2014	16.20	7.77	19.00	30800	9.53	-87.0	3.50
	9/17/2014	16.10	7.61	19.00	30900	8.94	-83.0	4.00
	9/17/2014	16.20	7.61	19.00	30800	8.70	-78.0	4.25
MW-4	3/19/2014	15.46	7.27	21.77	33562	2.92	-112.2	5.00
	3/19/2014	15.71	7.67	22.30	34305	2.90	-119.8	5.50
	3/19/2014	15.69	7.66	22.37	34412	2.94	-117.2	6.00
	6/17/2014	16.43	8.69	19.94	30633	2.17	-207.6	4.50
	6/17/2014	16.36	8.64	20.00	30762	2.51	-192.6	5.00
	6/17/2014	16.09	8.56	19.99	30750	2.21	-192.7	5.25
	6/17/2014	16.43	8.65	19.98	30748	2.05	-190.9	5.30
	9/17/2014	16.80	7.94	21.00	33700	9.56	-265.0	3.25
	9/17/2014	16.40	7.88	21.00	34500	8.50	-269.0	3.50
	9/17/2014	16.30	7.89	21.00	34300	7.79	-270.0	4.00

MW-5	3/19/2014	15.67	7.28	10.20	15700	2.58	-148.4	1.50
	3/19/2014	15.61	7.26	10.14	15597	2.56	-172.1	2.00
	3/19/2014	14.92	7.16	10.16	15626	2.57	-190.3	2.50
	6/17/2014	16.81	7.99	9.506	14625	12.62	-138.9	1.50
	6/17/2014	16.92	7.91	9.412	14479	5.24	-145.3	2.00
	6/17/2014	17.04	7.93	9.382	14434	5.17	-156.3	2.50
	9/17/2014	16.70	7.67	11.00	17500	11.72	-4.0	2.50
MW-6	9/17/2014	16.50	7.49	11.00	18000	9.72	-48.0	2.75
	9/17/2014	16.50	7.44	11.00	18000	8.75	-66.0	3.00
	3/19/2014	15.91	8.29	22.11	34016	0.70	-378.4	7.50
	3/19/2014	15.73	8.27	22.11	34029	0.71	-373.2	8.00
	3/19/2014	15.58	8.29	22.09	33989	0.81	-371.0	8.50
	6/17/2014	16.33	9.02	19.65	30190	2.22	-366.9	7.50
	6/17/2014	15.97	8.75	19.54	30060	1.55	-367.2	8.00
	6/17/2014	15.93	8.67	19.53	30046	1.35	-359.4	8.50
MW-7								
	9/17/2014	16.80	8.13	21.00	33900	9.79	-366.0	3.25
	9/17/2014	16.80	8.03	21.00	33900	8.15	-364.0	3.75
	9/17/2014	16.80	7.98	21.00	34000	7.67	-362.0	4.25
	9/17/2014	16.60	7.98	21.00	33900	7.41	-362.0	4.50
	3/19/2014	14.92	7.97	18.20	27995	2.50	-140.0	5.00
	3/19/2014	15.05	7.96	17.42	26703	2.63	-140.5	5.50
	3/19/2014	15.18	7.99	18.72	28818	2.64	-136.5	6.00
MW-8	6/17/2014	16.32	8.11	13.04	20134	9.32	-149.9	4.00
	6/17/2014	15.94	8.02	14.77	22798	5.33	-161.7	4.25
	6/17/2014	15.71	7.98	14.92	22961	4.51	-159.5	4.50
	6/17/2014	15.72	7.96	14.96	23009	4.36	-158.6	4.75
	9/17/2014	16.30	7.67	11.00	18100	9.73	60.0	3.25
	9/17/2014	16.10	7.63	13.00	21100	9.41	12.0	3.75
	9/17/2014	16.00	7.60	14.00	22900	8.89	-33.0	4.25
MW-8	3/19/2014	15.02	8.02	15.36	23860	3.33	-127.6	5.75
	3/19/2014	15.06	7.75	15.36	24041	3.12	-128.8	6.25
	3/19/2014	15.06	7.65	15.96	24553	2.87	-128.1	6.75
	6/17/2014	15.22	8.18	14.27	21962	2.89	-163.9	5.75
	6/17/2014	15.12	8.15	14.42	22184	2.36	-171.9	6.25
	6/17/2014	15.09	8.13	14.53	22358	2.11	-175.5	6.75
	9/17/2014	15.60	7.82	15.00	24600	9.23	31.0	5.75
MW-8	9/17/2014	15.60	7.81	15.00	24900	8.67	36.0	6.25
	9/17/2014	15.60	7.81	16.00	25200	8.08	45.0	6.75

Notes:

TDS = total dissolved solids

DO = dissolved oxygen

ORP = oxidation-reduction potential

TABLE 4

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

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)
	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
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	0.0456	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
	GW-075035-032013-CM-MW-1	3/20/2013	(orig)	4.230	0.411	1.050	8.380	< 0.10	< 0.10	0.0438	285	< 0.20	13600	1.210	0.345	0.670	32200
	075035-061313-JK-MW1	6/13/2013	(orig)	4.410	0.418	1.640	7.220	< 0.10	< 0.10	0.0508	289	< 0.20	12400	1.190	0.067	0.507	22000
	GW-075035-091213-CM-MW-1	9/12/2013	(orig)	3.470	0.428	3.020	7.900	< 0.10	< 0.10	0.0365	296	< 0.20	12100	1.100	0.46	0.95	31300
	GW-075035-121713-CM-MW-1	12/17/2013	(orig)	3.180	0.297	5.230	6.120	< 0.10	0.156	0.0258	459	< 4.0	15100	1.160	0.0910	0.590	24300
	GW-075035-031914-CK-MW-1	3/19/2014	(orig)	3.740	0.563	7.380	8.920	< 0.10	< 0.10	0.04	551	< 4.0	16600	1.130	< 0.250	0.832	29100
	GW-075035-061714-CK-MW-1	6/17/2014	(orig)	3.270	0.332	6.320	5.750	< 0.10	0.112	0.0332	640	< 4.0	18900	1.190	0.0766	0.227	30100
	GW-075035-061714-CK-DUP	6/17/2014	(Duplicate)	3.670	0.373	7.090	6.340	< 0.10	0.129	--	--	--	--	--	--	--	--
	GW-075035-091714-CB-MW-1	9/17/2014	(orig)	3.650	0.463	7.980	7.300	< 0.10	< 0.10	0.0382	553	< 0.20	18200	1.340	< 0.500	0.196	29100
	GW-075035-091714-CB-DUP	9/17/2014	(Duplicate)	2.980	0.197	7.000	5.900	< 0.001	< 0.001	--	--	--	--	--	--	--	--
MW-2	1	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	0.0811	< 0.005	< 0.005	< 0.0005	423	< 0.2	22300	1.040	1.200	1.980	33200
	GW-075035-032013-CM-MW-2	3/20/2013	(orig)	0.177	0.334	< 0.005	0.084	< 0.005	< 0.005	0.00089	408	< 0.2	19100	0.981	1.180	2.210	43200
	075035-061313-JK-MW2	6/13/2013	(orig)	0.128	0.232	< 0.005	0.0508	< 0.005	< 0.005	0.0025	416	< 0.2	19500	0.940	1.660	3.190	18500
	075035-061313-JK-DUP	6/13/2013	(Duplicate)	0.141	0.273	< 0.005	0.0631	< 0.005	< 0.005	0.0633	--	--	--	--	--	--	--
	GW-075035-091113-CM-MW-2	9/11/2013	(orig)	0.107	0.318	< 0.005	0.0619	< 0.005	< 0.005	0.00097	450	< 0.2	18900	0.85	1.6	2.0	88400
	GW-075035-121713-CM-MW-2	12/17/2013	(orig)	0.102	0.247	< 0.005	0.0632	< 0.005	0.0103	0.0336	453	< 4.0	22400	0.791	1.450	2.430	32800
	GW-075035-031914-CK-MW-2	3/19/2014	(orig)	0.0425	0.183	< 0.005	0.0325	< 0.005	< 0.005	0.0103	460	< 4.0	23000	0.854	1.850	3.330	36000
	GW-075035-061714-CK-MW-2	6/17/2014	(orig)	0.0582	0.238	< 0.005	0.0744	< 0.005	0.0081	0.0153	470	< 4.0	22100	0.772	3.090	3.680	33100
GW-075035-091714-CB-MW-2	9/17/2014	(orig)	0.0725	0.293	0.0087	0.0973	< 0.005	< 0.005	0.0096	418	< 0.20	21800	< 1.0	3.580	4.260	31400	
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	< 1.0	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
	GW-075035-032013-CM-MW-3	3/20/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.0005	373	< 0.2	20400	0.936	0.217	4.160	45600
	075035-061313-JK-MW3	6/13/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.0005	377	< 0.2	18900	0.991	< 0.100	1.250	30900
	GW-075035-091113-CM-MW-3	9/11/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.0005	403	< 0.2	18700	0.87	< 0.25	3.9	80500
	GW-075035-121713-CM-MW-3	12/17/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.0005	476	< 4.0	20300	0.899	0.272	0.0836	31600
	GW-075035-031914-CK-MW-3	3/19/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.0005	458	< 4.0	21400	1.00	< 0.25	0.104	32800
	GW-075035-061714-CK-MW-3	6/17/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.0005	441	< 10.0	21000	0.974	0.0556	0.0475	34100
	GW-075035-091714-CB-MW-3	9/17/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.0005	380	< 0.20	20800	< 1.0	< 0.500	0.278	32100
	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
MW-4	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	< 1.0	30200	0.554	1.04	8.28	38400
	GW-075035-060712-CB-MW-4	6/7/2012	(orig)														

TABLE 4
GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
MARTIN 34 No. 2
SAN JUAN COUNTY, NEW MEXICO

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)
				0.01	0.75	0.75	0.62	0.01	0.1	0.03	250	1.6	600	0.75	1	0.2	1000
NMWQCC Groundwater Quality Standards																	
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	0.0289	<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
	GW-075035-032013-CMMW-5	3/20/2013	(orig)	0.493	0.0266	<0.005	<0.015	<0.005	<0.005	<0.0005	206	<0.2	6960	2.870	6.060	2.230	11000
	075035-061313-JK-MW5	6/13/2013	(orig)	0.278	0.0146	<0.005	<0.015	<0.005	<0.005	<0.0005	203	<0.2	7110	1.460	2.200	0.806	15100
	GW-075035-091113-CM-MW-5	9/11/2013	(orig)	0.175	0.0103	<0.005	<0.015	<0.005	<0.005	0.00061	228	<0.2	5400	1.4	0.96	0.69	15100
	GW-075035-121713-CM-MW-5	12/17/2013	(orig)	0.114	0.0069	<0.005	<0.015	<0.005	<0.005	<0.0005	228	<4.0	7120	1.490	1.610	0.647	12000
	GW-075035-031914-CK-MW-5	3/19/2014	(orig)	0.220	0.0102	<0.005	<0.015	<0.005	<0.005	<0.0005	234	<2.0	8490	1.640	1.630	1.060	13500
	GW-075035-061714-CK-MW-5	6/17/2014	(orig)	0.192	0.0147	<0.001	<0.003	<0.001	<0.001	<0.0005	236	<4.0	8600	1.460	0.714	0.695	12100
	GW-075035-091714-CB-MW-5	9/17/2014	(orig)	0.203	0.0107	<0.005	<0.015	<0.005	<0.005	<0.0005	219	<0.2	9590	1.330	0.629	0.752	16300
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	--	--	--	--	--	--	--	--	--	--
	GW-075035-032013-CM-MW-6	3/20/2013	(orig)	0.0221	0.196	<0.01	3.45	<0.01	<0.01	0.0336	380	<0.2	23200	0.642	<0.05	2.460	70000
	GW-075035-032013-CM-DUP	3/20/2013	(Duplicate)	0.0198	0.200	<0.002	3.52	<0.002	<0.002	0.057	--	--	--	--	--	--	--
	075035-061313-JK-MW6	6/13/2013	(orig)	0.0154	0.129	<0.01	2.03	<0.01	<0.01	0.019	396	<0.2	23000	0.666	<0.1	2.030	36000
	GW-075035-091113-CM-MW-6	9/11/2013	(orig)	0.0120	0.125	<0.01	1.79	<0.01	<0.01	0.0250	492	<0.2	19600	0.63	<0.25	2.0	85400
	GW-075035-091113-CM-DUP	9/11/2013	(Duplicate)	0.0114	0.133	<0.001	1.89	--	--	--	--	--	--	--	--	--	--
	GW-075035-121713-CM-MW-6	12/17/2013	(orig)	0.0141	0.127	<0.01	1.81	<0.01	0.0222	0.0302	755	4.5	23000	0.653	0.121	1.860	34600
	GW-075035-121713-CM-DUP	12/17/2013	(Duplicate)	0.0112	0.133	<0.01	1.780	<0.01	0.0124	--	--	--	--	--	--	--	--
	GW-075035-031914-CK-MW-6	3/19/2014	(orig)	0.0078	0.123	<0.005	1.270	<0.005	<0.005	0.0172	600	<4.0	24300	0.806	<0.250	2.030	37100
	GW-075035-031914-CK-DUP	3/19/2014	(Duplicate)	0.0079	0.122	<0.005	1.390	<0.005	<0.005	--	--	--	--	--	--	--	--
	GW-075035-061714-CK-MW-6	6/17/2014	(orig)	0.0219	0.115	<0.01	1.400	<0.01	0.0175	0.0213	668	<4.0	24200	0.724	<0.250	1.940	36100
	GW-075035-091714-CB-MW-6	9/17/2014	(orig)	0.0076	0.112	<0.005	0.996	<0.005	0.0059	0.0198	613	<0.20	22100	<1.0	<0.500	1.770	34600
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
	GW-075035-032013-CM-MW-7	3/20/2013	(orig)	0.0077	0.450	<0.005	<0.015	<0.005	<0.005	<0.0005	283	<0.20	21500	0.864	2.560	3.300	56000
	075035-061313-JK-MW7	6/13/2013	(orig)	0.0051	0.188	<0.005	<0.015	<0.005	<0.005	<0.0005	258	<0.20	20400	0.752	0.578	2.460	35900
	GW-075035-091113-CM-MW-7	9/11/2013	(orig)	0.0081	0.468	<0.005	<0.015	<0.005	<0.005	<0.0005	363	<0.20	19300	0.80	2.6	3.2	91600
	GW-075035-121713-CM-MW-7	12/17/2013	(orig)	0.0064	0.185	<0.001	<0.003	<0.001	<0.001	0.0079	279	<4.0	20500	0.767	3.130	2.640	28900
	GW-075035-031914-CK-MW-7	3/19/2014	(orig)	0.0183	0.475	<0.01	<0.03	<0.01	<0.01	0.017	265	2.2	19300	0.838	3.830	2.400	28800
	GW-075035-061714-CK-MW-7	6/17/2014	(orig)	0.0152	0.385	<0.005	<0.015	<0.005	0.0087	<0.0005	357	<10.0	22200	0.780	3.810	2.360	34700
	GW-075035-091714-CB-MW-7	9/17/2014	(orig)	0.0027	0.0358	<0.001	<0.001	<0.001	<0.001	<0.0005	135	<0.20	13900	<1.0	<0.50	1.920	20400
MW-8	GW-075035-091113-CM-MW-8	9/11/2013	(orig)	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.0005	309	<0.20	10800	0.87	<0.25	4.6	26700
	GW-075035-121713-CM-MW-8	12/17/2013	(orig)	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.0005	465	<4.0	14400	0.876	<0.05	3.440	21400
	GW-075035-031914-CK-MW-8	3/19/2014	(orig)	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.0005	655	<4.0	16100	1.090	<0.25	3.730	25200
	GW-075035-061714-CK-MW-8	6/17/2014	(orig)	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.0005	676	<4.0	16300	0.947	<0.25	3.170	25500
	GW-075035-091714-CB-MW-8	9/17/2014	(orig)	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.0005	612	<0.2	16500	<1.0	<0.50	3.200	24900

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

Appendix A

Groundwater Laboratory Analytical Reports

April 04, 2014

Jeff Walker
COP Conestoga-Rovers & Associa
6121 Indian School Rd. NE
Ste 200
Albuquerque, NM 87110

RE: Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60165424

Dear Jeff Walker:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2014. 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: Angela Bown, COP Conestoga-Rovers & Associa
Christine Matthews, CRA



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60165424001	GW-075035-031914-CK-MW-1	Water	03/19/14 13:15	03/21/14 08:30
60165424002	GW-075035-031914-CK-MW-2	Water	03/19/14 11:10	03/21/14 08:30
60165424003	GW-075035-031914-CK-MW-3	Water	03/19/14 12:20	03/21/14 08:30
60165424004	GW-075035-031914-CK-MW-4	Water	03/19/14 15:15	03/21/14 08:30
60165424005	GW-075035-031914-CK-MW-5	Water	03/19/14 14:30	03/21/14 08:30
60165424006	GW-075035-031914-CK-MW-6	Water	03/19/14 11:00	03/21/14 08:30
60165424007	GW-075035-031914-CK-MW-7	Water	03/19/14 12:35	03/21/14 08:30
60165424008	GW-075035-031914-CK-MW-8	Water	03/19/14 14:45	03/21/14 08:30
60165424009	GW-075035-031914-CK-DUP	Water	03/19/14 08:00	03/21/14 08:30
60165424010	TB-075035-031914-CK-1	Water	03/19/14 08:00	03/21/14 08:30

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60165424001	GW-075035-031914-CK-MW-1	EPA 6010	JGP	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	JTS	11
		SM 2540C	JMC1	1
		EPA 300.0	OL	3
60165424002	GW-075035-031914-CK-MW-2	EPA 6010	JGP	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	JTS	11
		SM 2540C	JMC1	1
		EPA 300.0	OL	3
60165424003	GW-075035-031914-CK-MW-3	EPA 6010	JGP	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	JTS	11
		SM 2540C	JMC1	1
		EPA 300.0	OL	3
60165424004	GW-075035-031914-CK-MW-4	EPA 6010	JGP	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	JTS	11
		SM 2540C	JMC1	1
		EPA 300.0	OL	3
60165424005	GW-075035-031914-CK-MW-5	EPA 6010	JGP	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	JTS	11
		SM 2540C	JMC1	1
		EPA 300.0	OL	3
60165424006	GW-075035-031914-CK-MW-6	EPA 6010	JGP	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	JTS	11
		SM 2540C	JMC1	1
		EPA 300.0	OL	3
60165424007	GW-075035-031914-CK-MW-7	EPA 6010	JGP	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	JTS	11
		SM 2540C	JMC1	1
		EPA 300.0	OL	3
60165424008	GW-075035-031914-CK-MW-8	EPA 6010	JGP	3
		EPA 8270C by SIM	NAW	3

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 5030B/8260	JTS	11
		SM 2540C	JMC1	1
		EPA 300.0	OL	3
60165424009	GW-075035-031914-CK-DUP	EPA 5030B/8260	JTS	11
60165424010	TB-075035-031914-CK-1	EPA 5030B/8260	JTS	11

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: April 04, 2014

General Information:

8 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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: MPRP/26638

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

- GW-075035-031914-CK-MW-1 (Lab ID: 60165424001)
 - Iron, Dissolved
- GW-075035-031914-CK-MW-3 (Lab ID: 60165424003)
 - Iron, Dissolved
- GW-075035-031914-CK-MW-6 (Lab ID: 60165424006)
 - Iron, Dissolved
- GW-075035-031914-CK-MW-8 (Lab ID: 60165424008)
 - Iron, Dissolved

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Method: EPA 8270C by SIM

Description: 8270 MSSV PAH by SIM

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: April 04, 2014

General Information:

8 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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: MSSV/13846

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Method: EPA 5030B/8260

Description: 8260 MSV

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: April 04, 2014

General Information:

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

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.

- GW-075035-031914-CK-MW-2 (Lab ID: 60165424002)

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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: MSV/60433

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

QC Batch: MSV/60494

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

QC Batch: MSV/60499

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: April 04, 2014

General Information:

8 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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: April 04, 2014

General Information:

8 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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: WETA/28817

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

- GW-075035-031914-CK-MW-1 (Lab ID: 60165424001)
 - Fluoride
- GW-075035-031914-CK-MW-2 (Lab ID: 60165424002)
 - Fluoride
- GW-075035-031914-CK-MW-3 (Lab ID: 60165424003)
 - Fluoride
- GW-075035-031914-CK-MW-4 (Lab ID: 60165424004)
 - Fluoride
- GW-075035-031914-CK-MW-5 (Lab ID: 60165424005)
 - Fluoride
- GW-075035-031914-CK-MW-6 (Lab ID: 60165424006)
 - Fluoride
- GW-075035-031914-CK-MW-7 (Lab ID: 60165424007)
 - Fluoride
- GW-075035-031914-CK-MW-8 (Lab ID: 60165424008)
 - Fluoride

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

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Sample: GW-075035-031914-CK-MW-1		Lab ID: 60165424001	Collected: 03/19/14 13:15	Received: 03/21/14 08:30	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	1130	ug/L	500	5	03/28/14 11:00	04/02/14 10:50	7440-42-8	D3
Iron, Dissolved	ND	ug/L	250	5	03/28/14 11:00	04/01/14 15:42	7439-89-6	
Manganese, Dissolved	832	ug/L	25.0	5	03/28/14 11:00	04/02/14 10:50	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	40.0	ug/L	2.5	5	03/25/14 00:00	04/03/14 17:24	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	64	%	36-120	1	03/25/14 00:00	03/31/14 17:37	321-60-8	
Terphenyl-d14 (S)	74	%	29-134	1	03/25/14 00:00	03/31/14 17:37	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	3740	ug/L	100	100		03/31/14 10:02	71-43-2	
Ethylbenzene	563	ug/L	100	100		03/31/14 10:02	100-41-4	
Methylene chloride	ND	ug/L	100	100		03/31/14 10:02	75-09-2	
Naphthalene	ND	ug/L	1000	100		03/31/14 10:02	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		03/31/14 10:02	79-34-5	
Toluene	7380	ug/L	100	100		03/31/14 10:02	108-88-3	
Xylene (Total)	8920	ug/L	300	100		03/31/14 10:02	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	100		03/31/14 10:02	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120	100		03/31/14 10:02	17060-07-0	
Toluene-d8 (S)	103	%	80-120	100		03/31/14 10:02	2037-26-5	
Preservation pH	1.0		0.10	100		03/31/14 10:02		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	29100	mg/L	5.0	1		03/26/14 08:52		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	551	mg/L	50.0	50		04/01/14 01:11	16887-00-6	D3
Fluoride	ND	mg/L	4.0	20		04/01/14 03:45	16984-48-8	
Sulfate	16600	mg/L	2000	2000		03/31/14 22:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Sample: GW-075035-031914-CK-MW-2		Lab ID: 60165424002	Collected: 03/19/14 11:10	Received: 03/21/14 08:30	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	854	ug/L	500	5	03/28/14 11:00	04/02/14 11:03	7440-42-8	
Iron, Dissolved	1850	ug/L	250	5	03/28/14 11:00	04/01/14 15:55	7439-89-6	
Manganese, Dissolved	3330	ug/L	25.0	5	03/28/14 11:00	04/02/14 11:03	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	10.3	ug/L	0.50	1	03/25/14 00:00	03/31/14 17:58	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	67 %		36-120	1	03/25/14 00:00	03/31/14 17:58	321-60-8	
Terphenyl-d14 (S)	75 %		29-134	1	03/25/14 00:00	03/31/14 17:58	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	42.5	ug/L	5.0	5		03/31/14 10:17	71-43-2	
Ethylbenzene	183	ug/L	5.0	5		03/31/14 10:17	100-41-4	
Methylene chloride	ND	ug/L	5.0	5		03/31/14 10:17	75-09-2	
Naphthalene	ND	ug/L	50.0	5		03/31/14 10:17	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		03/31/14 10:17	79-34-5	
Toluene	ND	ug/L	5.0	5		03/31/14 10:17	108-88-3	
Xylene (Total)	32.5	ug/L	15.0	5		03/31/14 10:17	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	5		03/31/14 10:17	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		80-120	5		03/31/14 10:17	17060-07-0	
Toluene-d8 (S)	105 %		80-120	5		03/31/14 10:17	2037-26-5	
Preservation pH	6.0		0.10	5		03/31/14 10:17		pH
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	36000	mg/L	5.0	1		03/26/14 08:52		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	460	mg/L	50.0	50		04/01/14 01:27	16887-00-6	
Fluoride	ND	mg/L	4.0	20		04/01/14 04:01	16984-48-8	D3
Sulfate	23000	mg/L	2000	2000		03/31/14 22:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Sample: GW-075035-031914-CK-MW-3		Lab ID: 60165424003	Collected: 03/19/14 12:20		Received: 03/21/14 08:30		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	500	5	03/28/14 11:00	04/02/14 11:06	7440-42-8	D3
Iron, Dissolved	ND	ug/L	250	5	03/28/14 11:00	04/01/14 15:59	7439-89-6	
Manganese, Dissolved	104	ug/L	25.0	5	03/28/14 11:00	04/02/14 11:06	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	ND	ug/L	0.50	1	03/25/14 00:00	03/31/14 18:19	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	82	%	36-120	1	03/25/14 00:00	03/31/14 18:19	321-60-8	
Terphenyl-d14 (S)	84	%	29-134	1	03/25/14 00:00	03/31/14 18:19	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		03/31/14 10:32	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/31/14 10:32	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		03/31/14 10:32	75-09-2	
Naphthalene	ND	ug/L	10.0	1		03/31/14 10:32	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/31/14 10:32	79-34-5	
Toluene	ND	ug/L	1.0	1		03/31/14 10:32	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/31/14 10:32	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	111	%	80-120	1		03/31/14 10:32	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		03/31/14 10:32	17060-07-0	
Toluene-d8 (S)	97	%	80-120	1		03/31/14 10:32	2037-26-5	
Preservation pH	1.0		0.10	1		03/31/14 10:32		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	32800	mg/L	5.0	1		03/26/14 08:52		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	458	mg/L	50.0	50		04/01/14 01:42	16887-00-6	D3
Fluoride	ND	mg/L	4.0	20		04/01/14 04:16	16984-48-8	
Sulfate	21400	mg/L	2000	2000		03/31/14 23:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Sample: GW-075035-031914-CK-MW-4		Lab ID: 60165424004	Collected: 03/19/14 15:15	Received: 03/21/14 08:30	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	500	5	03/28/14 11:00	04/02/14 11:10	7440-42-8	
Iron, Dissolved	291	ug/L	250	5	03/28/14 11:00	04/01/14 16:02	7439-89-6	
Manganese, Dissolved	2220	ug/L	25.0	5	03/28/14 11:00	04/02/14 11:10	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	1.1	ug/L	0.50	1	03/25/14 00:00	03/31/14 18:40	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	78	%	36-120	1	03/25/14 00:00	03/31/14 18:40	321-60-8	
Terphenyl-d14 (S)	72	%	29-134	1	03/25/14 00:00	03/31/14 18:40	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		03/31/14 10:47	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/31/14 10:47	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		03/31/14 10:47	75-09-2	
Naphthalene	ND	ug/L	10.0	1		03/31/14 10:47	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/31/14 10:47	79-34-5	
Toluene	ND	ug/L	1.0	1		03/31/14 10:47	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/31/14 10:47	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		03/31/14 10:47	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120	1		03/31/14 10:47	17060-07-0	
Toluene-d8 (S)	101	%	80-120	1		03/31/14 10:47	2037-26-5	
Preservation pH	1.0		0.10	1		03/31/14 10:47		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	37900	mg/L	5.0	1		03/26/14 08:53		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	388	mg/L	50.0	50		04/01/14 01:57	16887-00-6	
Fluoride	4.6	mg/L	4.0	20		04/01/14 04:31	16984-48-8	D3
Sulfate	25300	mg/L	2000	2000		03/31/14 23:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Sample: GW-075035-031914-CK-MW-5 **Lab ID:** 60165424005 **Collected:** 03/19/14 14:30 **Received:** 03/21/14 08:30 **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	1640	ug/L	500	5	03/28/14 11:00	04/02/14 11:13	7440-42-8	
Iron, Dissolved	1630	ug/L	250	5	03/28/14 11:00	04/01/14 16:05	7439-89-6	
Manganese, Dissolved	1060	ug/L	25.0	5	03/28/14 11:00	04/02/14 11:13	7439-96-5	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C								
Naphthalene	ND	ug/L	0.50	1	03/25/14 00:00	03/31/14 19:01	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	78	%	36-120	1	03/25/14 00:00	03/31/14 19:01	321-60-8	
Terphenyl-d14 (S)	79	%	29-134	1	03/25/14 00:00	03/31/14 19:01	1718-51-0	
8260 MSV								
Analytical Method: EPA 5030B/8260								
Benzene	220	ug/L	5.0	5		04/01/14 15:47	71-43-2	
Ethylbenzene	10.2	ug/L	5.0	5		04/01/14 15:47	100-41-4	
Methylene chloride	ND	ug/L	5.0	5		04/01/14 15:47	75-09-2	
Naphthalene	ND	ug/L	50.0	5		04/01/14 15:47	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		04/01/14 15:47	79-34-5	
Toluene	ND	ug/L	5.0	5		04/01/14 15:47	108-88-3	
Xylene (Total)	ND	ug/L	15.0	5		04/01/14 15:47	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	5		04/01/14 15:47	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	80-120	5		04/01/14 15:47	17060-07-0	
Toluene-d8 (S)	97	%	80-120	5		04/01/14 15:47	2037-26-5	
Preservation pH	1.0		0.10	5		04/01/14 15:47		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Total Dissolved Solids	13500	mg/L	5.0	1		03/26/14 08:53		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Chloride	234	mg/L	20.0	20		04/01/14 02:13	16887-00-6	
Fluoride	ND	mg/L	2.0	10		04/01/14 04:47	16984-48-8	D3
Sulfate	8490	mg/L	1000	1000		03/31/14 23:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Sample: GW-075035-031914-CK-MW-6		Lab ID: 60165424006	Collected: 03/19/14 11:00	Received: 03/21/14 08:30	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	806	ug/L	500	5	03/28/14 11:00	04/02/14 11:27	7440-42-8	D3
Iron, Dissolved	ND	ug/L	250	5	03/28/14 11:00	04/01/14 16:15	7439-89-6	
Manganese, Dissolved	2030	ug/L	25.0	5	03/28/14 11:00	04/02/14 11:27	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	17.2	ug/L	0.50	1	03/25/14 00:00	03/31/14 19:22	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	75	%	36-120	1	03/25/14 00:00	03/31/14 19:22	321-60-8	
Terphenyl-d14 (S)	81	%	29-134	1	03/25/14 00:00	03/31/14 19:22	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	7.8	ug/L	5.0	5		03/31/14 11:18	71-43-2	
Ethylbenzene	123	ug/L	5.0	5		03/31/14 11:18	100-41-4	
Methylene chloride	ND	ug/L	5.0	5		03/31/14 11:18	75-09-2	
Naphthalene	ND	ug/L	50.0	5		03/31/14 11:18	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		03/31/14 11:18	79-34-5	
Toluene	ND	ug/L	5.0	5		03/31/14 11:18	108-88-3	
Xylene (Total)	1270	ug/L	15.0	5		03/31/14 11:18	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	5		03/31/14 11:18	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-120	5		03/31/14 11:18	17060-07-0	
Toluene-d8 (S)	99	%	80-120	5		03/31/14 11:18	2037-26-5	
Preservation pH	1.0		0.10	5		03/31/14 11:18		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	37100	mg/L	5.0	1		03/26/14 08:54		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	600	mg/L	50.0	50		04/01/14 02:28	16887-00-6	D3
Fluoride	ND	mg/L	4.0	20		04/01/14 05:02	16984-48-8	
Sulfate	24300	mg/L	2000	2000		03/31/14 23:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Sample: GW-075035-031914-CK-MW-7 **Lab ID:** 60165424007 **Collected:** 03/19/14 12:35 **Received:** 03/21/14 08:30 **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	838	ug/L	500	5	03/28/14 11:00	04/02/14 11:30	7440-42-8	
Iron, Dissolved	3830	ug/L	250	5	03/28/14 11:00	04/01/14 16:19	7439-89-6	
Manganese, Dissolved	2400	ug/L	25.0	5	03/28/14 11:00	04/02/14 11:30	7439-96-5	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C								
Naphthalene	17.0	ug/L	0.50	1	03/25/14 00:00	03/31/14 19:43	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	78	%	36-120	1	03/25/14 00:00	03/31/14 19:43	321-60-8	
Terphenyl-d14 (S)	90	%	29-134	1	03/25/14 00:00	03/31/14 19:43	1718-51-0	
8260 MSV								
Analytical Method: EPA 5030B/8260								
Benzene	18.3	ug/L	10.0	10		03/31/14 11:33	71-43-2	
Ethylbenzene	475	ug/L	10.0	10		03/31/14 11:33	100-41-4	
Methylene chloride	ND	ug/L	10.0	10		03/31/14 11:33	75-09-2	
Naphthalene	ND	ug/L	100	10		03/31/14 11:33	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		03/31/14 11:33	79-34-5	
Toluene	ND	ug/L	10.0	10		03/31/14 11:33	108-88-3	
Xylene (Total)	ND	ug/L	30.0	10		03/31/14 11:33	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	10		03/31/14 11:33	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120	10		03/31/14 11:33	17060-07-0	
Toluene-d8 (S)	107	%	80-120	10		03/31/14 11:33	2037-26-5	
Preservation pH	1.0		0.10	10		03/31/14 11:33		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Total Dissolved Solids	28800	mg/L	5.0	1		03/26/14 08:54		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Chloride	265	mg/L	20.0	20		04/01/14 02:44	16887-00-6	
Fluoride	2.2	mg/L	2.0	10		04/01/14 05:18	16984-48-8	D3
Sulfate	19300	mg/L	1000	1000		04/01/14 00:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Sample: GW-075035-031914-CK-MW-8		Lab ID: 60165424008	Collected: 03/19/14 14:45	Received: 03/21/14 08:30	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	1090	ug/L	500	5	03/28/14 11:00	04/02/14 11:33	7440-42-8	D3
Iron, Dissolved	ND	ug/L	250	5	03/28/14 11:00	04/01/14 16:22	7439-89-6	
Manganese, Dissolved	3730	ug/L	25.0	5	03/28/14 11:00	04/02/14 11:33	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	ND	ug/L	0.50	1	03/25/14 00:00	03/31/14 20:05	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	80	%	36-120	1	03/25/14 00:00	03/31/14 20:05	321-60-8	
Terphenyl-d14 (S)	93	%	29-134	1	03/25/14 00:00	03/31/14 20:05	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		03/31/14 11:49	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/31/14 11:49	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		03/31/14 11:49	75-09-2	
Naphthalene	ND	ug/L	10.0	1		03/31/14 11:49	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/31/14 11:49	79-34-5	
Toluene	ND	ug/L	1.0	1		03/31/14 11:49	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/31/14 11:49	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		03/31/14 11:49	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		03/31/14 11:49	17060-07-0	
Toluene-d8 (S)	107	%	80-120	1		03/31/14 11:49	2037-26-5	
Preservation pH	1.0		0.10	1		03/31/14 11:49		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	25200	mg/L	5.0	1		03/26/14 08:54		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	655	mg/L	50.0	50		04/01/14 02:59	16887-00-6	D3
Fluoride	ND	mg/L	4.0	20		04/01/14 05:33	16984-48-8	
Sulfate	16100	mg/L	2000	2000		04/01/14 00:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Sample: GW-075035-031914-CK-DUP **Lab ID:** 60165424009 **Collected:** 03/19/14 08:00 **Received:** 03/21/14 08:30 **Matrix:** Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	7.9	ug/L	5.0	5		04/01/14 20:23	71-43-2	
Ethylbenzene	122	ug/L	5.0	5		04/01/14 20:23	100-41-4	
Methylene chloride	ND	ug/L	5.0	5		04/01/14 20:23	75-09-2	
Naphthalene	ND	ug/L	50.0	5		04/01/14 20:23	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		04/01/14 20:23	79-34-5	
Toluene	ND	ug/L	5.0	5		04/01/14 20:23	108-88-3	
Xylene (Total)	1390	ug/L	15.0	5		04/01/14 20:23	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	5		04/01/14 20:23	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	5		04/01/14 20:23	17060-07-0	
Toluene-d8 (S)	97	%	80-120	5		04/01/14 20:23	2037-26-5	
Preservation pH	1.0		0.10	5		04/01/14 20:23		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Sample: TB-075035-031914-CK-1		Lab ID: 60165424010		Collected: 03/19/14 08:00		Received: 03/21/14 08:30		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		03/31/14 09:46	71-43-2		
Ethylbenzene	ND ug/L		1.0	1		03/31/14 09:46	100-41-4		
Methylene chloride	ND ug/L		1.0	1		03/31/14 09:46	75-09-2		
Naphthalene	ND ug/L		10.0	1		03/31/14 09:46	91-20-3		
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/31/14 09:46	79-34-5		
Toluene	ND ug/L		1.0	1		03/31/14 09:46	108-88-3		
Xylene (Total)	ND ug/L		3.0	1		03/31/14 09:46	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	102 %		80-120	1		03/31/14 09:46	460-00-4		
1,2-Dichloroethane-d4 (S)	95 %		80-120	1		03/31/14 09:46	17060-07-0		
Toluene-d8 (S)	110 %		80-120	1		03/31/14 09:46	2037-26-5		
Preservation pH	1.0		0.10	1		03/31/14 09:46			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

QC Batch: MPRP/26638 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60165424001, 60165424002, 60165424003, 60165424004, 60165424005, 60165424006, 60165424007, 60165424008

METHOD BLANK: 1351484 Matrix: Water
Associated Lab Samples: 60165424001, 60165424002, 60165424003, 60165424004, 60165424005, 60165424006, 60165424007, 60165424008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	04/02/14 10:43	
Iron, Dissolved	ug/L	ND	50.0	04/01/14 15:36	
Manganese, Dissolved	ug/L	ND	5.0	04/02/14 10:43	

LABORATORY CONTROL SAMPLE: 1351485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	1030	103	80-120	
Iron, Dissolved	ug/L	10000	10800	108	80-120	
Manganese, Dissolved	ug/L	1000	1070	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1351486 1351487

Parameter	Units	60165424001 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	1130	1000	1000	2180	2090	105	96	75-125	4	20	
Iron, Dissolved	ug/L	ND	10000	10000	9890	9740	98	96	75-125	2	20	
Manganese, Dissolved	ug/L	832	1000	1000	1860	1760	102	93	75-125	5	20	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

QC Batch:	MSV/60433	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60165424001, 60165424002, 60165424003, 60165424004, 60165424006, 60165424007, 60165424008, 60165424010		

METHOD BLANK:	1352732	Matrix:	Water
Associated Lab Samples:	60165424001, 60165424002, 60165424003, 60165424004, 60165424006, 60165424007, 60165424008, 60165424010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/31/14 09:31	
Benzene	ug/L	ND	1.0	03/31/14 09:31	
Ethylbenzene	ug/L	ND	1.0	03/31/14 09:31	
Methylene chloride	ug/L	ND	1.0	03/31/14 09:31	
Naphthalene	ug/L	ND	10.0	03/31/14 09:31	
Toluene	ug/L	ND	1.0	03/31/14 09:31	
Xylene (Total)	ug/L	ND	3.0	03/31/14 09:31	
1,2-Dichloroethane-d4 (S)	%	94	80-120	03/31/14 09:31	
4-Bromofluorobenzene (S)	%	98	80-120	03/31/14 09:31	
Toluene-d8 (S)	%	101	80-120	03/31/14 09:31	

LABORATORY CONTROL SAMPLE: 1352733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	22.2	111	73-124	
Benzene	ug/L	20	18.5	92	80-120	
Ethylbenzene	ug/L	20	21.1	105	80-121	
Methylene chloride	ug/L	20	22.1	110	73-126	
Naphthalene	ug/L	20	22.4	112	73-130	
Toluene	ug/L	20	22.8	114	80-122	
Xylene (Total)	ug/L	60	65.6	109	80-121	
1,2-Dichloroethane-d4 (S)	%			92	80-120	
4-Bromofluorobenzene (S)	%			92	80-120	
Toluene-d8 (S)	%			110	80-120	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

QC Batch:	MSV/60494	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60165424005		

METHOD BLANK: 1353650 Matrix: Water

Associated Lab Samples: 60165424005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/01/14 13:37	
Benzene	ug/L	ND	1.0	04/01/14 13:37	
Ethylbenzene	ug/L	ND	1.0	04/01/14 13:37	
Methylene chloride	ug/L	ND	1.0	04/01/14 13:37	
Naphthalene	ug/L	ND	10.0	04/01/14 13:37	
Toluene	ug/L	ND	1.0	04/01/14 13:37	
Xylene (Total)	ug/L	ND	3.0	04/01/14 13:37	
1,2-Dichloroethane-d4 (S)	%	97	80-120	04/01/14 13:37	
4-Bromofluorobenzene (S)	%	99	80-120	04/01/14 13:37	
Toluene-d8 (S)	%	96	80-120	04/01/14 13:37	

LABORATORY CONTROL SAMPLE: 1353651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	101	73-124	
Benzene	ug/L	20	19.4	97	80-120	
Ethylbenzene	ug/L	20	19.9	100	80-121	
Methylene chloride	ug/L	20	21.0	105	73-126	
Naphthalene	ug/L	20	21.4	107	73-130	
Toluene	ug/L	20	19.0	95	80-122	
Xylene (Total)	ug/L	60	60.2	100	80-121	
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			96	80-120	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

QC Batch: MSV/60499

Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260

Analysis Description: 8260 MSV Water 10 mL Purge

Associated Lab Samples: 60165424009

METHOD BLANK: 1353718

Matrix: Water

Associated Lab Samples: 60165424009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/01/14 20:07	
Benzene	ug/L	ND	1.0	04/01/14 20:07	
Ethylbenzene	ug/L	ND	1.0	04/01/14 20:07	
Methylene chloride	ug/L	ND	1.0	04/01/14 20:07	
Naphthalene	ug/L	ND	10.0	04/01/14 20:07	
Toluene	ug/L	ND	1.0	04/01/14 20:07	
Xylene (Total)	ug/L	ND	3.0	04/01/14 20:07	
1,2-Dichloroethane-d4 (S)	%	96	80-120	04/01/14 20:07	
Toluene-d8 (S)	%	96	80-120	04/01/14 20:07	

LABORATORY CONTROL SAMPLE: 1353719

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	73-124	
Benzene	ug/L	20	19.8	99	80-120	
Ethylbenzene	ug/L	20	20.5	103	80-121	
Methylene chloride	ug/L	20	19.5	98	73-126	
Naphthalene	ug/L	20	22.8	114	73-130	
Toluene	ug/L	20	19.9	99	80-122	
Xylene (Total)	ug/L	60	62.0	103	80-121	
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			97	80-120	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

QC Batch:	OEXT/43324	Analysis Method:	EPA 8270C by SIM
QC Batch Method:	EPA 3510C	Analysis Description:	8270 Water PAH by SIM MSSV
Associated Lab Samples:	60165424001, 60165424002, 60165424003, 60165424004, 60165424005, 60165424006, 60165424007, 60165424008		

METHOD BLANK:	1349566	Matrix:	Water
Associated Lab Samples:	60165424001, 60165424002, 60165424003, 60165424004, 60165424005, 60165424006, 60165424007, 60165424008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	0.50	03/31/14 16:55	
2-Fluorobiphenyl (S)	%	89	36-120	03/31/14 16:55	
Terphenyl-d14 (S)	%	98	29-134	03/31/14 16:55	

LABORATORY CONTROL SAMPLE: 1349567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	10	7.1	71	44-120	
2-Fluorobiphenyl (S)	%			78	36-120	
Terphenyl-d14 (S)	%			74	29-134	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

QC Batch: WET/46896 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60165424001, 60165424002, 60165424003, 60165424004, 60165424005, 60165424006, 60165424007, 60165424008

METHOD BLANK: 1349934 Matrix: Water
Associated Lab Samples: 60165424001, 60165424002, 60165424003, 60165424004, 60165424005, 60165424006, 60165424007, 60165424008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	03/26/14 08:50	

LABORATORY CONTROL SAMPLE: 1349935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	999	100	80-120	

SAMPLE DUPLICATE: 1349936

Parameter	Units	60165374003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	310	299	4	10	

SAMPLE DUPLICATE: 1349937

Parameter	Units	60165424005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	13500	14100	4	10	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

QC Batch:	WETA/28817	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	60165424001, 60165424002, 60165424003, 60165424004, 60165424005, 60165424006, 60165424007, 60165424008		

METHOD BLANK: 1352576 Matrix: Water
Associated Lab Samples: 60165424001, 60165424002, 60165424003, 60165424004, 60165424005, 60165424006, 60165424007, 60165424008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	03/31/14 18:15	
Fluoride	mg/L	ND	0.20	03/31/14 18:15	
Sulfate	mg/L	ND	1.0	03/31/14 18:15	

LABORATORY CONTROL SAMPLE: 1352577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.3	105	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	5	5.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1352578 1352579

Parameter	Units	60165133001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Chloride	mg/L	ND	500	500	558	524	93	86	80-120	6	15
Fluoride	mg/L	ND	250	250	255	233	102	93	80-120	9	15
Sulfate	mg/L	1170	500	500	1740	1740	113	113	80-120	0	15

MATRIX SPIKE SAMPLE: 1352580

Parameter	Units	60165133002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	112	500	543	86	80-120	
Fluoride	mg/L	ND	250	236	95	80-120	
Sulfate	mg/L	1320	500	1870	110	80-120	

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

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/43324

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

Batch: MSV/60433

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

Batch: MSV/60494

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

Batch: MSV/60499

[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.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60165424

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60165424001	GW-075035-031914-CK-MW-1	EPA 3010	MPRP/26638	EPA 6010	ICP/20257
60165424002	GW-075035-031914-CK-MW-2	EPA 3010	MPRP/26638	EPA 6010	ICP/20257
60165424003	GW-075035-031914-CK-MW-3	EPA 3010	MPRP/26638	EPA 6010	ICP/20257
60165424004	GW-075035-031914-CK-MW-4	EPA 3010	MPRP/26638	EPA 6010	ICP/20257
60165424005	GW-075035-031914-CK-MW-5	EPA 3010	MPRP/26638	EPA 6010	ICP/20257
60165424006	GW-075035-031914-CK-MW-6	EPA 3010	MPRP/26638	EPA 6010	ICP/20257
60165424007	GW-075035-031914-CK-MW-7	EPA 3010	MPRP/26638	EPA 6010	ICP/20257
60165424008	GW-075035-031914-CK-MW-8	EPA 3010	MPRP/26638	EPA 6010	ICP/20257
60165424001	GW-075035-031914-CK-MW-1	EPA 3510C	OEXT/43324	EPA 8270C by SIM	MSSV/13846
60165424002	GW-075035-031914-CK-MW-2	EPA 3510C	OEXT/43324	EPA 8270C by SIM	MSSV/13846
60165424003	GW-075035-031914-CK-MW-3	EPA 3510C	OEXT/43324	EPA 8270C by SIM	MSSV/13846
60165424004	GW-075035-031914-CK-MW-4	EPA 3510C	OEXT/43324	EPA 8270C by SIM	MSSV/13846
60165424005	GW-075035-031914-CK-MW-5	EPA 3510C	OEXT/43324	EPA 8270C by SIM	MSSV/13846
60165424006	GW-075035-031914-CK-MW-6	EPA 3510C	OEXT/43324	EPA 8270C by SIM	MSSV/13846
60165424007	GW-075035-031914-CK-MW-7	EPA 3510C	OEXT/43324	EPA 8270C by SIM	MSSV/13846
60165424008	GW-075035-031914-CK-MW-8	EPA 3510C	OEXT/43324	EPA 8270C by SIM	MSSV/13846
60165424001	GW-075035-031914-CK-MW-1	EPA 5030B/8260	MSV/60433		
60165424002	GW-075035-031914-CK-MW-2	EPA 5030B/8260	MSV/60433		
60165424003	GW-075035-031914-CK-MW-3	EPA 5030B/8260	MSV/60433		
60165424004	GW-075035-031914-CK-MW-4	EPA 5030B/8260	MSV/60433		
60165424005	GW-075035-031914-CK-MW-5	EPA 5030B/8260	MSV/60494		
60165424006	GW-075035-031914-CK-MW-6	EPA 5030B/8260	MSV/60433		
60165424007	GW-075035-031914-CK-MW-7	EPA 5030B/8260	MSV/60433		
60165424008	GW-075035-031914-CK-MW-8	EPA 5030B/8260	MSV/60433		
60165424009	GW-075035-031914-CK-DUP	EPA 5030B/8260	MSV/60499		
60165424010	TB-075035-031914-CK-1	EPA 5030B/8260	MSV/60433		
60165424001	GW-075035-031914-CK-MW-1	SM 2540C	WET/46896		
60165424002	GW-075035-031914-CK-MW-2	SM 2540C	WET/46896		
60165424003	GW-075035-031914-CK-MW-3	SM 2540C	WET/46896		
60165424004	GW-075035-031914-CK-MW-4	SM 2540C	WET/46896		
60165424005	GW-075035-031914-CK-MW-5	SM 2540C	WET/46896		
60165424006	GW-075035-031914-CK-MW-6	SM 2540C	WET/46896		
60165424007	GW-075035-031914-CK-MW-7	SM 2540C	WET/46896		
60165424008	GW-075035-031914-CK-MW-8	SM 2540C	WET/46896		
60165424001	GW-075035-031914-CK-MW-1	EPA 300.0	WETA/28817		
60165424002	GW-075035-031914-CK-MW-2	EPA 300.0	WETA/28817		
60165424003	GW-075035-031914-CK-MW-3	EPA 300.0	WETA/28817		
60165424004	GW-075035-031914-CK-MW-4	EPA 300.0	WETA/28817		
60165424005	GW-075035-031914-CK-MW-5	EPA 300.0	WETA/28817		
60165424006	GW-075035-031914-CK-MW-6	EPA 300.0	WETA/28817		
60165424007	GW-075035-031914-CK-MW-7	EPA 300.0	WETA/28817		
60165424008	GW-075035-031914-CK-MW-8	EPA 300.0	WETA/28817		

REPORT OF LABORATORY ANALYSIS

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



Sample Condition Upon Receipt
ESI Tech Spec Client

WO#: 60165424



60165424

Client Name: COP CRA-NM

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

Tracking #: 56891281475074761 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 ☒ 2pc

Thermometer Used: T-239 / T-194

Type of Ice: (Wet) Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.6, 2.4

Temperature should be above freezing to 6°C

Date and initials of person examining
contents: 3/21/14 BA

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses	Matrix: <u>WTT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: <u>(VOA)</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>022414-38FD</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

Client Notification/ Resolution:

Copy COC to Client? Y ☐ N ☒

Field Data Required? Y ☐ N ☐

Person Contacted: _____

Date/Time: 3/21/14

Comments/ Resolution: _____

Project Manager Review: AAF

Date: 3/21/14

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

Start: <u>1540</u>	Start:
End: <u>1550</u>	End:
Temp:	Temp:

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	COP CRA NM	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Jeff Walker, Angela Bown	Company Name:	
	Albuquerque, NM 87110			Address:	
Email To:	cmathews@croworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone: (505)884-0672	Fax: (505)884-4932	Project Name:	Martin 34 No. 2	Pace Project Manager:	Alice Flanagan
Requested Due Date/TAT: standard		Project Number:	075035	Pace Profile #:	5514,2
			REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____		
			Site Location STATE: NM		

[illegible]

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>EACE KAPACH</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>					
DATE Signed <i>3/20/14</i>					

July 01, 2014

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

RE: Project: 075035 MARTIN 34 NO 2
Pace Project No.: 60171936

Dear Christine Matthews:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2014. 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,



Emily Webb for
Alice Flanagan
alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Angela Bown, COP Conestoga-Rovers & Associa
Jeff Walker, COP Conestoga-Rovers & Associa



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171936001	GW-075035-061714-CK-MW-1	Water	06/17/14 13:00	06/19/14 08:30
60171936002	GW-075035-061714-CK-MW-2	Water	06/17/14 13:25	06/19/14 08:30
60171936003	GW-075035-061714-CK-MW-3	Water	06/17/14 14:10	06/19/14 08:30
60171936004	GW-075035-061714-CK-MW-4	Water	06/17/14 15:10	06/19/14 08:30
60171936005	GW-075035-061714-CK-MW-5	Water	06/17/14 17:10	06/19/14 08:30
60171936006	GW-075035-061714-CK-MW-6	Water	06/17/14 14:40	06/19/14 08:30
60171936007	GW-075035-061714-CK-MW-7	Water	06/17/14 16:30	06/19/14 08:30
60171936008	GW-075035-061714-CK-MW-8	Water	06/17/14 17:30	06/19/14 08:30
60171936009	GW-075035-061714-CK-DUP	Water	06/17/14 08:00	06/19/14 08:30
60171936010	TRIP BLANK	Water	06/17/14 18:00	06/19/14 08:30

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171936001	GW-075035-061714-CK-MW-1	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	10
		SM 2540C	ESM	1
		EPA 300.0	OL	3
60171936002	GW-075035-061714-CK-MW-2	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	10
		SM 2540C	ESM	1
		EPA 300.0	OL	3
60171936003	GW-075035-061714-CK-MW-3	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	10
		SM 2540C	ESM	1
		EPA 300.0	OL	3
60171936004	GW-075035-061714-CK-MW-4	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	10
		SM 2540C	ESM	1
		EPA 300.0	OL	3
60171936005	GW-075035-061714-CK-MW-5	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	10
		SM 2540C	ESM	1
		EPA 300.0	OL	3
60171936006	GW-075035-061714-CK-MW-6	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	10
		SM 2540C	ESM	1
		EPA 300.0	OL	3
60171936007	GW-075035-061714-CK-MW-7	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	10
		SM 2540C	ESM	1
		EPA 300.0	OL	3
60171936008	GW-075035-061714-CK-MW-8	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 5030B/8260	PRG	10
		SM 2540C	ESM	1
		EPA 300.0	OL	3
60171936009	GW-075035-061714-CK-DUP	EPA 5030B/8260	PRG	10
60171936010	TRIP BLANK	EPA 5030B/8260	PRG	10

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: July 01, 2014

General Information:

8 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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: MPRP/27815

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

- GW-075035-061714-CK-MW-6 (Lab ID: 60171936006)
 - Iron, Dissolved
- GW-075035-061714-CK-MW-8 (Lab ID: 60171936008)
 - Iron, Dissolved

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Method: EPA 8270C by SIM

Description: 8270 MSSV PAH by SIM

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: July 01, 2014

General Information:

8 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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: MSSV/14351

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Method: EPA 5030B/8260

Description: 8260 MSV

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: July 01, 2014

General Information:

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

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.

- GW-075035-061714-CK-DUP (Lab ID: 60171936009)
- GW-075035-061714-CK-MW-1 (Lab ID: 60171936001)

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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: MSV/62480

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

QC Batch: MSV/62481

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: July 01, 2014

General Information:

8 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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: July 01, 2014

General Information:

8 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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: WETA/30023

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60171936001

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

- MS (Lab ID: 1402018)
- Sulfate

Additional Comments:

Analyte Comments:

QC Batch: WETA/30023

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

- GW-075035-061714-CK-MW-1 (Lab ID: 60171936001)
 - Fluoride
- GW-075035-061714-CK-MW-2 (Lab ID: 60171936002)
 - Fluoride
- GW-075035-061714-CK-MW-3 (Lab ID: 60171936003)
 - Fluoride
- GW-075035-061714-CK-MW-4 (Lab ID: 60171936004)
 - Fluoride
- GW-075035-061714-CK-MW-5 (Lab ID: 60171936005)
 - Fluoride
- GW-075035-061714-CK-MW-7 (Lab ID: 60171936007)
 - Fluoride

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: July 01, 2014

Analyte Comments:

QC Batch: WETA/30023

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

- GW-075035-061714-CK-MW-8 (Lab ID: 60171936008)
- Fluoride

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

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Sample: GW-075035-061714-CK-MW-1 **Lab ID:** 60171936001 **Collected:** 06/17/14 13:00 **Received:** 06/19/14 08:30 **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	1190	ug/L	500	5	06/26/14 10:10	06/26/14 16:00	7440-42-8	
Iron, Dissolved	76.6	ug/L	50.0	1	06/26/14 10:10	06/26/14 15:05	7439-89-6	
Manganese, Dissolved	227	ug/L	50.0	10	06/26/14 10:10	06/27/14 13:45	7439-96-5	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C								
Naphthalene	33.2	ug/L	2.5	5	06/24/14 00:00	06/26/14 13:30	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	64	%	36-120	1	06/24/14 00:00	06/25/14 17:53	321-60-8	
Terphenyl-d14 (S)	72	%	29-134	1	06/24/14 00:00	06/25/14 17:53	1718-51-0	
8260 MSV								
Analytical Method: EPA 5030B/8260								
Benzene	3270	ug/L	100	100		06/23/14 12:09	71-43-2	
Ethylbenzene	332	ug/L	100	100		06/23/14 12:09	100-41-4	
Methylene chloride	122	ug/L	100	100		06/23/14 12:09	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		06/23/14 12:09	79-34-5	
Toluene	6320	ug/L	100	100		06/23/14 12:09	108-88-3	
Xylene (Total)	5750	ug/L	300	100		06/23/14 12:09	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	100		06/23/14 12:09	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120	100		06/23/14 12:09	17060-07-0	
Toluene-d8 (S)	97	%	80-120	100		06/23/14 12:09	2037-26-5	
Preservation pH	3.0		0.10	100		06/23/14 12:09		pH
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Total Dissolved Solids	30100	mg/L	5.0	1		06/24/14 09:29		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Chloride	640	mg/L	100	100		06/29/14 16:14	16887-00-6	
Fluoride	ND	mg/L	4.0	20		06/29/14 14:18	16984-48-8	D3
Sulfate	18900	mg/L	1000	1000		06/29/14 15:59	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Sample: GW-075035-061714-CK-MW-2		Lab ID: 60171936002	Collected: 06/17/14 13:25	Received: 06/19/14 08:30	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	772	ug/L	500	5	06/26/14 10:10	06/26/14 16:07	7440-42-8	
Iron, Dissolved	3090	ug/L	250	5	06/26/14 10:10	06/26/14 16:07	7439-89-6	
Manganese, Dissolved	3680	ug/L	50.0	10	06/26/14 10:10	06/27/14 13:48	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	15.3	ug/L	0.50	1	06/24/14 00:00	06/25/14 18:14	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	72	%	36-120	1	06/24/14 00:00	06/25/14 18:14	321-60-8	
Terphenyl-d14 (S)	76	%	29-134	1	06/24/14 00:00	06/25/14 18:14	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	58.2	ug/L	5.0	5		06/23/14 12:23	71-43-2	
Ethylbenzene	238	ug/L	5.0	5		06/23/14 12:23	100-41-4	
Methylene chloride	8.1	ug/L	5.0	5		06/23/14 12:23	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		06/23/14 12:23	79-34-5	
Toluene	ND	ug/L	5.0	5		06/23/14 12:23	108-88-3	
Xylene (Total)	74.4	ug/L	15.0	5		06/23/14 12:23	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	5		06/23/14 12:23	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	5		06/23/14 12:23	17060-07-0	
Toluene-d8 (S)	97	%	80-120	5		06/23/14 12:23	2037-26-5	
Preservation pH	1.0		0.10	5		06/23/14 12:23		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	33100	mg/L	5.0	1		06/24/14 09:29		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	470	mg/L	50.0	50		06/29/14 17:26	16887-00-6	
Fluoride	ND	mg/L	4.0	20		06/29/14 16:57	16984-48-8	D3
Sulfate	22100	mg/L	2000	2000		07/01/14 09:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Sample: GW-075035-061714-CK-MW-3		Lab ID: 60171936003	Collected: 06/17/14 14:10	Received: 06/19/14 08:30	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	974 ug/L		500	5	06/26/14 10:10	06/27/14 14:10	7440-42-8	
Iron, Dissolved	55.6 ug/L		50.0	1	06/26/14 10:10	06/26/14 15:19	7439-89-6	
Manganese, Dissolved	47.5 ug/L		25.0	5	06/26/14 10:10	06/27/14 14:10	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	ND ug/L		0.50	1	06/24/14 00:00	06/25/14 18:34	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	91 %		36-120	1	06/24/14 00:00	06/25/14 18:34	321-60-8	
Terphenyl-d14 (S)	85 %		29-134	1	06/24/14 00:00	06/25/14 18:34	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		06/23/14 12:38	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		06/23/14 12:38	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/23/14 12:38	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/23/14 12:38	79-34-5	
Toluene	ND ug/L		1.0	1		06/23/14 12:38	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		06/23/14 12:38	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		06/23/14 12:38	460-00-4	
1,2-Dichloroethane-d4 (S)	105 %		80-120	1		06/23/14 12:38	17060-07-0	
Toluene-d8 (S)	96 %		80-120	1		06/23/14 12:38	2037-26-5	
Preservation pH	1.0		0.10	1		06/23/14 12:38		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	34100 mg/L		5.0	1		06/24/14 09:30		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	441 mg/L		50.0	50		06/29/14 18:52	16887-00-6	
Fluoride	ND mg/L		10.0	50		06/29/14 18:52	16984-48-8	D3
Sulfate	21000 mg/L		2000	2000		07/01/14 10:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Sample: GW-075035-061714-CK-MW-4		Lab ID: 60171936004	Collected: 06/17/14 15:10	Received: 06/19/14 08:30	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	06/26/14 10:10	06/26/14 16:16	7440-42-8	
Iron, Dissolved	288	ug/L	250	5	06/26/14 10:10	06/26/14 16:16	7439-89-6	
Manganese, Dissolved	1780	ug/L	50.0	10	06/26/14 10:10	06/27/14 13:52	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	1.3	ug/L	0.50	1	06/24/14 00:00	06/25/14 18:54	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	90	%	36-120	1	06/24/14 00:00	06/25/14 18:54	321-60-8	
Terphenyl-d14 (S)	89	%	29-134	1	06/24/14 00:00	06/25/14 18:54	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		06/23/14 12:52	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/23/14 12:52	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		06/23/14 12:52	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/23/14 12:52	79-34-5	
Toluene	ND	ug/L	1.0	1		06/23/14 12:52	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/23/14 12:52	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	1		06/23/14 12:52	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120	1		06/23/14 12:52	17060-07-0	
Toluene-d8 (S)	95	%	80-120	1		06/23/14 12:52	2037-26-5	
Preservation pH	1.0		0.10	1		06/23/14 12:52		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	37600	mg/L	5.0	1		06/24/14 09:30		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	384	mg/L	50.0	50		06/29/14 19:21	16887-00-6	
Fluoride	ND	mg/L	10.0	50		06/29/14 19:21	16984-48-8	D3
Sulfate	24500	mg/L	2000	2000		07/01/14 10:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Sample: GW-075035-061714-CK-MW-5		Lab ID: 60171936005	Collected: 06/17/14 17:10	Received: 06/19/14 08:30	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	1460	ug/L	500	5	06/26/14 10:10	06/26/14 16:18	7440-42-8	
Iron, Dissolved	714	ug/L	250	5	06/26/14 10:10	06/26/14 16:18	7439-89-6	
Manganese, Dissolved	695	ug/L	50.0	10	06/26/14 10:10	06/27/14 13:55	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	ND	ug/L	0.50	1	06/24/14 00:00	06/25/14 19:15	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	77	%	36-120	1	06/24/14 00:00	06/25/14 19:15	321-60-8	
Terphenyl-d14 (S)	84	%	29-134	1	06/24/14 00:00	06/25/14 19:15	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	192	ug/L	1.0	1		06/23/14 13:06	71-43-2	
Ethylbenzene	14.7	ug/L	1.0	1		06/23/14 13:06	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		06/23/14 13:06	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/23/14 13:06	79-34-5	
Toluene	ND	ug/L	1.0	1		06/23/14 13:06	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/23/14 13:06	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		06/23/14 13:06	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		06/23/14 13:06	17060-07-0	
Toluene-d8 (S)	96	%	80-120	1		06/23/14 13:06	2037-26-5	
Preservation pH	1.0		0.10	1		06/23/14 13:06		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	12100	mg/L	5.0	1		06/24/14 09:31		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	236	mg/L	20.0	20		06/29/14 19:50	16887-00-6	
Fluoride	ND	mg/L	4.0	20		06/29/14 19:50	16984-48-8	D3
Sulfate	8600	mg/L	1000	1000		06/29/14 20:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Sample: GW-075035-061714-CK-MW-6		Lab ID: 60171936006	Collected: 06/17/14 14:40		Received: 06/19/14 08:30		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	724	ug/L	500	5	06/26/14 10:10	06/26/14 16:20	7440-42-8	D3
Iron, Dissolved	ND	ug/L	250	5	06/26/14 10:10	06/26/14 16:20	7439-89-6	
Manganese, Dissolved	1940	ug/L	50.0	10	06/26/14 10:10	06/27/14 14:02	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	21.3	ug/L	2.5	5	06/24/14 00:00	06/26/14 13:50	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	82	%	36-120	1	06/24/14 00:00	06/25/14 19:35	321-60-8	
Terphenyl-d14 (S)	84	%	29-134	1	06/24/14 00:00	06/25/14 19:35	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	21.9	ug/L	10.0	10		06/23/14 13:21	71-43-2	
Ethylbenzene	115	ug/L	10.0	10		06/23/14 13:21	100-41-4	
Methylene chloride	17.5	ug/L	10.0	10		06/23/14 13:21	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		06/23/14 13:21	79-34-5	
Toluene	ND	ug/L	10.0	10		06/23/14 13:21	108-88-3	
Xylene (Total)	1400	ug/L	30.0	10		06/23/14 13:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	10		06/23/14 13:21	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120	10		06/23/14 13:21	17060-07-0	
Toluene-d8 (S)	97	%	80-120	10		06/23/14 13:21	2037-26-5	
Preservation pH	1.0		0.10	10		06/23/14 13:21		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	36100	mg/L	5.0	1		06/24/14 09:31		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	668	mg/L	100	100		06/29/14 20:33	16887-00-6	
Fluoride	ND	mg/L	4.0	20		06/29/14 20:18	16984-48-8	
Sulfate	24200	mg/L	2000	2000		07/01/14 11:07	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Sample: GW-075035-061714-CK-MW-7		Lab ID: 60171936007	Collected: 06/17/14 16:30	Received: 06/19/14 08:30	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	780	ug/L	500	5	06/26/14 10:10	06/26/14 16:22	7440-42-8	
Iron, Dissolved	3810	ug/L	250	5	06/26/14 10:10	06/26/14 16:22	7439-89-6	
Manganese, Dissolved	2360	ug/L	50.0	10	06/26/14 10:10	06/27/14 14:04	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	ND	ug/L	0.50	1	06/24/14 00:00	06/25/14 19:56	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	83	%	36-120	1	06/24/14 00:00	06/25/14 19:56	321-60-8	
Terphenyl-d14 (S)	85	%	29-134	1	06/24/14 00:00	06/25/14 19:56	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	15.2	ug/L	5.0	5		06/23/14 13:35	71-43-2	
Ethylbenzene	385	ug/L	5.0	5		06/23/14 13:35	100-41-4	
Methylene chloride	8.7	ug/L	5.0	5		06/23/14 13:35	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		06/23/14 13:35	79-34-5	
Toluene	ND	ug/L	5.0	5		06/23/14 13:35	108-88-3	
Xylene (Total)	ND	ug/L	15.0	5		06/23/14 13:35	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	80-120	5		06/23/14 13:35	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120	5		06/23/14 13:35	17060-07-0	
Toluene-d8 (S)	99	%	80-120	5		06/23/14 13:35	2037-26-5	
Preservation pH	1.0		0.10	5		06/23/14 13:35		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	34700	mg/L	5.0	1		06/24/14 09:31		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	357	mg/L	50.0	50		06/29/14 21:45	16887-00-6	
Fluoride	ND	mg/L	10.0	50		06/29/14 21:45	16984-48-8	D3
Sulfate	22200	mg/L	2000	2000		07/01/14 11:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Sample: GW-075035-061714-CK-MW-8		Lab ID: 60171936008	Collected: 06/17/14 17:30	Received: 06/19/14 08:30	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	947	ug/L	500	5	06/26/14 10:10	06/26/14 16:25	7440-42-8	D3
Iron, Dissolved	ND	ug/L	250	5	06/26/14 10:10	06/26/14 16:25	7439-89-6	
Manganese, Dissolved	3170	ug/L	50.0	10	06/26/14 10:10	06/27/14 14:06	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	ND	ug/L	0.50	1	06/24/14 00:00	06/25/14 20:16	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	90	%	36-120	1	06/24/14 00:00	06/25/14 20:16	321-60-8	
Terphenyl-d14 (S)	83	%	29-134	1	06/24/14 00:00	06/25/14 20:16	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		06/23/14 13:49	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/23/14 13:49	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		06/23/14 13:49	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/23/14 13:49	79-34-5	
Toluene	ND	ug/L	1.0	1		06/23/14 13:49	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/23/14 13:49	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		06/23/14 13:49	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		06/23/14 13:49	17060-07-0	
Toluene-d8 (S)	96	%	80-120	1		06/23/14 13:49	2037-26-5	
Preservation pH	1.0		0.10	1		06/23/14 13:49		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	25500	mg/L	5.0	1		06/24/14 09:31		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	676	mg/L	100	100		06/29/14 22:14	16887-00-6	D3
Fluoride	ND	mg/L	4.0	20		06/29/14 21:59	16984-48-8	
Sulfate	16300	mg/L	1000	1000		06/29/14 22:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Sample: GW-075035-061714-CK-DUP **Lab ID:** 60171936009 Collected: 06/17/14 08:00 Received: 06/19/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	3670	ug/L	100	100		06/24/14 01:14	71-43-2	
Ethylbenzene	373	ug/L	100	100		06/24/14 01:14	100-41-4	
Methylene chloride	129	ug/L	100	100		06/24/14 01:14	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		06/24/14 01:14	79-34-5	
Toluene	7090	ug/L	100	100		06/24/14 01:14	108-88-3	
Xylene (Total)	6340	ug/L	300	100		06/24/14 01:14	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	100		06/24/14 01:14	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	100		06/24/14 01:14	17060-07-0	
Toluene-d8 (S)	99	%	80-120	100		06/24/14 01:14	2037-26-5	
Preservation pH	4.0		0.10	100		06/24/14 01:14		pH

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Sample: TRIP BLANK		Lab ID: 60171936010	Collected: 06/17/14 18:00	Received: 06/19/14 08:30	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		06/23/14 21:40	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		06/23/14 21:40	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/23/14 21:40	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/23/14 21:40	79-34-5	
Toluene	ND ug/L		1.0	1		06/23/14 21:40	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		06/23/14 21:40	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	1		06/23/14 21:40	460-00-4	
1,2-Dichloroethane-d4 (S)	95 %		80-120	1		06/23/14 21:40	17060-07-0	
Toluene-d8 (S)	98 %		80-120	1		06/23/14 21:40	2037-26-5	
Preservation pH	1.0		0.10	1		06/23/14 21:40		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

QC Batch:	MPRP/27815	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
Associated Lab Samples:	60171936001, 60171936002, 60171936003, 60171936004, 60171936005, 60171936006, 60171936007, 60171936008		

METHOD BLANK: 1401345 Matrix: Water
Associated Lab Samples: 60171936001, 60171936002, 60171936003, 60171936004, 60171936005, 60171936006, 60171936007, 60171936008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	06/26/14 14:48	
Iron, Dissolved	ug/L	ND	50.0	06/26/14 14:48	
Manganese, Dissolved	ug/L	ND	5.0	06/27/14 13:06	

LABORATORY CONTROL SAMPLE: 1401346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	1010	101	80-120	
Iron, Dissolved	ug/L	10000	10600	106	80-120	
Manganese, Dissolved	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1401347 1401348

Parameter	Units	60171936001 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	1190	1000	1000	2220	2260	103	107	75-125	2	20	
Iron, Dissolved	ug/L	76.6	10000	10000	10200	10200	101	101	75-125	0	20	
Manganese, Dissolved	ug/L	227	1000	1000	1200	1210	98	98	75-125	0	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

QC Batch:	MSV/62480	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60171936001, 60171936002, 60171936003, 60171936004, 60171936005, 60171936006, 60171936007, 60171936008		

METHOD BLANK:	1399174	Matrix:	Water
Associated Lab Samples:	60171936001, 60171936002, 60171936003, 60171936004, 60171936005, 60171936006, 60171936007, 60171936008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/23/14 09:29	
Benzene	ug/L	ND	1.0	06/23/14 09:29	
Ethylbenzene	ug/L	ND	1.0	06/23/14 09:29	
Methylene chloride	ug/L	ND	1.0	06/23/14 09:29	
Toluene	ug/L	ND	1.0	06/23/14 09:29	
Xylene (Total)	ug/L	ND	3.0	06/23/14 09:29	
1,2-Dichloroethane-d4 (S)	%	96	80-120	06/23/14 09:29	
4-Bromofluorobenzene (S)	%	99	80-120	06/23/14 09:29	
Toluene-d8 (S)	%	97	80-120	06/23/14 09:29	

LABORATORY CONTROL SAMPLE: 1399175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	73-124	
Benzene	ug/L	20	20.4	102	80-120	
Ethylbenzene	ug/L	20	20.3	102	80-121	
Methylene chloride	ug/L	20	22.1	110	73-126	
Toluene	ug/L	20	20.1	100	80-122	
Xylene (Total)	ug/L	60	64.1	107	80-121	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			101	80-120	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

QC Batch:	MSV/62481	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60171936009, 60171936010		

METHOD BLANK: 1399192 Matrix: Water

Associated Lab Samples: 60171936009, 60171936010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/23/14 21:26	
Benzene	ug/L	ND	1.0	06/23/14 21:26	
Ethylbenzene	ug/L	ND	1.0	06/23/14 21:26	
Methylene chloride	ug/L	ND	1.0	06/23/14 21:26	
Toluene	ug/L	ND	1.0	06/23/14 21:26	
Xylene (Total)	ug/L	ND	3.0	06/23/14 21:26	
1,2-Dichloroethane-d4 (S)	%	94	80-120	06/23/14 21:26	
4-Bromofluorobenzene (S)	%	97	80-120	06/23/14 21:26	
Toluene-d8 (S)	%	99	80-120	06/23/14 21:26	

LABORATORY CONTROL SAMPLE: 1399193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	19.4	97	73-124	
Benzene	ug/L	20	20.4	102	80-120	
Ethylbenzene	ug/L	20	20.7	103	80-121	
Methylene chloride	ug/L	20	20.8	104	73-126	
Toluene	ug/L	20	20.0	100	80-122	
Xylene (Total)	ug/L	60	63.4	106	80-121	
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			92	80-120	
Toluene-d8 (S)	%			98	80-120	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

QC Batch:	OEXT/44800	Analysis Method:	EPA 8270C by SIM
QC Batch Method:	EPA 3510C	Analysis Description:	8270 Water PAH by SIM MSSV
Associated Lab Samples:	60171936001, 60171936002, 60171936003, 60171936004, 60171936005, 60171936006, 60171936007, 60171936008		

METHOD BLANK:	1399626	Matrix:	Water
Associated Lab Samples:	60171936001, 60171936002, 60171936003, 60171936004, 60171936005, 60171936006, 60171936007, 60171936008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	0.50	06/25/14 16:52	
2-Fluorobiphenyl (S)	%	87	36-120	06/25/14 16:52	
Terphenyl-d14 (S)	%	108	29-134	06/25/14 16:52	

LABORATORY CONTROL SAMPLE: 1399627

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	10	8.6	86	44-120	
2-Fluorobiphenyl (S)	%			85	36-120	
Terphenyl-d14 (S)	%			82	29-134	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

QC Batch:	WET/48644	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	60171936001, 60171936002, 60171936003, 60171936004, 60171936005, 60171936006, 60171936007, 60171936008		

METHOD BLANK:	1399705	Matrix:	Water
Associated Lab Samples:	60171936001, 60171936002, 60171936003, 60171936004, 60171936005, 60171936006, 60171936007, 60171936008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	06/24/14 09:26	

LABORATORY CONTROL SAMPLE: 1399706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	951	95	80-120	

SAMPLE DUPLICATE: 1399707

Parameter	Units	60171847001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1010	1000	0	10	

SAMPLE DUPLICATE: 1399708

Parameter	Units	60171936003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	34100	33600	1	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

QC Batch:	WETA/30023	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	60171936001, 60171936002, 60171936003, 60171936004, 60171936005, 60171936006, 60171936007, 60171936008		

METHOD BLANK: 1402016 Matrix: Water
Associated Lab Samples: 60171936001, 60171936002, 60171936003, 60171936004, 60171936005, 60171936006, 60171936007, 60171936008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/29/14 13:50	
Fluoride	mg/L	ND	0.20	06/29/14 13:50	
Sulfate	mg/L	ND	1.0	06/29/14 13:50	

METHOD BLANK: 1404324 Matrix: Water
Associated Lab Samples: 60171936001, 60171936002, 60171936003, 60171936004, 60171936005, 60171936006, 60171936007, 60171936008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	07/01/14 09:12	
Fluoride	mg/L	ND	0.20	07/01/14 09:12	
Sulfate	mg/L	ND	1.0	07/01/14 09:12	

LABORATORY CONTROL SAMPLE: 1402017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

LABORATORY CONTROL SAMPLE: 1404325

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	2.3	94	90-110	
Sulfate	mg/L	5	5.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1402018 1402019

Parameter	Units	60171936001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	640	500	500	1100	1100	92	93	80-120	0	15	
Fluoride	mg/L	ND	50	50	48.1	47.2	96	94	80-120	2	15	
Sulfate	mg/L	18900	5000	5000	25200	24800	125	117	80-120	2	15 M1	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/62480

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

Batch: MSV/62481

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

Batch: OEXT/44800

[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.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075035 MARTIN 34 NO 2

Pace Project No.: 60171936

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171936001	GW-075035-061714-CK-MW-1	EPA 3010	MPRP/27815	EPA 6010	ICP/21033
60171936002	GW-075035-061714-CK-MW-2	EPA 3010	MPRP/27815	EPA 6010	ICP/21033
60171936003	GW-075035-061714-CK-MW-3	EPA 3010	MPRP/27815	EPA 6010	ICP/21033
60171936004	GW-075035-061714-CK-MW-4	EPA 3010	MPRP/27815	EPA 6010	ICP/21033
60171936005	GW-075035-061714-CK-MW-5	EPA 3010	MPRP/27815	EPA 6010	ICP/21033
60171936006	GW-075035-061714-CK-MW-6	EPA 3010	MPRP/27815	EPA 6010	ICP/21033
60171936007	GW-075035-061714-CK-MW-7	EPA 3010	MPRP/27815	EPA 6010	ICP/21033
60171936008	GW-075035-061714-CK-MW-8	EPA 3010	MPRP/27815	EPA 6010	ICP/21033
60171936001	GW-075035-061714-CK-MW-1	EPA 3510C	OEXT/44800	EPA 8270C by SIM	MSSV/14351
60171936002	GW-075035-061714-CK-MW-2	EPA 3510C	OEXT/44800	EPA 8270C by SIM	MSSV/14351
60171936003	GW-075035-061714-CK-MW-3	EPA 3510C	OEXT/44800	EPA 8270C by SIM	MSSV/14351
60171936004	GW-075035-061714-CK-MW-4	EPA 3510C	OEXT/44800	EPA 8270C by SIM	MSSV/14351
60171936005	GW-075035-061714-CK-MW-5	EPA 3510C	OEXT/44800	EPA 8270C by SIM	MSSV/14351
60171936006	GW-075035-061714-CK-MW-6	EPA 3510C	OEXT/44800	EPA 8270C by SIM	MSSV/14351
60171936007	GW-075035-061714-CK-MW-7	EPA 3510C	OEXT/44800	EPA 8270C by SIM	MSSV/14351
60171936008	GW-075035-061714-CK-MW-8	EPA 3510C	OEXT/44800	EPA 8270C by SIM	MSSV/14351
60171936001	GW-075035-061714-CK-MW-1	EPA 5030B/8260	MSV/62480		
60171936002	GW-075035-061714-CK-MW-2	EPA 5030B/8260	MSV/62480		
60171936003	GW-075035-061714-CK-MW-3	EPA 5030B/8260	MSV/62480		
60171936004	GW-075035-061714-CK-MW-4	EPA 5030B/8260	MSV/62480		
60171936005	GW-075035-061714-CK-MW-5	EPA 5030B/8260	MSV/62480		
60171936006	GW-075035-061714-CK-MW-6	EPA 5030B/8260	MSV/62480		
60171936007	GW-075035-061714-CK-MW-7	EPA 5030B/8260	MSV/62480		
60171936008	GW-075035-061714-CK-MW-8	EPA 5030B/8260	MSV/62480		
60171936009	GW-075035-061714-CK-DUP	EPA 5030B/8260	MSV/62481		
60171936010	TRIP BLANK	EPA 5030B/8260	MSV/62481		
60171936001	GW-075035-061714-CK-MW-1	SM 2540C	WET/48644		
60171936002	GW-075035-061714-CK-MW-2	SM 2540C	WET/48644		
60171936003	GW-075035-061714-CK-MW-3	SM 2540C	WET/48644		
60171936004	GW-075035-061714-CK-MW-4	SM 2540C	WET/48644		
60171936005	GW-075035-061714-CK-MW-5	SM 2540C	WET/48644		
60171936006	GW-075035-061714-CK-MW-6	SM 2540C	WET/48644		
60171936007	GW-075035-061714-CK-MW-7	SM 2540C	WET/48644		
60171936008	GW-075035-061714-CK-MW-8	SM 2540C	WET/48644		
60171936001	GW-075035-061714-CK-MW-1	EPA 300.0	WETA/30023		
60171936002	GW-075035-061714-CK-MW-2	EPA 300.0	WETA/30023		
60171936003	GW-075035-061714-CK-MW-3	EPA 300.0	WETA/30023		
60171936004	GW-075035-061714-CK-MW-4	EPA 300.0	WETA/30023		
60171936005	GW-075035-061714-CK-MW-5	EPA 300.0	WETA/30023		
60171936006	GW-075035-061714-CK-MW-6	EPA 300.0	WETA/30023		
60171936007	GW-075035-061714-CK-MW-7	EPA 300.0	WETA/30023		
60171936008	GW-075035-061714-CK-MW-8	EPA 300.0	WETA/30023		

REPORT OF LABORATORY ANALYSIS

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



Sample Condition Upon Receipt
ESI Tech Spec Client

WO#: 60171936



60171936

Client Name: COP CRA NM

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

Tracking #: 8051 1755 9405 9410 Pace Shipping Label Used? Yes ☐ No ☒

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

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

Thermometer Used: T-239 T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.0, 1.2

Date and initials of person examining contents: Jan 6/1/14 ASD

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Filtered volume received for dissolved tests?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Includes date/time/ID/analyses	Matrix: <u>water</u>	15.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>Jan</u> Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	18.
Pace Trip Blank lot # (if purchased):	<u>051214-3</u>	19.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	20.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	21. 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: ASD for AAF Date: 6/20/14

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

Start: <u>1440</u>	Start:
End: <u>1450</u>	End:
Temp:	Temp:

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	COP CRA NM	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Jeff Walker, Angela Bown	Company Name:	
	Albuquerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672	Project Name:	Martin 34 No. 2	Pace Project Manager:	Alice Flanagan
Requested Due Date/TAT:	standard	Project Number:	075035	Pace Profile #:	5514.2

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DW WATER WASTE WATER PRODUCT P SL OIL WIPE AIR OTHER TISSE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/STOP			Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other													
1	GW-075035-001714-CK-MW-1		WTG				6.17.14 1300	8	X	X	X	X	X	X	X	X	X	X	X	X	X	21882-1 (B335) 20001/21000
2	GW-075035-001714-CK-MW-2		WTG				6.17.14 1325	8	X	X	X	X	X	X	X	X	X	X	X	X	X	507
3	GW-075035-001714-CK-MW-3		WTG				6.17.14 1400	8	X	X	X	X	X	X	X	X	X	X	X	X	X	003
4	GW-075035-001714-CK-MW-4		WTG				6.17.14 1510	8	X	X	X	X	X	X	X	X	X	X	X	X	X	005
5	GW-075035-001714-CK-MW-5		WTG				6.17.14 1710	8	X	X	X	X	X	X	X	X	X	X	X	X	X	005
6	GW-075035-001714-CK-MW-6		WTG				6.17.14 1440	8	X	X	X	X	X	X	X	X	X	X	X	X	X	004
7	GW-075035-001714-CK-MW-7		WTG				6.17.14 1030	8	X	X	X	X	X	X	X	X	X	X	X	X	X	004
8	GW-075035-001714-CK-MW-8		WTG				6.17.14 1730	8	X	X	X	X	X	X	X	X	X	X	X	X	X	004
9	GW-075035-001714-CK-dup		WTG				6.17.14 1800	3	X	X	X	X	X	X	X	X	X	X	X	X	X	3 (004) 1
10	trip blank																					005
11																						
12																						

ADDITIONAL COMMENTS ****BTEX, Methylene Chloride, 1,1,2,2-Tetrachloroethane **Chloride, Sulfate, Fluoride	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Christine Mathews	6/17/14	1400	Jeff Walker	6/19/14	0830	1.2 Y Y Y

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER	DATE Signed (MM/DD/YY):	Received on	Cooler (Y/N)	Custody Sealed	Samples Intact	
		Temp in °C				

October 06, 2014

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

RE: Project: 075035 MARTIN 34 NO. 2
Pace Project No.: 60178343

Dear Christine Matthews:

Enclosed are the analytical results for sample(s) received by the laboratory on September 18, 2014. 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: Angela Bown, COP Conestoga-Rovers & Associa
Angela Bown, Conestoga Rovers & Associates
Chris Feters, COP Conestoga-Rovers & Associa
Jeff Walker, COP Conestoga-Rovers & Associa



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407

Utah Certification #: KS00021

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60178343001	GW-075035-091714-CB-MW-1	Water	09/17/14 12:25	09/18/14 08:25
60178343002	GW-075035-091714-CB-MW-2	Water	09/17/14 14:15	09/18/14 08:25
60178343003	GW-075035-091714-CB-MW-3	Water	09/17/14 14:50	09/18/14 08:25
60178343004	GW-075035-091714-CB-MW-4	Water	09/17/14 12:45	09/18/14 08:25
60178343005	GW-075035-091714-CB-MW-5	Water	09/17/14 09:25	09/18/14 08:25
60178343006	GW-075035-091714-CB-MW-6	Water	09/17/14 13:30	09/18/14 08:25
60178343007	GW-075035-091714-CB-MW-7	Water	09/17/14 10:40	09/18/14 08:25
60178343008	GW-075035-091714-CB-MW-8	Water	09/17/14 09:45	09/18/14 08:25
60178343009	GW-075035-091714-CB-DUP	Water	09/17/14 08:00	09/18/14 08:25
60178343010	TRIP BLANK	Water	09/17/14 08:00	09/18/14 08:25

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60178343001	GW-075035-091714-CB-MW-1	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	11
		SM 2540C	MER	1
		EPA 300.0	OL	3
60178343002	GW-075035-091714-CB-MW-2	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	11
		SM 2540C	MER	1
		EPA 300.0	OL	3
60178343003	GW-075035-091714-CB-MW-3	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	11
		SM 2540C	MER	1
		EPA 300.0	OL	3
60178343004	GW-075035-091714-CB-MW-4	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	11
		SM 2540C	MER	1
		EPA 300.0	OL	3
60178343005	GW-075035-091714-CB-MW-5	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	11
		SM 2540C	MER	1
		EPA 300.0	OL	3
60178343006	GW-075035-091714-CB-MW-6	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	11
		SM 2540C	MER	1
		EPA 300.0	OL	3
60178343007	GW-075035-091714-CB-MW-7	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3
		EPA 5030B/8260	PRG	11
		SM 2540C	MER	1
		EPA 300.0	OL	3
60178343008	GW-075035-091714-CB-MW-8	EPA 6010	NDJ	3
		EPA 8270C by SIM	NAW	3

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 5030B/8260	PRG	11
		SM 2540C	MER	1
		EPA 300.0	OL	3
60178343009	GW-075035-091714-CB-DUP	EPA 5030B/8260	PRG	11
60178343010	TRIP BLANK	EPA 5030B/8260	PRG	11

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: CRA Conoco New Mexico

Date: October 06, 2014

General Information:

8 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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: MPRP/28997

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60178343001

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

- MSD (Lab ID: 1446138)
- Iron, Dissolved

R1: RPD value was outside control limits.

- MSD (Lab ID: 1446138)
- Iron, Dissolved

Additional Comments:

Analyte Comments:

QC Batch: MPRP/28997

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

- GW-075035-091714-CB-MW-1 (Lab ID: 60178343001)
- Iron, Dissolved
- GW-075035-091714-CB-MW-2 (Lab ID: 60178343002)
- Boron, Dissolved

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: CRA Conoco New Mexico

Date: October 06, 2014

Analyte Comments:

QC Batch: MPRP/28997

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

- GW-075035-091714-CB-MW-3 (Lab ID: 60178343003)
 - Boron, Dissolved
 - Iron, Dissolved
- GW-075035-091714-CB-MW-4 (Lab ID: 60178343004)
 - Iron, Dissolved
- GW-075035-091714-CB-MW-6 (Lab ID: 60178343006)
 - Boron, Dissolved
 - Iron, Dissolved
- GW-075035-091714-CB-MW-7 (Lab ID: 60178343007)
 - Boron, Dissolved
 - Iron, Dissolved
- GW-075035-091714-CB-MW-8 (Lab ID: 60178343008)
 - Boron, Dissolved
 - Iron, Dissolved

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Method: EPA 8270C by SIM

Description: 8270 MSSV PAH by SIM

Client: CRA Conoco New Mexico

Date: October 06, 2014

General Information:

8 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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: OEXT/46241

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Method: EPA 5030B/8260

Description: 8260 MSV

Client: CRA Conoco New Mexico

Date: October 06, 2014

General Information:

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

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.

- GW-075035-091714-CB-MW-1 (Lab ID: 60178343001)

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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: MSV/64547

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

QC Batch: MSV/64579

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

QC Batch: MSV/64633

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: CRA Conoco New Mexico

Date: October 06, 2014

General Information:

8 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.

H1: Analysis conducted outside the EPA method holding time.

- GW-075035-091714-CB-MW-3 (Lab ID: 60178343003)
- GW-075035-091714-CB-MW-4 (Lab ID: 60178343004)
- GW-075035-091714-CB-MW-6 (Lab ID: 60178343006)
- GW-075035-091714-CB-MW-7 (Lab ID: 60178343007)
- GW-075035-091714-CB-MW-8 (Lab ID: 60178343008)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Duplicate Sample:

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

QC Batch: WET/50590

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1451456)
- Total Dissolved Solids

Additional Comments:

Analyte Comments:

QC Batch: WET/50464

1e: Residue exceeded method limit of 0.2g

- GW-075035-091714-CB-MW-3 (Lab ID: 60178343003)
 - Total Dissolved Solids
- GW-075035-091714-CB-MW-4 (Lab ID: 60178343004)
 - Total Dissolved Solids
- GW-075035-091714-CB-MW-6 (Lab ID: 60178343006)
 - Total Dissolved Solids
- GW-075035-091714-CB-MW-7 (Lab ID: 60178343007)
 - Total Dissolved Solids
- GW-075035-091714-CB-MW-8 (Lab ID: 60178343008)
 - Total Dissolved Solids

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: CRA Conoco New Mexico

Date: October 06, 2014

General Information:

8 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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Sample: GW-075035-091714-CB-MW-1		Lab ID: 60178343001	Collected: 09/17/14 12:25		Received: 09/18/14 08:25		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	1340	ug/L	1000	10	09/20/14 11:50	10/01/14 14:30	7440-42-8	D3,M1, R1
Iron, Dissolved	ND	ug/L	500	10	09/20/14 11:50	10/01/14 14:30	7439-89-6	
Manganese, Dissolved	196	ug/L	50.0	10	09/20/14 11:50	10/01/14 14:30	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	38.2	ug/L	2.5	5	09/23/14 00:00	09/26/14 22:11	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	64	%	36-120	1	09/23/14 00:00	09/25/14 20:59	321-60-8	
Terphenyl-d14 (S)	70	%	29-134	1	09/23/14 00:00	09/25/14 20:59	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	3650	ug/L	100	100		09/22/14 17:06	71-43-2	
Ethylbenzene	463	ug/L	100	100		09/22/14 17:06	100-41-4	
Methylene chloride	ND	ug/L	100	100		09/22/14 17:06	75-09-2	
Naphthalene	ND	ug/L	1000	100		09/22/14 17:06	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		09/22/14 17:06	79-34-5	
Toluene	7980	ug/L	100	100		09/22/14 17:06	108-88-3	
Xylene (Total)	7300	ug/L	300	100		09/22/14 17:06	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	100		09/22/14 17:06	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120	100		09/22/14 17:06	17060-07-0	
Toluene-d8 (S)	98	%	80-120	100		09/22/14 17:06	2037-26-5	
Preservation pH	3.0		0.10	100		09/22/14 17:06		pH
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	29100	mg/L	5.0	1		09/23/14 12:16		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	553	mg/L	100	100		09/25/14 18:48	16887-00-6	
Fluoride	ND	mg/L	0.20	1		09/25/14 00:26	16984-48-8	
Sulfate	18200	mg/L	2000	2000		09/28/14 11:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Sample: GW-075035-091714-CB-MW-2		Lab ID: 60178343002	Collected: 09/17/14 14:15	Received: 09/18/14 08:25	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	ND	ug/L	1000	10	09/20/14 11:50	10/01/14 14:51	7440-42-8	D3
Iron, Dissolved	3580	ug/L	500	10	09/20/14 11:50	10/01/14 14:51	7439-89-6	
Manganese, Dissolved	4260	ug/L	50.0	10	09/20/14 11:50	10/01/14 14:51	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	9.6	ug/L	0.50	1	09/23/14 00:00	09/25/14 21:20	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	76	%	36-120	1	09/23/14 00:00	09/25/14 21:20	321-60-8	
Terphenyl-d14 (S)	81	%	29-134	1	09/23/14 00:00	09/25/14 21:20	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	72.5	ug/L	5.0	5		09/22/14 17:22	71-43-2	
Ethylbenzene	293	ug/L	5.0	5		09/22/14 17:22	100-41-4	
Methylene chloride	ND	ug/L	5.0	5		09/22/14 17:22	75-09-2	
Naphthalene	ND	ug/L	50.0	5		09/22/14 17:22	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		09/22/14 17:22	79-34-5	
Toluene	8.7	ug/L	5.0	5		09/22/14 17:22	108-88-3	
Xylene (Total)	97.3	ug/L	15.0	5		09/22/14 17:22	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	5		09/22/14 17:22	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	5		09/22/14 17:22	17060-07-0	
Toluene-d8 (S)	98	%	80-120	5		09/22/14 17:22	2037-26-5	
Preservation pH	1.0		0.10	5		09/22/14 17:22		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	31400	mg/L	5.0	1		09/23/14 12:16		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	418	mg/L	50.0	50		09/25/14 19:03	16887-00-6	
Fluoride	ND	mg/L	0.20	1		09/25/14 00:41	16984-48-8	
Sulfate	21800	mg/L	2000	2000		09/28/14 11:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Sample: GW-075035-091714-CB-MW-3		Lab ID: 60178343003	Collected: 09/17/14 14:50	Received: 09/18/14 08:25	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	ND ug/L		1000	10	09/20/14 11:50	10/01/14 15:53	7440-42-8	D3
Iron, Dissolved	ND ug/L		500	10	09/20/14 11:50	10/01/14 15:53	7439-89-6	D3
Manganese, Dissolved	278 ug/L		50.0	10	09/20/14 11:50	10/01/14 15:53	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	ND ug/L		0.50	1	09/23/14 00:00	09/25/14 21:40	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	77 %		36-120	1	09/23/14 00:00	09/25/14 21:40	321-60-8	
Terphenyl-d14 (S)	87 %		29-134	1	09/23/14 00:00	09/25/14 21:40	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		09/22/14 16:01	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		09/22/14 16:01	100-41-4	
Methylene chloride	ND ug/L		1.0	1		09/22/14 16:01	75-09-2	
Naphthalene	ND ug/L		10.0	1		09/22/14 16:01	91-20-3	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		09/22/14 16:01	79-34-5	
Toluene	ND ug/L		1.0	1		09/22/14 16:01	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		09/22/14 16:01	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		09/22/14 16:01	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		80-120	1		09/22/14 16:01	17060-07-0	
Toluene-d8 (S)	98 %		80-120	1		09/22/14 16:01	2037-26-5	
Preservation pH	1.0		0.10	1		09/22/14 16:01		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	32100 mg/L		5.0	1		09/24/14 15:34		1e
Total Dissolved Solids	25800 mg/L		5.0	1		09/30/14 15:00		D6,H1
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	380 mg/L		50.0	50		09/25/14 19:18	16887-00-6	
Fluoride	ND mg/L		0.20	1		09/25/14 00:56	16984-48-8	
Sulfate	20800 mg/L		2000	2000		09/28/14 11:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Sample: GW-075035-091714-CB-MW-4		Lab ID: 60178343004	Collected: 09/17/14 12:45	Received: 09/18/14 08:25	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	1130	ug/L	1000	10	09/20/14 11:50	10/01/14 14:58	7440-42-8	D3
Iron, Dissolved	ND	ug/L	500	10	09/20/14 11:50	10/01/14 14:58	7439-89-6	
Manganese, Dissolved	1970	ug/L	50.0	10	09/20/14 11:50	10/01/14 14:58	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	1.9	ug/L	0.50	1	09/23/14 00:00	09/25/14 22:01	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	81	%	36-120	1	09/23/14 00:00	09/25/14 22:01	321-60-8	
Terphenyl-d14 (S)	75	%	29-134	1	09/23/14 00:00	09/25/14 22:01	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		09/22/14 16:17	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/22/14 16:17	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		09/22/14 16:17	75-09-2	
Naphthalene	ND	ug/L	10.0	1		09/22/14 16:17	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/22/14 16:17	79-34-5	
Toluene	ND	ug/L	1.0	1		09/22/14 16:17	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/22/14 16:17	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		09/22/14 16:17	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		09/22/14 16:17	17060-07-0	
Toluene-d8 (S)	98	%	80-120	1		09/22/14 16:17	2037-26-5	
Preservation pH	1.0		0.10	1		09/22/14 16:17		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	37200	mg/L	5.0	1		09/24/14 15:34		1e
Total Dissolved Solids	36600	mg/L	5.0	1		09/30/14 15:00		H1
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	337	mg/L	50.0	50		09/25/14 19:33	16887-00-6	
Fluoride	ND	mg/L	0.20	1		09/25/14 01:12	16984-48-8	
Sulfate	24500	mg/L	2000	2000		09/28/14 11:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Sample: GW-075035-091714-CB-MW-5 **Lab ID:** 60178343005 **Collected:** 09/17/14 09:25 **Received:** 09/18/14 08:25 **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	1330	ug/L	1000	10	09/20/14 11:50	10/01/14 15:02	7440-42-8	
Iron, Dissolved	629	ug/L	500	10	09/20/14 11:50	10/01/14 15:02	7439-89-6	
Manganese, Dissolved	752	ug/L	50.0	10	09/20/14 11:50	10/01/14 15:02	7439-96-5	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C								
Naphthalene	ND	ug/L	0.50	1	09/23/14 00:00	09/25/14 22:21	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	83	%	36-120	1	09/23/14 00:00	09/25/14 22:21	321-60-8	
Terphenyl-d14 (S)	82	%	29-134	1	09/23/14 00:00	09/25/14 22:21	1718-51-0	
8260 MSV								
Analytical Method: EPA 5030B/8260								
Benzene	203	ug/L	5.0	5		09/22/14 17:38	71-43-2	
Ethylbenzene	10.7	ug/L	5.0	5		09/22/14 17:38	100-41-4	
Methylene chloride	ND	ug/L	5.0	5		09/22/14 17:38	75-09-2	
Naphthalene	ND	ug/L	50.0	5		09/22/14 17:38	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		09/22/14 17:38	79-34-5	
Toluene	ND	ug/L	5.0	5		09/22/14 17:38	108-88-3	
Xylene (Total)	ND	ug/L	15.0	5		09/22/14 17:38	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	5		09/22/14 17:38	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	5		09/22/14 17:38	17060-07-0	
Toluene-d8 (S)	99	%	80-120	5		09/22/14 17:38	2037-26-5	
Preservation pH	1.0		0.10	5		09/22/14 17:38		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Total Dissolved Solids	16300	mg/L	5.0	1		09/24/14 15:34		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Chloride	219	mg/L	20.0	20		09/25/14 19:48	16887-00-6	
Fluoride	ND	mg/L	0.20	1		09/25/14 01:27	16984-48-8	
Sulfate	9590	mg/L	2000	2000		09/30/14 09:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Sample: GW-075035-091714-CB-MW-6		Lab ID: 60178343006	Collected: 09/17/14 13:30	Received: 09/18/14 08:25	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	ND ug/L		1000	10	09/20/14 11:50	10/01/14 15:05	7440-42-8	D3
Iron, Dissolved	ND ug/L		500	10	09/20/14 11:50	10/01/14 15:05	7439-89-6	D3
Manganese, Dissolved	1770 ug/L		50.0	10	09/20/14 11:50	10/01/14 15:05	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	19.8 ug/L		0.50	1	09/23/14 00:00	09/25/14 22:41	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	78 %		36-120	1	09/23/14 00:00	09/25/14 22:41	321-60-8	
Terphenyl-d14 (S)	75 %		29-134	1	09/23/14 00:00	09/25/14 22:41	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	7.6 ug/L		5.0	5		09/22/14 17:54	71-43-2	
Ethylbenzene	112 ug/L		5.0	5		09/22/14 17:54	100-41-4	
Methylene chloride	5.9 ug/L		5.0	5		09/22/14 17:54	75-09-2	
Naphthalene	ND ug/L		50.0	5		09/22/14 17:54	91-20-3	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	5		09/22/14 17:54	79-34-5	
Toluene	ND ug/L		5.0	5		09/22/14 17:54	108-88-3	
Xylene (Total)	996 ug/L		15.0	5		09/22/14 17:54	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	5		09/22/14 17:54	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		80-120	5		09/22/14 17:54	17060-07-0	
Toluene-d8 (S)	98 %		80-120	5		09/22/14 17:54	2037-26-5	
Preservation pH	1.0		0.10	5		09/22/14 17:54		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	34600 mg/L		5.0	1		09/24/14 15:35		1e
Total Dissolved Solids	30300 mg/L		5.0	1		09/30/14 15:01		H1
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	613 mg/L		100	100		09/25/14 20:32	16887-00-6	
Fluoride	ND mg/L		0.20	1		09/25/14 01:43	16984-48-8	
Sulfate	22100 mg/L		2000	2000		09/30/14 09:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Sample: GW-075035-091714-CB-MW-7 **Lab ID:** 60178343007 **Collected:** 09/17/14 10:40 **Received:** 09/18/14 08:25 **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	ND	ug/L	1000	10	09/20/14 11:50	10/01/14 15:09	7440-42-8	D3
Iron, Dissolved	ND	ug/L	500	10	09/20/14 11:50	10/01/14 15:09	7439-89-6	D3
Manganese, Dissolved	1920	ug/L	50.0	10	09/20/14 11:50	10/01/14 15:09	7439-96-5	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C								
Naphthalene	ND	ug/L	0.50	1	09/23/14 00:00	09/26/14 22:31	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	78	%	36-120	1	09/23/14 00:00	09/26/14 22:31	321-60-8	
Terphenyl-d14 (S)	82	%	29-134	1	09/23/14 00:00	09/26/14 22:31	1718-51-0	
8260 MSV								
Analytical Method: EPA 5030B/8260								
Benzene	2.7	ug/L	1.0	1		09/23/14 16:18	71-43-2	
Ethylbenzene	35.8	ug/L	1.0	1		09/23/14 16:18	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		09/23/14 16:18	75-09-2	
Naphthalene	ND	ug/L	10.0	1		09/23/14 16:18	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/23/14 16:18	79-34-5	
Toluene	ND	ug/L	1.0	1		09/23/14 16:18	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/23/14 16:18	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		09/23/14 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		09/23/14 16:18	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		09/23/14 16:18	2037-26-5	
Preservation pH	1.0		0.10	1		09/23/14 16:18		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Total Dissolved Solids	20400	mg/L	5.0	1		09/24/14 15:35		1e
Total Dissolved Solids	19300	mg/L	5.0	1		09/30/14 15:01		H1
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Chloride	135	mg/L	20.0	20		09/25/14 20:47	16887-00-6	
Fluoride	ND	mg/L	0.20	1		09/25/14 02:29	16984-48-8	
Sulfate	13900	mg/L	2000	2000		09/28/14 13:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Sample: GW-075035-091714-CB-MW-8		Lab ID: 60178343008	Collected: 09/17/14 09:45	Received: 09/18/14 08:25	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	ND ug/L		1000	10	09/20/14 11:50	10/01/14 15:12	7440-42-8	D3
Iron, Dissolved	ND ug/L		500	10	09/20/14 11:50	10/01/14 15:12	7439-89-6	D3
Manganese, Dissolved	3200 ug/L		50.0	10	09/20/14 11:50	10/01/14 15:12	7439-96-5	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Naphthalene	ND ug/L		0.50	1	09/23/14 00:00	09/26/14 22:52	91-20-3	
Surrogates								
2-Fluorobiphenyl (S)	77 %		36-120	1	09/23/14 00:00	09/26/14 22:52	321-60-8	
Terphenyl-d14 (S)	71 %		29-134	1	09/23/14 00:00	09/26/14 22:52	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		09/22/14 16:34	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		09/22/14 16:34	100-41-4	
Methylene chloride	ND ug/L		1.0	1		09/22/14 16:34	75-09-2	
Naphthalene	ND ug/L		10.0	1		09/22/14 16:34	91-20-3	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		09/22/14 16:34	79-34-5	
Toluene	ND ug/L		1.0	1		09/22/14 16:34	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		09/22/14 16:34	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		09/22/14 16:34	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		80-120	1		09/22/14 16:34	17060-07-0	
Toluene-d8 (S)	98 %		80-120	1		09/22/14 16:34	2037-26-5	
Preservation pH	1.0		0.10	1		09/22/14 16:34		
2540C Total Dissolved Solids		Analytical Method: SM 2540C						
Total Dissolved Solids	24900 mg/L		5.0	1		09/24/14 15:35		1e
Total Dissolved Solids	23900 mg/L		5.0	1		09/30/14 15:01		H1
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Chloride	612 mg/L		100	100		09/25/14 21:02	16887-00-6	
Fluoride	ND mg/L		0.20	1		09/25/14 02:44	16984-48-8	
Sulfate	16500 mg/L		2000	2000		09/28/14 13:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Sample: GW-075035-091714-CB-DUP **Lab ID:** 60178343009 Collected: 09/17/14 08:00 Received: 09/18/14 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	2980	ug/L	20.0	20		09/23/14 16:34	71-43-2	
Ethylbenzene	197	ug/L	1.0	1		09/22/14 16:50	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		09/22/14 16:50	75-09-2	
Naphthalene	37.6	ug/L	10.0	1		09/22/14 16:50	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/22/14 16:50	79-34-5	
Toluene	7000	ug/L	100	100		09/25/14 13:37	108-88-3	
Xylene (Total)	5900	ug/L	60.0	20		09/23/14 16:34	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	106	%	80-120	1		09/22/14 16:50	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	80-120	1		09/22/14 16:50	17060-07-0	
Toluene-d8 (S)	105	%	80-120	1		09/22/14 16:50	2037-26-5	
Preservation pH	1.0		0.10	1		09/22/14 16:50		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Sample: TRIP BLANK		Lab ID: 60178343010	Collected: 09/17/14 08:00	Received: 09/18/14 08:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		09/22/14 15:45	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		09/22/14 15:45	100-41-4	
Methylene chloride	ND ug/L		1.0	1		09/22/14 15:45	75-09-2	
Naphthalene	ND ug/L		10.0	1		09/22/14 15:45	91-20-3	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		09/22/14 15:45	79-34-5	
Toluene	ND ug/L		1.0	1		09/22/14 15:45	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		09/22/14 15:45	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		09/22/14 15:45	460-00-4	
1,2-Dichloroethane-d4 (S)	95 %		80-120	1		09/22/14 15:45	17060-07-0	
Toluene-d8 (S)	98 %		80-120	1		09/22/14 15:45	2037-26-5	
Preservation pH	1.0		0.10	1		09/22/14 15:45		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

QC Batch:	MPRP/28997	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
Associated Lab Samples:	60178343001, 60178343002, 60178343003, 60178343004, 60178343005, 60178343006, 60178343007, 60178343008		

METHOD BLANK:	1446135	Matrix:	Water
Associated Lab Samples:	60178343001, 60178343002, 60178343003, 60178343004, 60178343005, 60178343006, 60178343007, 60178343008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	10/01/14 14:15	
Iron, Dissolved	ug/L	ND	50.0	10/01/14 14:15	
Manganese, Dissolved	ug/L	ND	5.0	10/01/14 14:15	

LABORATORY CONTROL SAMPLE: 1446136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	984	98	80-120	
Iron, Dissolved	ug/L	10000	10400	104	80-120	
Manganese, Dissolved	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1446137 1446138

Parameter	Units	60178343001 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	1340	1000	1000	2580	2460	124	112	75-125	5	20	
Iron, Dissolved	ug/L	ND	10000	10000	9470	12800	95	128	75-125	30	20	M1, R1
Manganese, Dissolved	ug/L	196	1000	1000	1430	1370	123	117	75-125	4	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

QC Batch:	MSV/64547	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60178343001, 60178343002, 60178343003, 60178343004, 60178343005, 60178343006, 60178343008, 60178343009, 60178343010		

METHOD BLANK: 1447163 Matrix: Water
Associated Lab Samples: 60178343001, 60178343002, 60178343003, 60178343004, 60178343005, 60178343006, 60178343008, 60178343009, 60178343010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/22/14 15:29	
Benzene	ug/L	ND	1.0	09/22/14 15:29	
Ethylbenzene	ug/L	ND	1.0	09/22/14 15:29	
Methylene chloride	ug/L	ND	1.0	09/22/14 15:29	
Naphthalene	ug/L	ND	10.0	09/22/14 15:29	
Toluene	ug/L	ND	1.0	09/22/14 15:29	
Xylene (Total)	ug/L	ND	3.0	09/22/14 15:29	
1,2-Dichloroethane-d4 (S)	%	96	80-120	09/22/14 15:29	
4-Bromofluorobenzene (S)	%	101	80-120	09/22/14 15:29	
Toluene-d8 (S)	%	97	80-120	09/22/14 15:29	

LABORATORY CONTROL SAMPLE: 1447164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	73-124	
Benzene	ug/L	20	19.9	100	80-120	
Ethylbenzene	ug/L	20	20.6	103	80-121	
Methylene chloride	ug/L	20	19.2	96	73-126	
Naphthalene	ug/L	20	19.4	97	73-130	
Toluene	ug/L	20	19.9	99	80-122	
Xylene (Total)	ug/L	60	61.2	102	80-121	
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			99	80-120	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

QC Batch:	MSV/64579	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60178343007, 60178343009		

METHOD BLANK: 1447667 Matrix: Water

Associated Lab Samples: 60178343007, 60178343009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/23/14 12:49	
Benzene	ug/L	ND	1.0	09/23/14 12:49	
Ethylbenzene	ug/L	ND	1.0	09/23/14 12:49	
Methylene chloride	ug/L	ND	1.0	09/23/14 12:49	
Naphthalene	ug/L	ND	10.0	09/23/14 12:49	
Toluene	ug/L	ND	1.0	09/23/14 12:49	
Xylene (Total)	ug/L	ND	3.0	09/23/14 12:49	
1,2-Dichloroethane-d4 (S)	%	100	80-120	09/23/14 12:49	
4-Bromofluorobenzene (S)	%	100	80-120	09/23/14 12:49	
Toluene-d8 (S)	%	100	80-120	09/23/14 12:49	

LABORATORY CONTROL SAMPLE: 1447668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	19.4	97	73-124	
Benzene	ug/L	20	19.4	97	80-120	
Ethylbenzene	ug/L	20	20.0	100	80-121	
Methylene chloride	ug/L	20	19.6	98	73-126	
Naphthalene	ug/L	20	19.1	96	73-130	
Toluene	ug/L	20	19.6	98	80-122	
Xylene (Total)	ug/L	60	62.2	104	80-121	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

QC Batch:	MSV/64633	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60178343009		

METHOD BLANK: 1448824 Matrix: Water

Associated Lab Samples: 60178343009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane-d4 (S)	%	100	80-120	09/25/14 10:07	
4-Bromofluorobenzene (S)	%	101	80-120	09/25/14 10:07	
Toluene-d8 (S)	%	100	80-120	09/25/14 10:07	

LABORATORY CONTROL SAMPLE: 1448825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

QC Batch:	OEXT/46241	Analysis Method:	EPA 8270C by SIM
QC Batch Method:	EPA 3510C	Analysis Description:	8270 Water PAH by SIM MSSV
Associated Lab Samples:	60178343001, 60178343002, 60178343003, 60178343004, 60178343005, 60178343006, 60178343007, 60178343008		

METHOD BLANK:	1447354	Matrix:	Water
Associated Lab Samples:	60178343001, 60178343002, 60178343003, 60178343004, 60178343005, 60178343006, 60178343007, 60178343008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	0.50	09/25/14 20:18	
2-Fluorobiphenyl (S)	%	75	36-120	09/25/14 20:18	
Terphenyl-d14 (S)	%	68	29-134	09/25/14 20:18	

LABORATORY CONTROL SAMPLE: 1447355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	10	8.0	80	44-120	
2-Fluorobiphenyl (S)	%			74	36-120	
Terphenyl-d14 (S)	%			67	29-134	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

QC Batch:	WET/50432	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples: 60178343001, 60178343002			

METHOD BLANK: 1447358 Matrix: Water

Associated Lab Samples: 60178343001, 60178343002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/23/14 12:08	

LABORATORY CONTROL SAMPLE: 1447359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	981	98	80-120	

SAMPLE DUPLICATE: 1447360

Parameter	Units	60178288001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2850	2870	1	10	

SAMPLE DUPLICATE: 1447361

Parameter	Units	60178340010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1010	1040	3	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

QC Batch: WET/50464 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60178343003, 60178343004, 60178343005, 60178343006, 60178343007, 60178343008

METHOD BLANK: 1448068 Matrix: Water
Associated Lab Samples: 60178343003, 60178343004, 60178343005, 60178343006, 60178343007, 60178343008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/24/14 15:33	

LABORATORY CONTROL SAMPLE: 1448069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	958	96	80-120	

SAMPLE DUPLICATE: 1448070

Parameter	Units	60178377012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	285	273	4	10	

SAMPLE DUPLICATE: 1448071

Parameter	Units	7518982001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3540	3490	1	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

QC Batch: WET/50590

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 60178343003, 60178343004, 60178343006, 60178343007, 60178343008

METHOD BLANK: 1451454

Matrix: Water

Associated Lab Samples: 60178343003, 60178343004, 60178343006, 60178343007, 60178343008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/30/14 15:00	

LABORATORY CONTROL SAMPLE: 1451455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	965	97	80-120	

SAMPLE DUPLICATE: 1451456

Parameter	Units	60178343003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	25800	30100	16	10	D6,H1

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

QC Batch:	WETA/31126	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	60178343001, 60178343002, 60178343003, 60178343004, 60178343005, 60178343006, 60178343007, 60178343008		

METHOD BLANK: 1448214 Matrix: Water
Associated Lab Samples: 60178343001, 60178343002, 60178343003, 60178343004, 60178343005, 60178343006, 60178343007, 60178343008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.20	09/24/14 21:05	

METHOD BLANK: 1448901 Matrix: Water
Associated Lab Samples: 60178343001, 60178343002, 60178343003, 60178343004, 60178343005, 60178343006, 60178343007, 60178343008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/25/14 15:34	

METHOD BLANK: 1450562 Matrix: Water
Associated Lab Samples: 60178343001, 60178343002, 60178343003, 60178343004, 60178343007, 60178343008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	09/28/14 10:41	

METHOD BLANK: 1451094 Matrix: Water
Associated Lab Samples: 60178343005, 60178343006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	09/30/14 09:01	

LABORATORY CONTROL SAMPLE: 1448215

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

LABORATORY CONTROL SAMPLE: 1448902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.1	101	90-110	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

LABORATORY CONTROL SAMPLE: 1450563

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

LABORATORY CONTROL SAMPLE: 1451095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1448216 1448217

Parameter	Units	60178298001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	150	500	500	613	597	93	89	80-120	3	15	
Fluoride	mg/L	ND	250	250	247	242	99	97	80-120	2	15	
Sulfate	mg/L	700	500	500	1200	1170	100	94	80-120	3	15	

MATRIX SPIKE SAMPLE: 1448218

Parameter	Units	60178298002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	168	500	634	93	80-120	
Fluoride	mg/L	ND	250	246	98	80-120	
Sulfate	mg/L	802	500	1330	105	80-120	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

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.

PQL - Practical Quantitation 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: MSV/64547

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

Batch: OEXT/46241

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

Batch: MSV/64579

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

Batch: MSV/64633

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

ANALYTE QUALIFIERS

1e Residue exceeded method limit of 0.2g

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

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

H1 Analysis conducted outside the EPA method holding time.

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

R1 RPD value was outside control limits.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60178343001	GW-075035-091714-CB-MW-1	EPA 3010	MPRP/28997	EPA 6010	ICP/21843
60178343002	GW-075035-091714-CB-MW-2	EPA 3010	MPRP/28997	EPA 6010	ICP/21843
60178343003	GW-075035-091714-CB-MW-3	EPA 3010	MPRP/28997	EPA 6010	ICP/21843
60178343004	GW-075035-091714-CB-MW-4	EPA 3010	MPRP/28997	EPA 6010	ICP/21843
60178343005	GW-075035-091714-CB-MW-5	EPA 3010	MPRP/28997	EPA 6010	ICP/21843
60178343006	GW-075035-091714-CB-MW-6	EPA 3010	MPRP/28997	EPA 6010	ICP/21843
60178343007	GW-075035-091714-CB-MW-7	EPA 3010	MPRP/28997	EPA 6010	ICP/21843
60178343008	GW-075035-091714-CB-MW-8	EPA 3010	MPRP/28997	EPA 6010	ICP/21843
60178343001	GW-075035-091714-CB-MW-1	EPA 3510C	OEXT/46241	EPA 8270C by SIM	MSSV/14876
60178343002	GW-075035-091714-CB-MW-2	EPA 3510C	OEXT/46241	EPA 8270C by SIM	MSSV/14876
60178343003	GW-075035-091714-CB-MW-3	EPA 3510C	OEXT/46241	EPA 8270C by SIM	MSSV/14876
60178343004	GW-075035-091714-CB-MW-4	EPA 3510C	OEXT/46241	EPA 8270C by SIM	MSSV/14876
60178343005	GW-075035-091714-CB-MW-5	EPA 3510C	OEXT/46241	EPA 8270C by SIM	MSSV/14876
60178343006	GW-075035-091714-CB-MW-6	EPA 3510C	OEXT/46241	EPA 8270C by SIM	MSSV/14876
60178343007	GW-075035-091714-CB-MW-7	EPA 3510C	OEXT/46241	EPA 8270C by SIM	MSSV/14876
60178343008	GW-075035-091714-CB-MW-8	EPA 3510C	OEXT/46241	EPA 8270C by SIM	MSSV/14876
60178343001	GW-075035-091714-CB-MW-1	EPA 5030B/8260	MSV/64547		
60178343002	GW-075035-091714-CB-MW-2	EPA 5030B/8260	MSV/64547		
60178343003	GW-075035-091714-CB-MW-3	EPA 5030B/8260	MSV/64547		
60178343004	GW-075035-091714-CB-MW-4	EPA 5030B/8260	MSV/64547		
60178343005	GW-075035-091714-CB-MW-5	EPA 5030B/8260	MSV/64547		
60178343006	GW-075035-091714-CB-MW-6	EPA 5030B/8260	MSV/64547		
60178343007	GW-075035-091714-CB-MW-7	EPA 5030B/8260	MSV/64579		
60178343008	GW-075035-091714-CB-MW-8	EPA 5030B/8260	MSV/64547		
60178343009	GW-075035-091714-CB-DUP	EPA 5030B/8260	MSV/64547		
60178343009	GW-075035-091714-CB-DUP	EPA 5030B/8260	MSV/64579		
60178343009	GW-075035-091714-CB-DUP	EPA 5030B/8260	MSV/64633		
60178343010	TRIP BLANK	EPA 5030B/8260	MSV/64547		
60178343001	GW-075035-091714-CB-MW-1	SM 2540C	WET/50432		
60178343002	GW-075035-091714-CB-MW-2	SM 2540C	WET/50432		
60178343003	GW-075035-091714-CB-MW-3	SM 2540C	WET/50464		
60178343003	GW-075035-091714-CB-MW-3	SM 2540C	WET/50590		
60178343004	GW-075035-091714-CB-MW-4	SM 2540C	WET/50464		
60178343004	GW-075035-091714-CB-MW-4	SM 2540C	WET/50590		
60178343005	GW-075035-091714-CB-MW-5	SM 2540C	WET/50464		
60178343006	GW-075035-091714-CB-MW-6	SM 2540C	WET/50464		
60178343006	GW-075035-091714-CB-MW-6	SM 2540C	WET/50590		
60178343007	GW-075035-091714-CB-MW-7	SM 2540C	WET/50464		
60178343007	GW-075035-091714-CB-MW-7	SM 2540C	WET/50590		
60178343008	GW-075035-091714-CB-MW-8	SM 2540C	WET/50464		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075035 MARTIN 34 NO. 2

Pace Project No.: 60178343

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60178343008	GW-075035-091714-CB-MW-8	SM 2540C	WET/50590		
60178343001	GW-075035-091714-CB-MW-1	EPA 300.0	WETA/31126		
60178343002	GW-075035-091714-CB-MW-2	EPA 300.0	WETA/31126		
60178343003	GW-075035-091714-CB-MW-3	EPA 300.0	WETA/31126		
60178343004	GW-075035-091714-CB-MW-4	EPA 300.0	WETA/31126		
60178343005	GW-075035-091714-CB-MW-5	EPA 300.0	WETA/31126		
60178343006	GW-075035-091714-CB-MW-6	EPA 300.0	WETA/31126		
60178343007	GW-075035-091714-CB-MW-7	EPA 300.0	WETA/31126		
60178343008	GW-075035-091714-CB-MW-8	EPA 300.0	WETA/31126		

REPORT OF LABORATORY ANALYSIS

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



Sample Condition Upon Receipt
ESI Tech Spec Client

WO#: 60178343



60178343

Client Name: COP CRA

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

Tracking #: 6113 5274 8446 Pace Shipping Label Used? Yes ☐ No ☐

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

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

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.2 2.4

Date and initials of person examining contents: JB 9/18

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Includes date/time/ID/analyses	Matrix: <u>VT</u>	15.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17.
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>JB</u> Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	18.
Pace Trip Blank lot # (if purchased): <u>9/10/14</u>		19.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	20.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	21. List State: <u>AFT</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AFT Date: 9/10/14

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

Start: <u>1425</u>	Start:
End: <u>1450</u>	End:
Temp:	Temp:

Page: ofPage 36 of 36