3R – 173

2014 AGWMR

04 / 16 / 2015

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ConocoPhillips

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-173, 2014 Annual Groundwater Monitoring Report

Dear Mr. von Gonten:

Enclosed is the 2014 Annual Groundwater Monitoring Report for the Flora Vista No. 1 site. This report, prepared by Conestoga-Rovers & Associates (CRA), contains the results of groundwater monitoring from March, June, September, and December 2014.

Please let me know if you have any questions.

Sincerely,

Rick Greiner

Enc

CONESTOGA-ROVERS & ASSOCIATES

www.CRAworld.com

2014 Annual Groundwater Monitoring Report

ConocoPhillips Flora Vista No. 1
San Juan County, New Mexico
API# 30-045-20073
NMOCD# 3R-173

Prepared for: ConocoPhillips Company

Conestoga-Rovers & Associates
6121 Indian School Road, NE Suite 200
Albuquerque, New Mexico 87110

March 2015 • 074926 • Report No. 6

Partners in Sustainability

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Section 1.0 Introduction

This annual report presents the results of the quarterly groundwater monitoring events conducted by Conestoga-Rovers & Associates (CRA) during 2014 at the Flora Vista No. 1 natural gas well site (Site), operated by Burlington Resources Oil & Gas Company LP (Burlington), a wholly-owned subsidiary of ConocoPhillips Company (ConocoPhillips) (**Figure 1**). The Site is located on private property in Unit Letter F, Section 22, Township 30N, Range 12W, of San Juan County, New Mexico. The Site consists of a gas well and associated equipment and installations. A detailed Site layout map is provided as **Figure 2**.

1.1 Background

A previous operator removed an earthen dehydrator pit from service in March 1994. Hydrocarbon impacted soil was subsequently excavated in April 1994 and again in November 1995. A pit closure report was submitted to New Mexico Oil Conservation Division (NMOCD) in August 1996 by El Paso Field Services. NMOCD issued a letter to El Paso Field Services on January 24, 1997 approving pit closure and remediation.

Burlington encountered hydrocarbon-impacted soil at the Site during a production facility resetting activity in early 2003. Burlington subsequently directed the excavation of approximately 9,443 cubic yards of soil in an attempt to remove impacted soils. Groundwater was observed in the bottom of the excavation at approximately 25 feet below the ground surface. Field screening was conducted during excavation to determine extent of impacted soil. To enhance the remediation of the remaining amounts of residual hydrocarbon contamination in the excavated area, approximately 80 barrels (bbls) of a potassium permanganate oxidizer solution was sprayed on the soil.

In September 2003, Envirotech installed a groundwater monitoring well (MW-1) slightly down-gradient from the center of the excavation (**Figure 2**). Subsequent monitoring included analyses for benzene, toluene, ethylbenzene, and total xylenes (BTEX), as well as total petroleum hydrocarbons (TPH). Groundwater analyses indicated the presence of benzene and total xylenes above regulatory standards. Monitoring wells MW-2, MW-3, and MW-4 were installed at the Site in August 2008 in response to an April 2008 request from NMOCD for Site characterization and enhanced laboratory analyses.

A generalized geologic cross section was prepared using boring logs from the August 2008 monitoring well installation and is presented as **Figure 3**. In an attempt to actively remediate soil and groundwater at the Site, mobile dual phase extraction (MDPE) was conducted on August 21st and 22nd, 2013. The Flora Vista No. 1 Site history is summarized in **Table 1**.

Section 2.0 Groundwater Monitoring Summary Methodology and Analytical Results

2.1 Groundwater Monitoring Summary

During 2014 quarterly sampling events conducted on March 19, June 17, September 18, and December 18, groundwater elevation measurements were recorded in monitoring wells MW-1, MW-2, MW-3, and MW-4 using an oil/water interface probe. The only exception was during the December 2014 monitoring event when MW-1 and MW-3 were not able to be located beneath newly added gravel and asphalt in the area of the wells. Groundwater elevations are detailed in **Table 2**. Groundwater potentiometric surface maps created from 2014 data are presented as **Figures 4**, **5**, **6**, and **7**. Based on data collected during the 2014 monitoring events, groundwater flow is to the southwest, consistent with historical data for this Site.

2.2 Groundwater Monitoring Methodology

During monitoring events, at least three well volumes were purged from Site monitoring wells with a dedicated polyethylene 1.5-inch disposable bailer prior to sampling. If three well volumes could not be purged, wells were purged until dry and allowed to recharge prior to sampling. Purge water generated during sampling events was placed in the on-Site produced water tank (**Figure 2**). While bailing each well, groundwater parameter data, including temperature, pH, conductivity, dissolved oxygen, and oxidation-reduction potential were collected using a calibrated multi-parameter meter. Field parameters are summarized on **Table 3**.

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, KS. Samples were analyzed for the presence of BTEX by Environmental Protection Agency (EPA) Method 8260, and dissolved iron and dissolved manganese by EPA Method 6010.

On December 18, 2014 an attempt to collect groundwater samples from two down-gradient domestic irrigation wells was made. Domestic irrigation wells DW-1 and DW-2, located at 32 Road 3581 and 34 Road 3581, Flora Vista, NM, respectively, were not sampled during this event. The landowner for DW-1 was not at the residence during the time of the attempted sampling and it is unknown if the well had been shut in for the winter months. The landowner for DW-2 was contacted; however, a sample was not collected since the well had already been shut in for the winter months. Another attempt to collect samples from DW-1 and DW-2 will be made in March of 2015.

2.3 Groundwater Monitoring Analytical Results

Groundwater samples collected during 2014 quarterly sampling events from monitoring wells MW-2 and MW-3 and domestic irrigation wells DW-1 and DW-2 did not exceed New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards for any target constituents. Groundwater collected from monitoring wells MW-1 and MW-4 exceeded the NMWQCC standards for the following constituents:

March 2014

- **Benzene** – The NMWQCC standard for benzene is 0.010 milligrams per liter (mg/L). The concentration of benzene in the groundwater sample collected from MW-1 was 0.0822 mg/L.
- **Dissolved Iron** – The NMWQCC standard for dissolved iron is 1 mg/L. The concentration of dissolved iron in the groundwater sample collected from MW-4 was 1.33 mg/L. Insufficient water was present in MW-1 this quarter to allow for metals analysis.
- **Dissolved Manganese** – The NMWQCC standard for dissolved manganese is 0.2 mg/L. The concentration of dissolved manganese in the groundwater sample collected from MW-4 was 4.19 mg/L. Insufficient water was present in MW-1 this quarter to allow for metals analysis.

June 2014

- **Benzene** – The concentration of benzene in the groundwater sample collected from MW-1 was 0.522 mg/L.
- **Dissolved Iron** – The concentrations of dissolved iron in groundwater samples collected from MW-1 and MW-4 were 17.4 mg/L and 2.68 mg/L, respectively.
- **Dissolved Manganese** – The concentrations of dissolved manganese in groundwater samples collected from MW-1 and MW-4 were 0.896 mg/L and 4.01 mg/L, respectively.

September 2014

- **Benzene** – The concentration of benzene in the groundwater sample collected from MW-1 was 0.849 mg/L.
- **Xylenes** – The NMWQCC standard for total xylenes is 0.62 mg/L. The concentration of xylenes in the groundwater sample collected from MW-1 was 1.23 mg/L.
- **Dissolved Iron** – The concentrations of dissolved iron in groundwater samples collected from MW-1 and MW-4 were 23.4 mg/L and 3.43 mg/L, respectively.

- **Dissolved Manganese** – The concentrations of dissolved manganese in groundwater samples collected from MW-1 and MW-4 were 1.01 mg/L and 4.63 mg/L, respectively.

December 2014

- **Benzene** – The concentration of benzene in the groundwater sample collected from MW-4 was 0.0296 mg/L.
- **Dissolved Iron** – The concentration of dissolved iron in the groundwater sample collected from MW-4 was 4.02 mg/L.
- **Dissolved Manganese** – The concentrations of dissolved manganese in the groundwater sample collected from MW-4 was 4.46 mg/L.

Benzene concentration maps for the 2014 quarterly groundwater monitoring events are presented in **Figures 8, 9, 10, and 11.** A summary of the historical groundwater laboratory analytical results is presented in **Table 4**. The 2014 laboratory analytical reports are included in **Appendix A**.

Section 3.0 Conclusions and Recommendations

Groundwater samples collected from MW-1 have consistently exceeded NMWQCC groundwater quality standards for benzene, dissolved iron, and dissolved manganese from October 2008 through December 2014 and have intermittently exceeded the NMWQCC groundwater quality standards for ethylbenzene and total xylenes. BTEX constituent concentrations exhibit a decreasing trend over time in MW-1.

Groundwater samples collected from MW-4 have consistently exceeded NMWQCC groundwater quality standards for dissolved iron and dissolved manganese from October 2008 through December 2014. Benzene concentrations in samples collected from MW-4 were consistently detected above standard from well installation in 2008 until March of 2014. Since that time, no BTEX constituents have been detected above standards in MW-4. This may be attributable to the mobile dual phase extraction event that occurred at the Site in August of 2013.

Based on the historical groundwater quality data, groundwater samples collected from MW-2, MW-3, DW-1 and DW-2 have never exceeded NMWQCC groundwater quality standards for any target groundwater quality constituents.

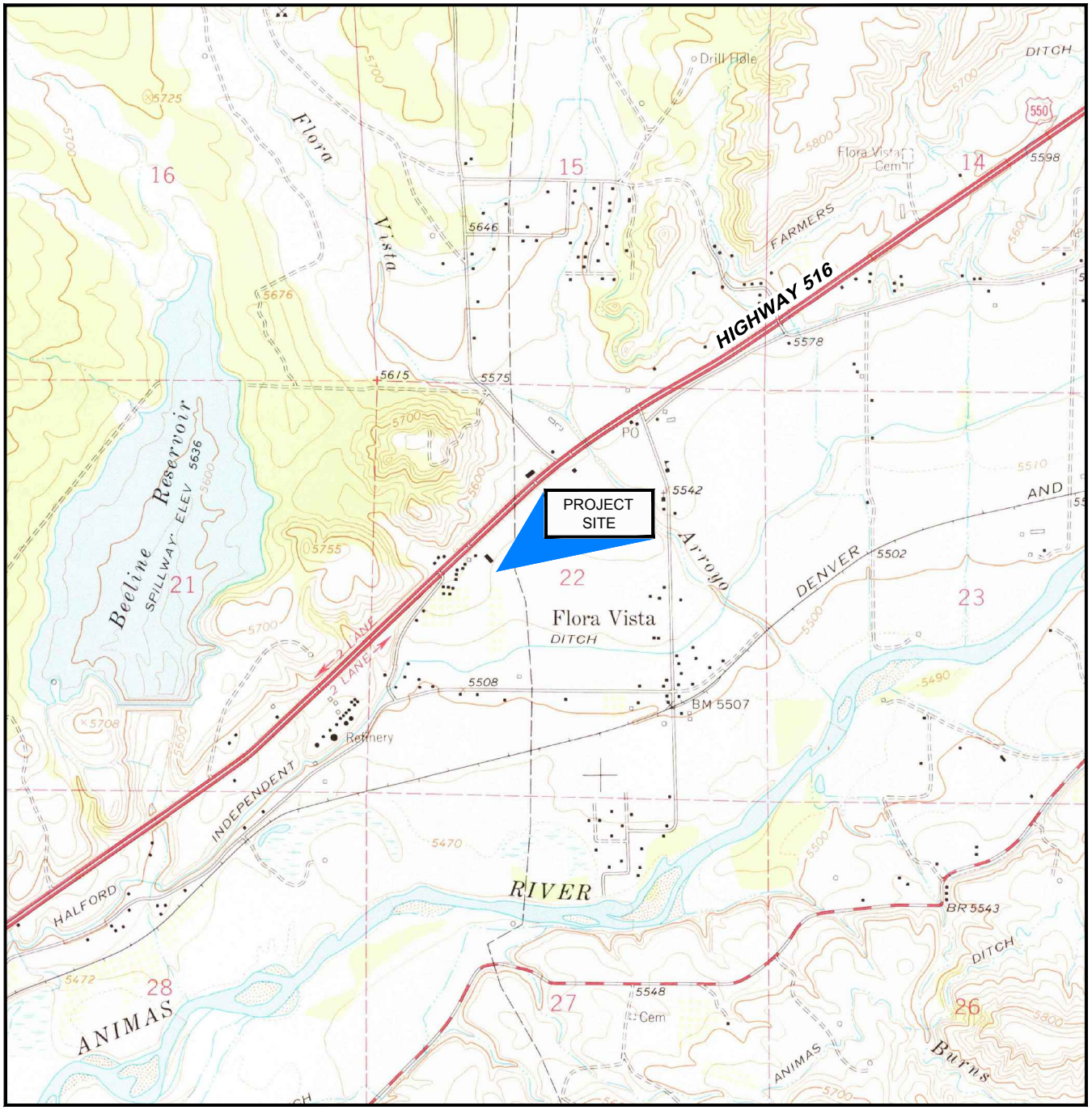
CRA recommends an assessment be made of subsurface soil and groundwater conditions north of monitoring well MW-1, between it and the on-Site storage tank, to attempt to determine

whether this tank is a source of released hydrocarbons (**Figure 12**). An additional monitoring well, MW-5, is proposed for this location. Soil and groundwater samples collected during drilling would be analyzed for hydrocarbons.

CRA recommends a sample of Site groundwater be analyzed for metals and hydrocarbon treatability via in-situ chemical oxidation or other suitable remedial technology.

CRA recommends the continuation of quarterly sampling of all Site monitoring wells and periodic sampling of DW-1 and DW-2 in order to monitor ongoing natural attenuation at the Site. The next sampling event will take place in March 2015. CRA will collect samples for BTEX, dissolved iron, and dissolved manganese. The results of the 2015 groundwater monitoring events and any additional Site assessments will be summarized in an annual report and submitted to the NMOCD during the first half of 2016.

Figures



SOURCE: USGS 7.5 MINUTE QUADS
"FLORA VISTA, NEW MEXICO"

N

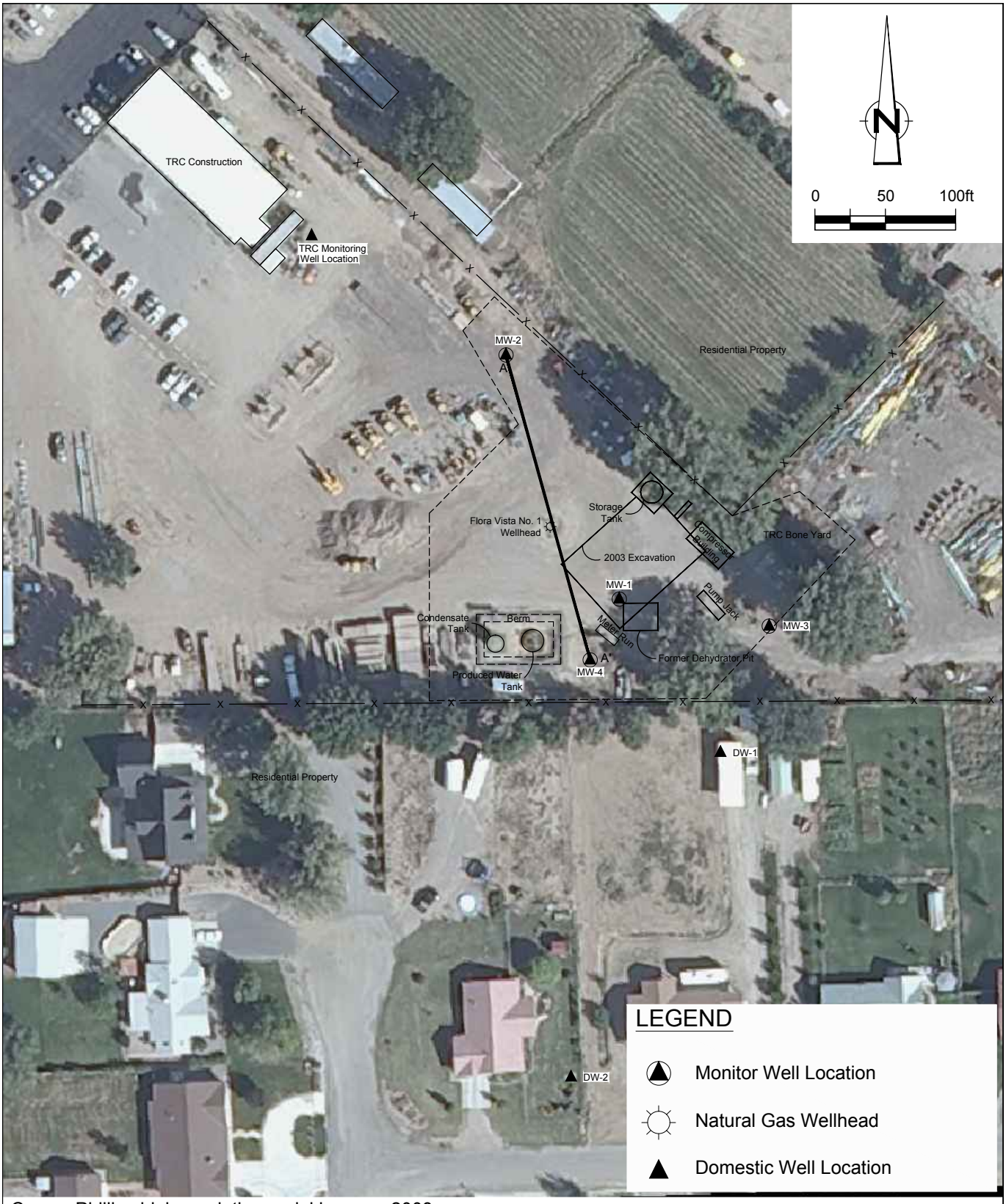
0 1000 2000ft

Figure 1

SITE VICINITY MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

CRA

074926-95(006)GN-DL001_TOPO AUG 20/2014



ConocoPhillips high resolution aerial imagery 2008.

Figure 2

SITE PLAN
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(006)GN-DL002_SD AUG 20/2014

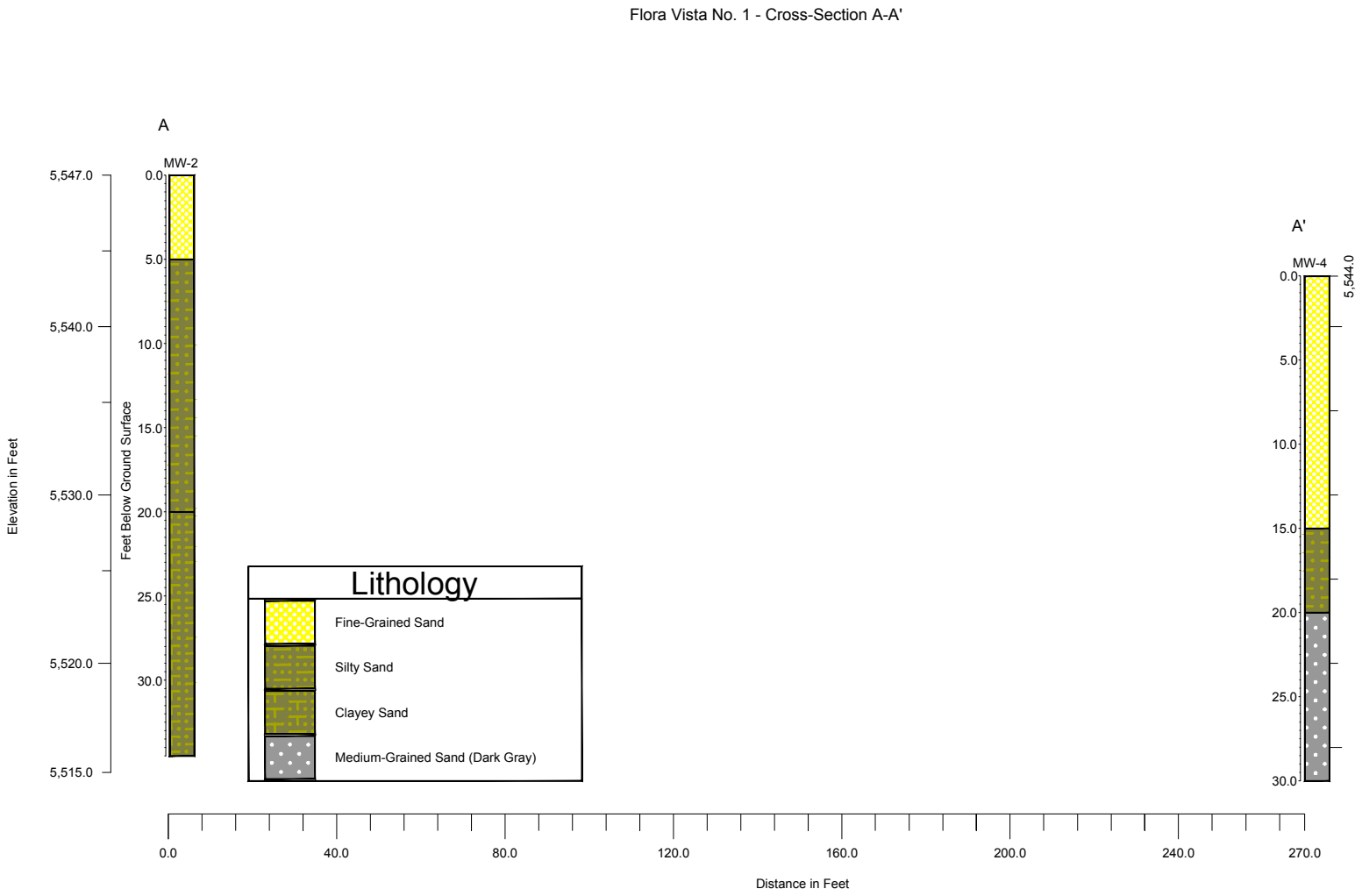


Figure 3

GEOLOGICAL CROSS SECTION
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(006)GN-DL003_XSEC AUG 20/2014

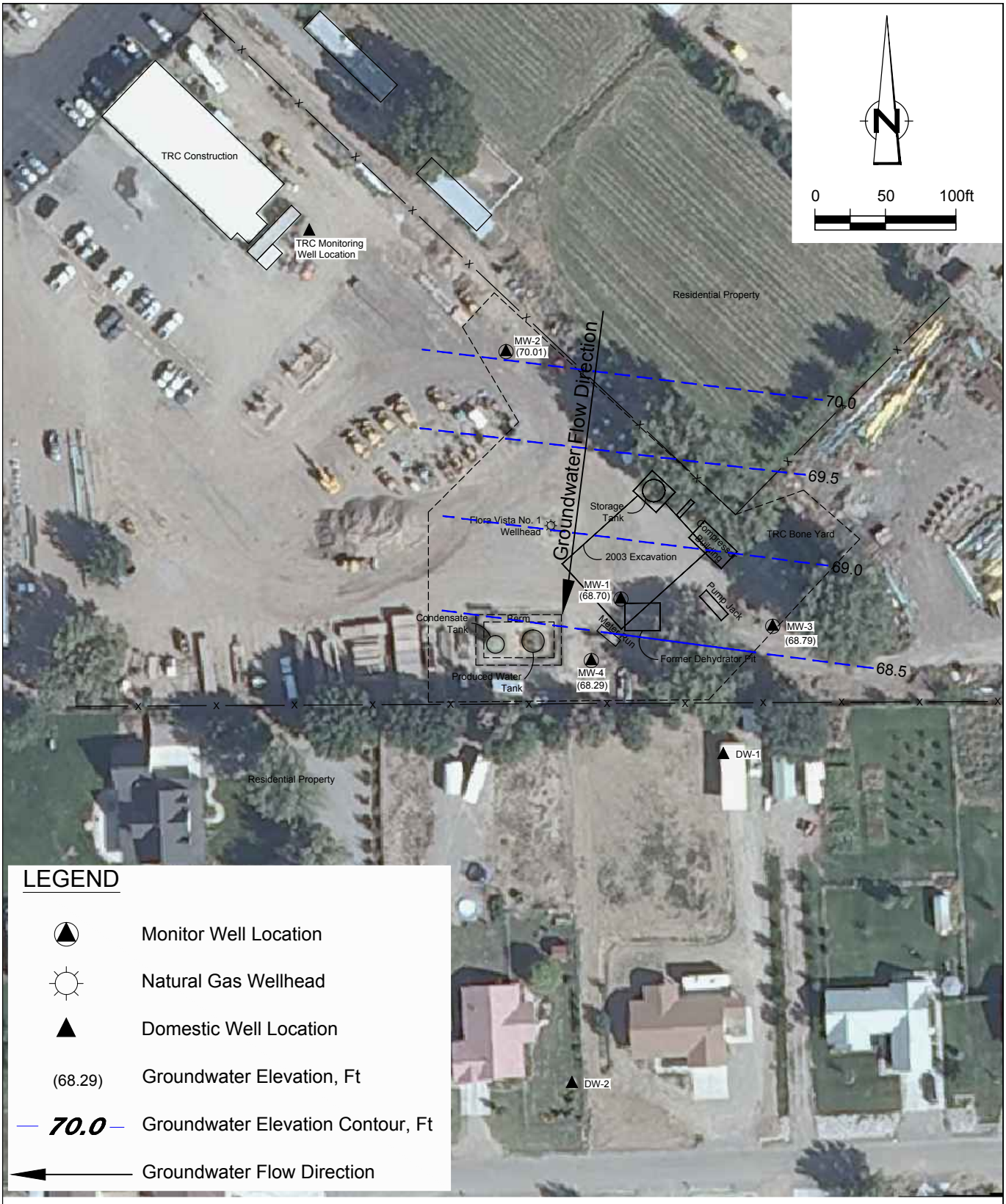


Figure 4

MARCH 2014 GROUNDWATER POTENTIOMETRIC SURFACE MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(006)GN-DL004_GG AUG 20/2014

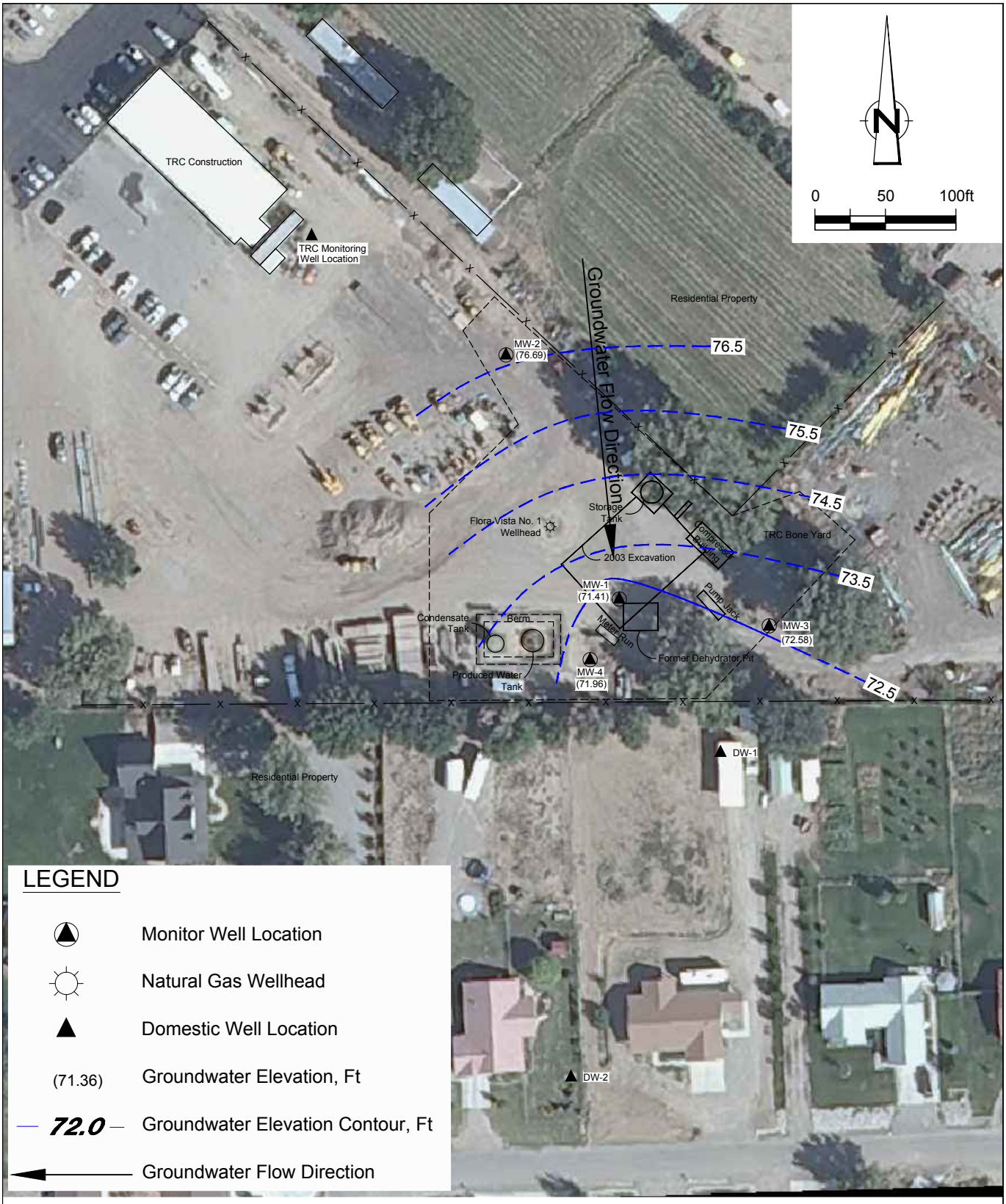


Figure 5

JUNE 2014 GROUNDWATER POTENTIOMETRIC SURFACE MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(006)GN-DL004_GG AUG 20/2014

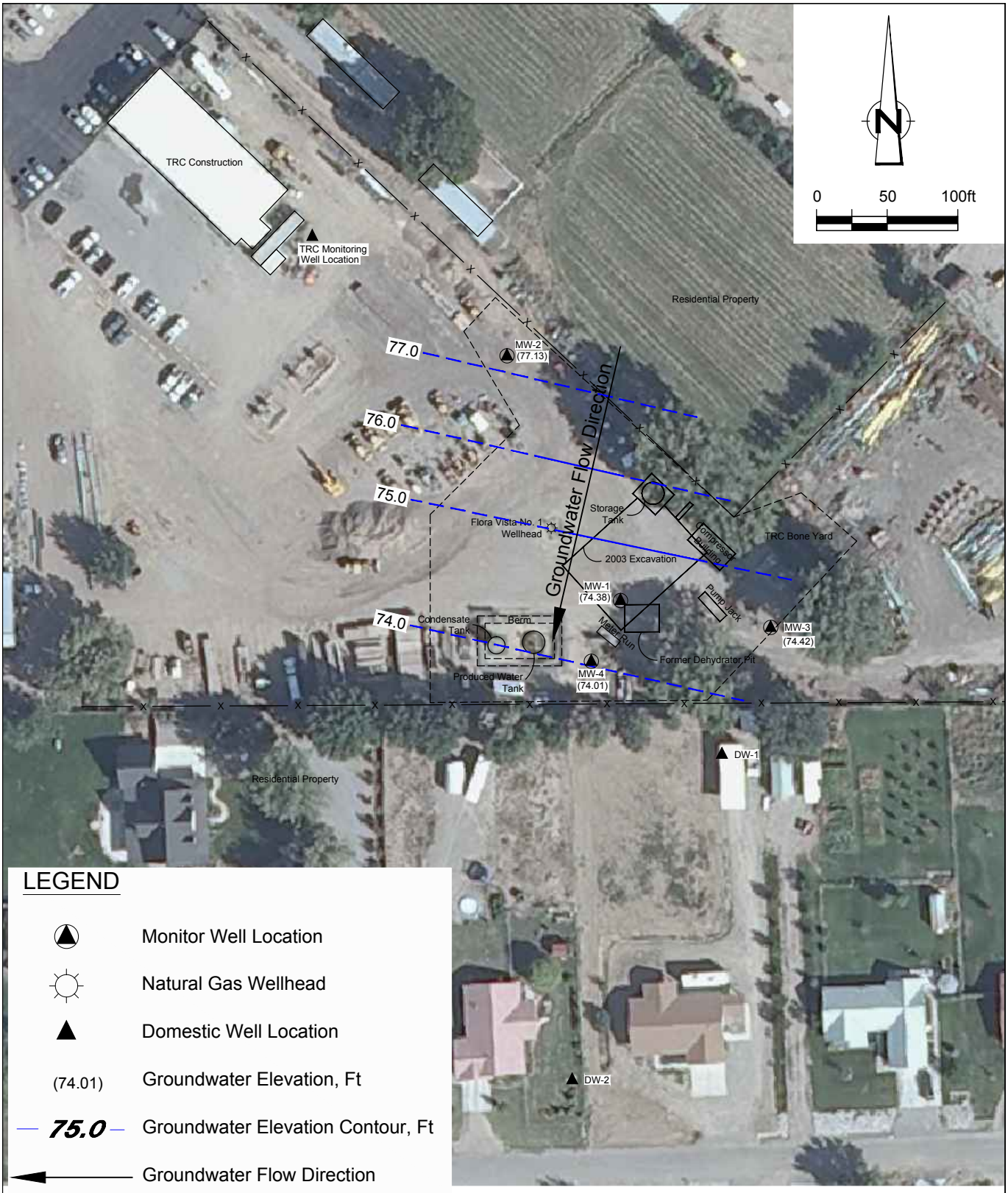


Figure 6

SEPTEMBER 2014 GROUNDWATER POTENTIOMETRIC SURFACE MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(006)GN-DL004_GG OCT 27/2014

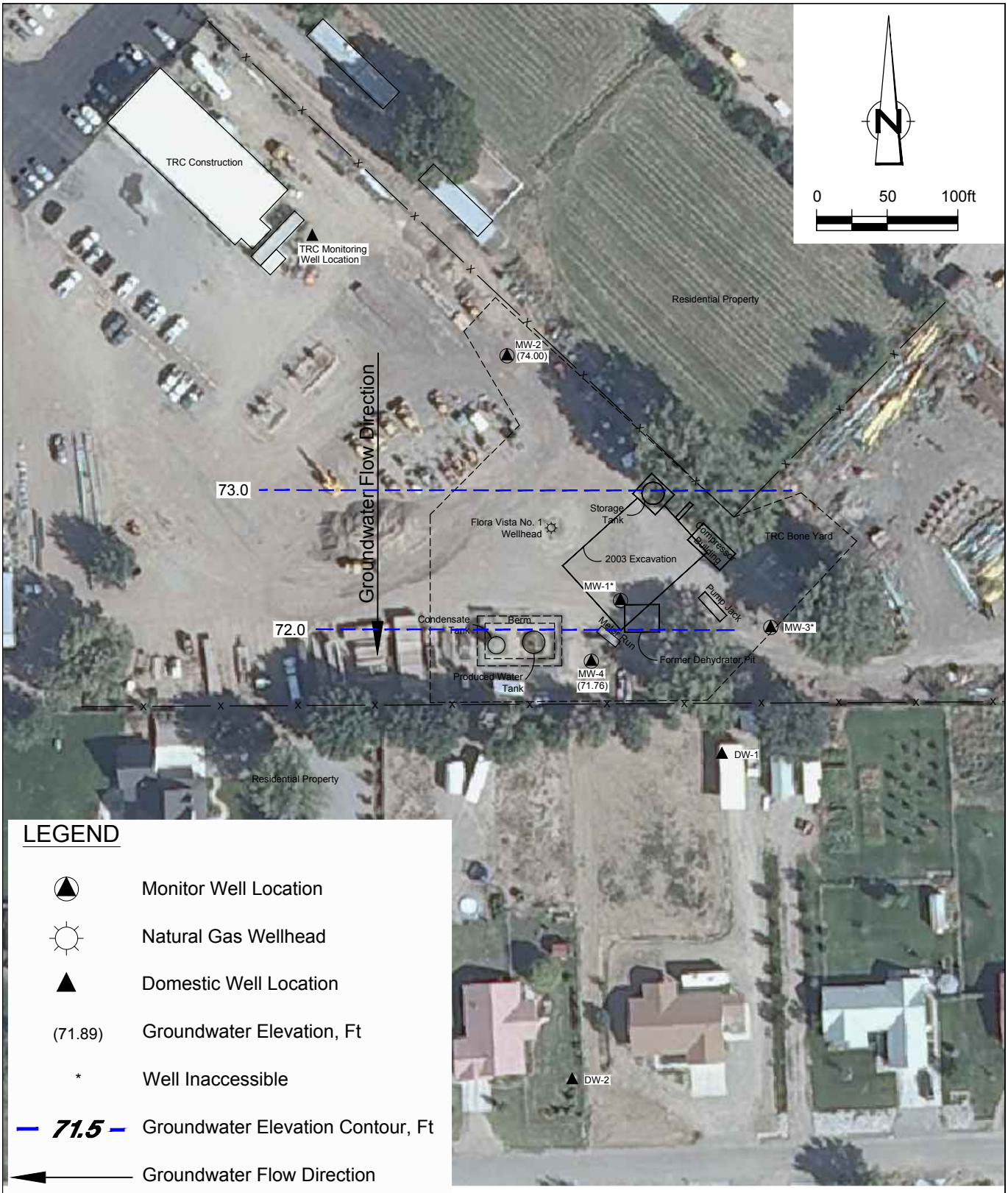


Figure 7

DECEMBER 2014 GROUNDWATER POTENTIOMETRIC SURFACE MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(006)GN-DL004_GG JAN 20/2015

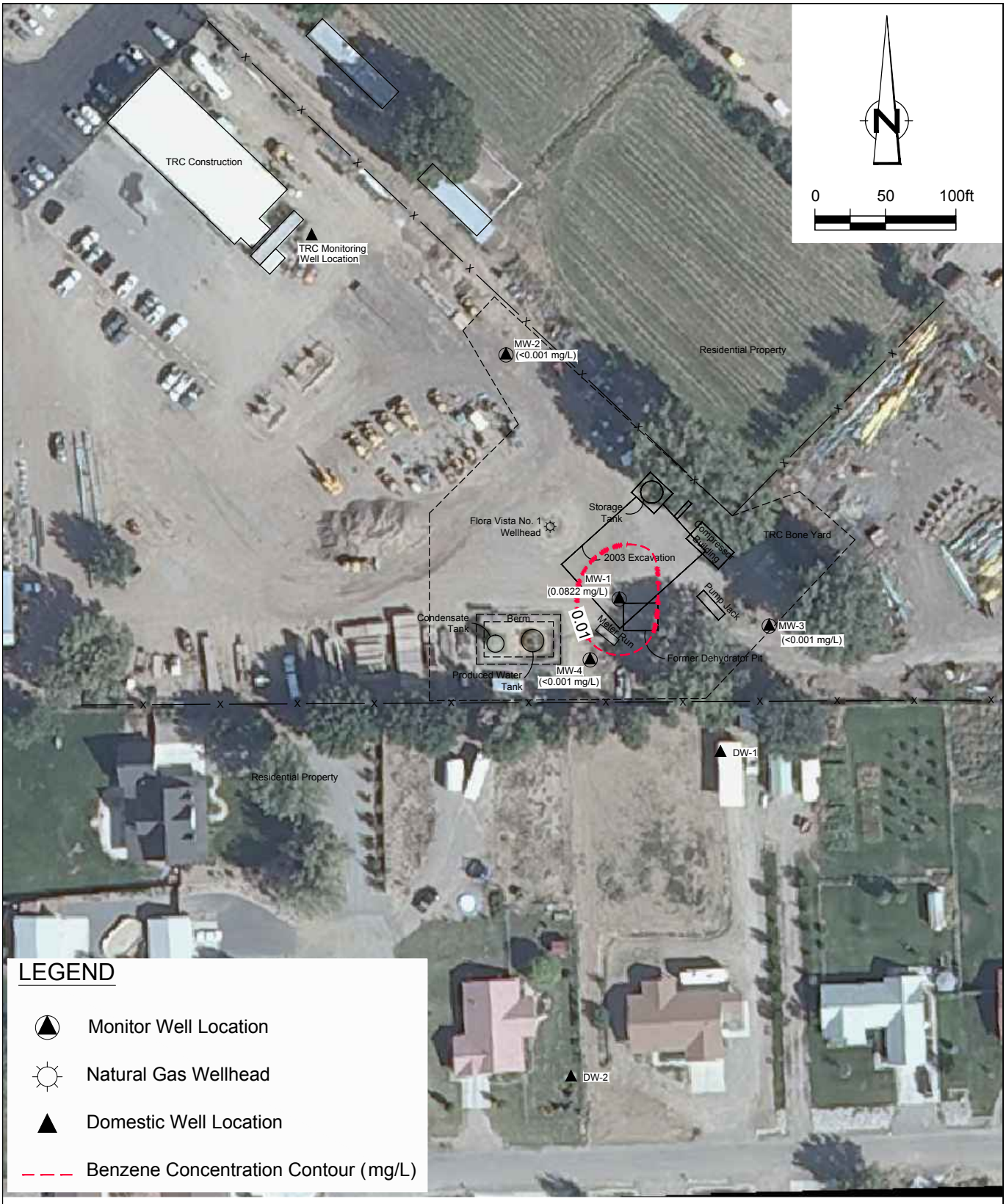


Figure 8

MARCH 2014 BENZENE CONCENTRATION MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(006)GN-DL005_BENZ JAN 20/2015

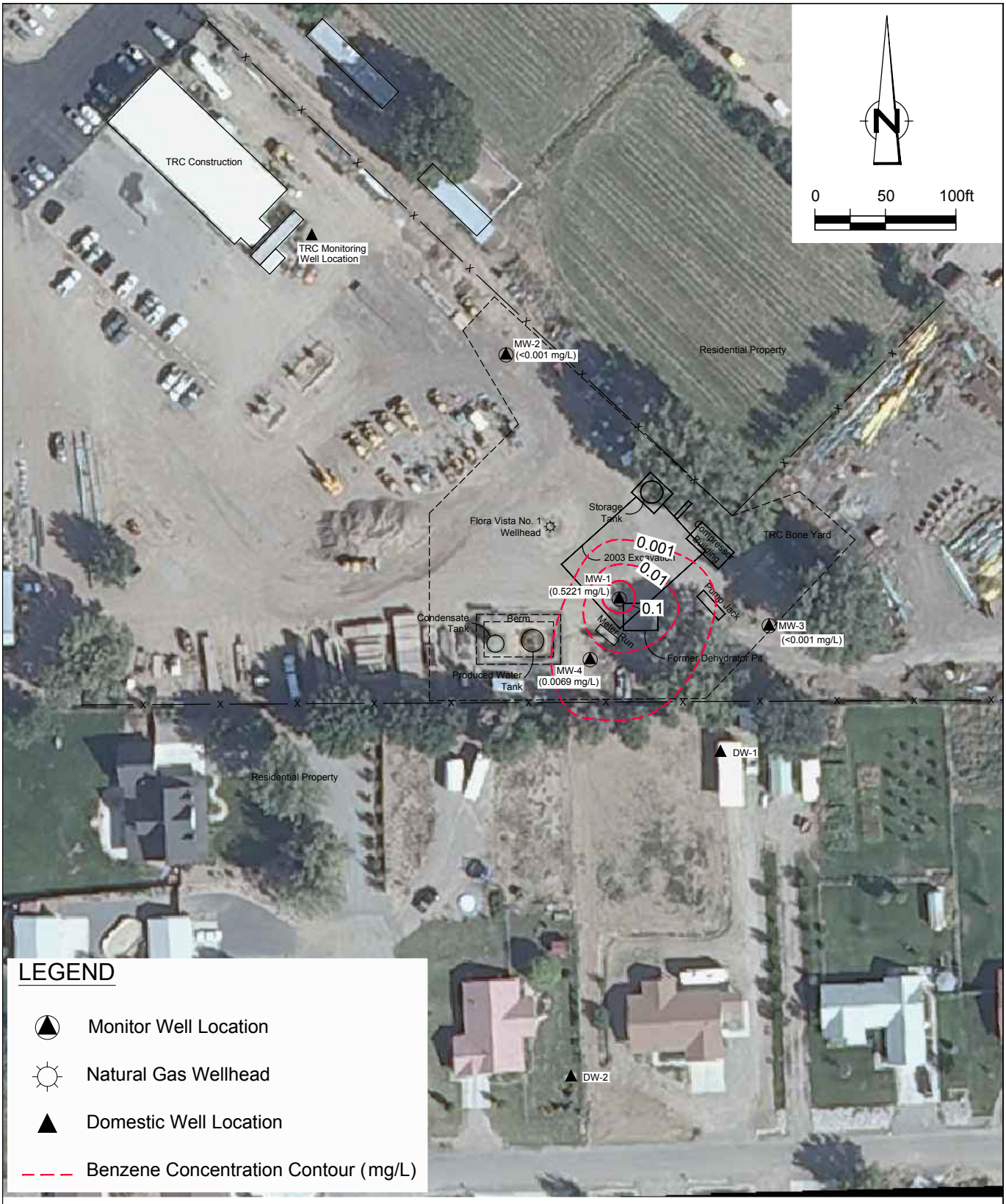


Figure 9

JUNE 2014 BENZENE CONCENTRATION MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(006)GN-DL005_BENZ OCT 27/2014

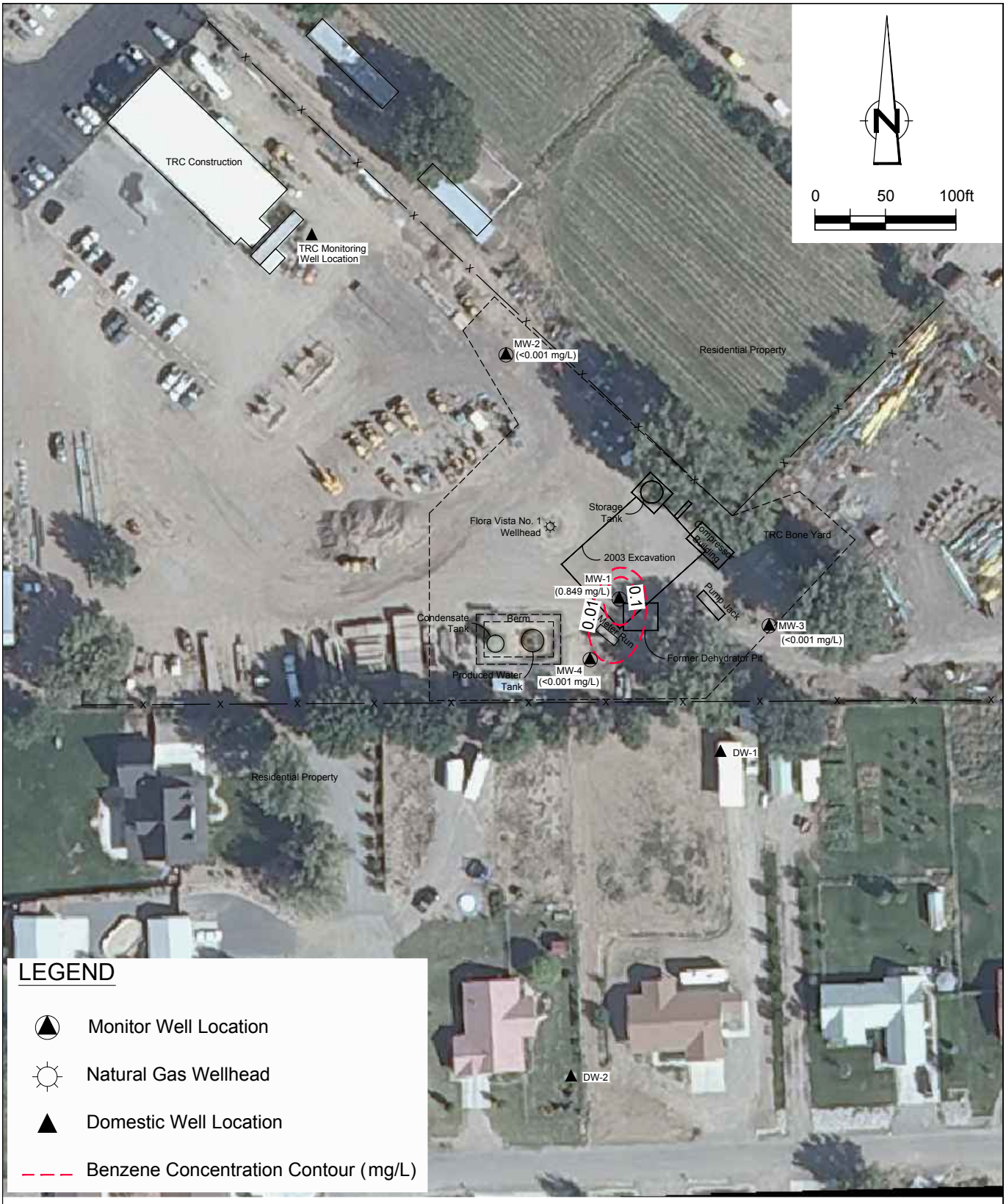


Figure 10

SEPTEMBER 2014 BENZENE CONCENTRATION MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(006)GN-DL005_BENZ JAN 20/2015

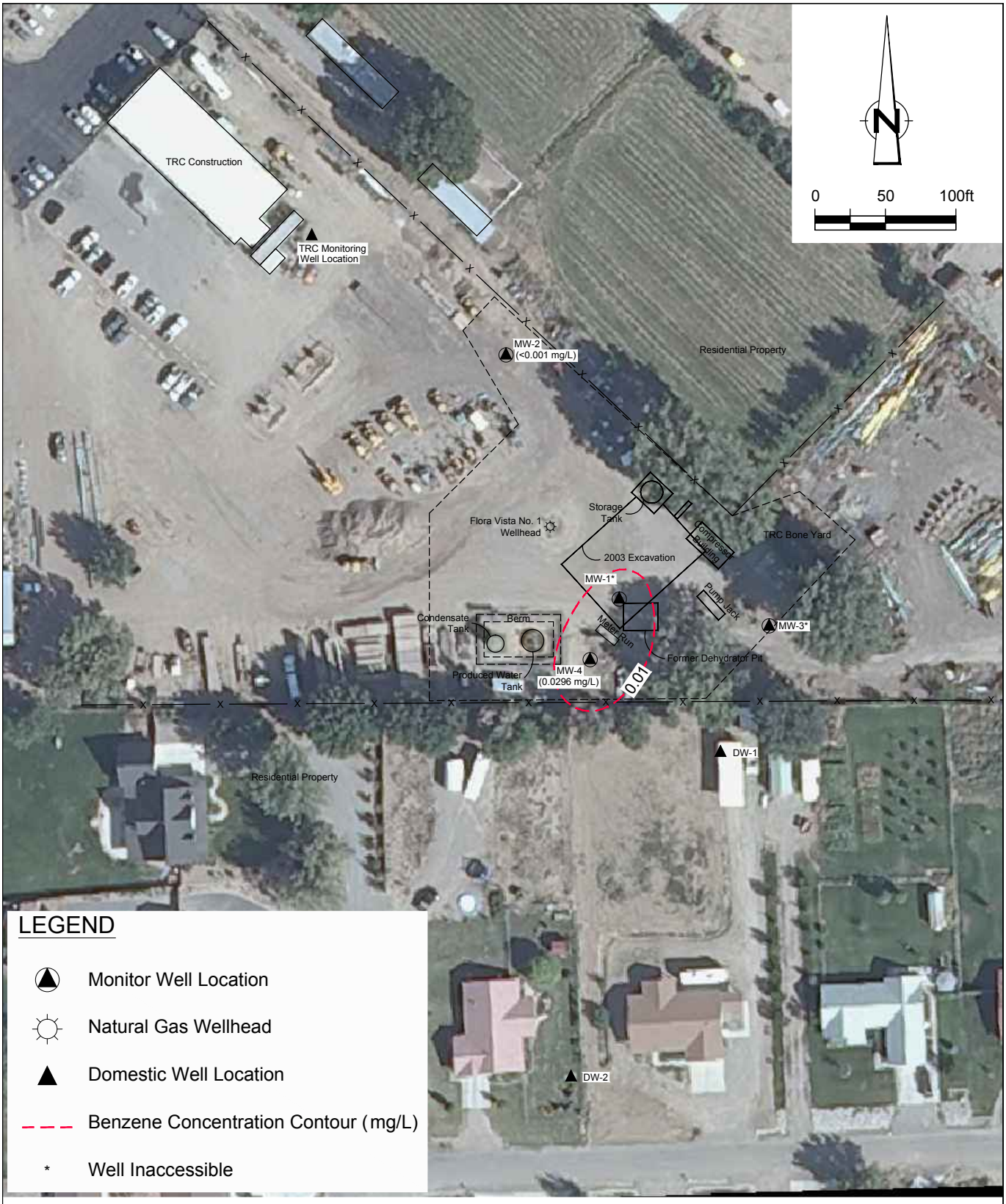
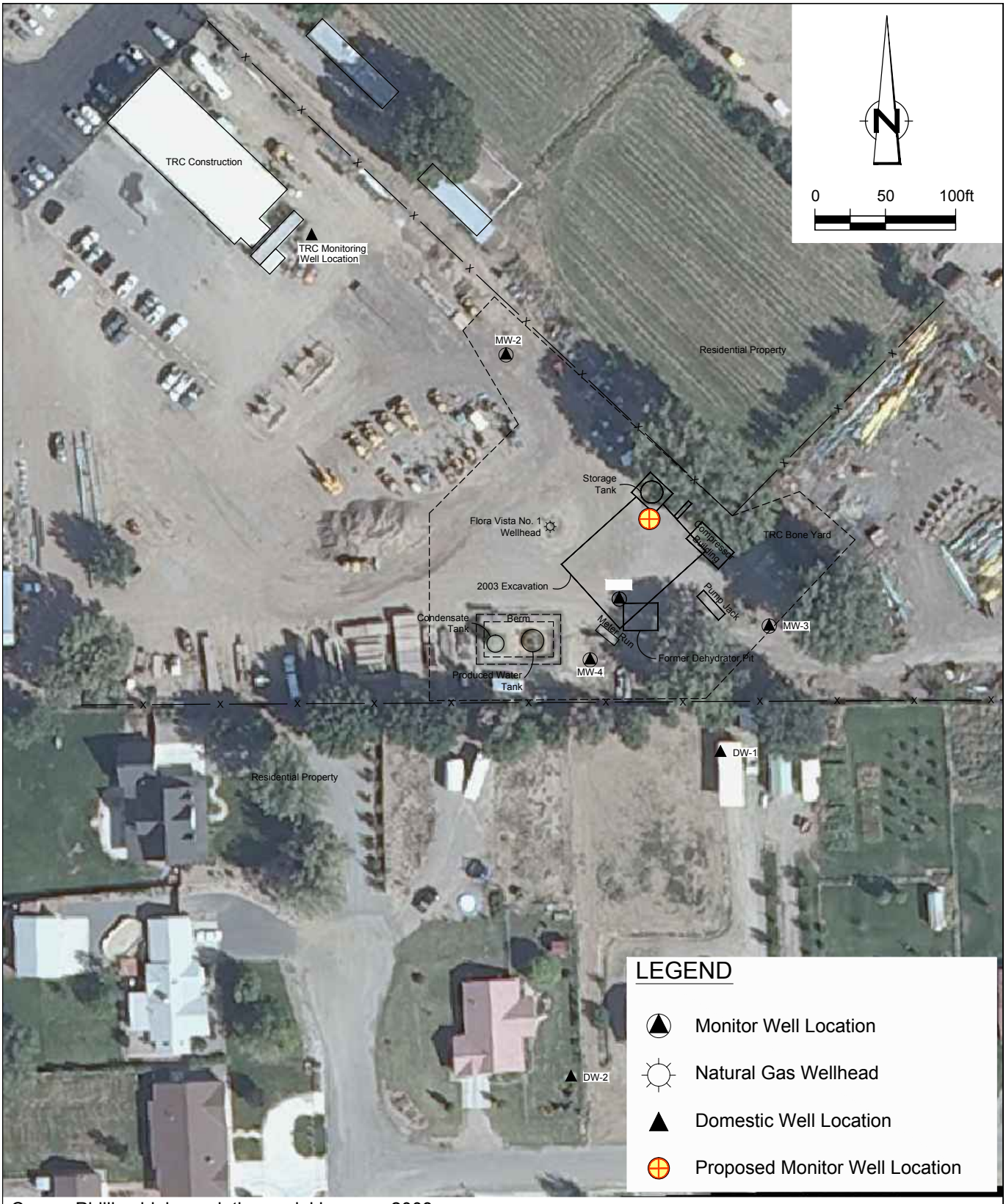


Figure 11

DECEMBER 2014 BENZENE CONCENTRATION MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(006)GN-DL005_BENZ JAN 20/2015



ConocoPhillips high resolution aerial imagery 2008.

Figure 12

PROPOSED MONITOR WELL LOCATION MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(005)GN-DL006 MAR 30/2015

Tables

TABLE 1

SITE HISTORY TIMELINE
CONOCOPHILLIPS COMPANY
FLORA VISTA NO. 1
SAN JUAN COUNTY, NEW MEXICO

Date/Time Period	*Event/Action*	*Description/Comments*
November 28, 1995	Pit Closure Activities	Philip Environmental excavated and removed approximately 850 cubic yards of soil from the area where the Flora Vista No. 1 dehydrator pit was located. Excavation activities were stopped in the north and west directions due to the positions of the compressor and meter run equipment.
July and August 1996	Submittal of Pit Closure	El Paso Field Services submits Pit Closure Reports to the New Mexico Oil Conservation Division outlining the excavation and closure of the dehydrator pit at the site.
January 24, 1997	Pit Closure Approval	El Paso Field Services receives approval of pit closure from the New Mexico Oil Conservation Division.
June and July 2003	Initial Site Assessment	Historical petroleum contaminated soil discovered during a production facility resetting activity. Environmental investigation began with the excavation of approximately 4,986 cubic yards of impacted soil and 4,446 cubic yards of clean soil. Groundwater was encountered at approximately 25 feet below the ground surface. The impacted soil was taken to a commercial landfill facility located on Crouch Mesa in Farmington, New Mexico. Approximately 80 bbls of potassium permanganate was sprayed on the soils to breakdown any minor amounts of residual petroleum contaminants. The excavation area was backfilled with clean soil.
September 2, 2003	Groundwater Monitor Well Installation	One ground water Monitor Well, MW-1, was installed slightly down-gradient from the center of the soil excavation by Envirotech. Total depth of well is 26 feet.
September of 2003 through December 13, 2006	Quarterly Groundwater Monitoring	Quarterly groundwater monitoring of MW-1 for analysis of BTEX constituents. MW-1 remained above standards for benzene, ethylbenzene, and total xylenes.
March 31, 2006	Site Transfer	ConocoPhillips Company completes acquisition of Burlington Resources.
March 2007 through January 2008	Consultant Change and Groundwater Monitoring	After the acquisition of Burlington Resources by ConocoPhillips, consulting responsibilities were transferred from Lode Star LLC of Farmington, NM to Tetra Tech of Albuquerque, NM. Tetra Tech began sampling the Flora Vista site quarterly in March of 2007. Four consecutive quarters of groundwater sampling were conducted at the Flora Vista site. Groundwater was sampled from MW-1 and was analyzed for BTEX constituents during all sampling events. MW-1 remained above standards for benzene, ethylbenzene, and total xylenes.
March 28, 2008	Reporting	Annual report for 2007 is submitted to the Oil Conservation Division of NM Energy, Minerals, and Resources Department (OCD).
April 1, 2008	Additional Monitoring Requested by OCD	Oil Conservation Division of NM Energy, Minerals, and Resources Dept. indicates additional investigation and sampling is necessary for closure consideration during a meeting with Glenn Von Gonten.
July 23, 2008	Groundwater Monitoring	Groundwater monitoring of MW-1. One sample and a duplicate were collected. Benzene and Xylenes are above NMWQCC standards.
August 12 and 13, 2008	Groundwater Monitor Well Installation and Groundwater Monitoring	Three additional groundwater Monitor Wells, MW-2, MW-3 and MW-4 were installed by WDC and overseen by Tetra Tech. MW-2 was installed upgradient of MW-1. Both MW-3 and MW-4 were installed downgradient of MW-1. Soil samples were collected from just above the groundwater interface for each boring location and sent to Southern Petroleum Laboratory for a baseline soil analysis. All wells were developed by purging approximately 80 gallons of fluid using a surge block and hand bailer/purge pump.
October 21, 2008	Groundwater Monitoring	Third quarter 2008 groundwater monitoring was completed and was the first quarter of sampling to include all four monitor wells on site. A baseline suite was completed including major ions, total metals, semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs) including BTEX, diesel range organics, and gasoline range organics. There were 3 constituents that returned results above NMWQCC limits, Benzene (MW-1 and MW-4), Total Xylenes (MW-1), and Sulfate (MW-1).
January 28, 2009	Groundwater Monitoring	Tetra Tech conducted fourth quarter 2008 groundwater monitoring at the site for BTEX constituents in all four monitor wells. Benzene (MW-1 and MW-4), Ethylbenzene (MW-1) and Xylenes (MW-1) were above NMWQCC standards.
March 1, 2009	Initiate Annual Sampling	The Flora Vista No. 1 site is put on an annual monitoring schedule. The next sampling event was scheduled for September 2009.
September 30, 2009	Groundwater Monitoring	Tetra Tech conducted 2009 annual groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1) and manganese (MW-1 and MW-4) were above NMWQCC standards.

TABLE 1

SITE HISTORY TIMELINE
CONOCOPHILLIPS COMPANY
FLORA VISTA NO. 1
SAN JUAN COUNTY, NEW MEXICO

Date/Time Period	*Event/Action*	*Description/Comments*
December 16, 2009	Private Irrigation Well Sampling	Tetra Tech collected a groundwater sample from a domestic well (DW-1) located to the south of the site to be analyzed for BTEX. All constituents were found to be below laboratory detection limits and NMWQCC standards.
May 14, 2010	Initiate Quarterly Sampling	The Flora Vista No. 1 site is put on a semi-annual monitoring schedule. Private domestic irrigation well sampling is also to be included in semi-annual sampling events.
June 10, 2010	Private Irrigation Well Sampling	Tetra Tech collected a groundwater sample from a second private down-gradient domestic well (DW-2) to be sampled for BTEX. All constituents were found to be below laboratory detection limits and NMWQCC standards.
June 10 and 11, 2010	Groundwater Monitoring	Tetra Tech conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1) and manganese (MW-1 and MW-4) were above NMWQCC standards.
September 27, 2010	Groundwater Monitoring	Tetra Tech conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron and manganese (MW-1 and MW-4) were above NMWQCC standards.
December 14, 2010	Groundwater Monitoring	Tetra Tech conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron and manganese (MW-1 and MW-4) were above NMWQCC standards.
March 17, 2011	Groundwater Monitoring	Tetra Tech conducted groundwater monitoring at the site for BTEX constituents, dissolved iron, dissolved manganese, and sulfate. Groundwater collected from MW-1 exceeded the NMWQCC standards for benzene, xylenes, dissolved iron and dissolved manganese. Groundwater collected from MW-4 exceeded the NMWQCC standards from benzene and dissolved manganese. Tetra Tech also collected a groundwater sample from a domestic well (DW-2) located to the south of the site to be analyzed for BTEX. All constituents were found to be below laboratory detection limits and NMWQCC standards in the domestic well sample.
June 15, 2011	Transfer of Site Consulting Responsibilities	On June 15, 2011, Site consulting responsibilities were transferred from Tetra Tech of Albuquerque, NM to Conestoga-Rovers & Associates (CRA) of Albuquerque, NM.
June 24, 2011	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron (MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards. CRA also collected a groundwater sample from Domestic Well DW-1 located south of the site to be analyzed for BTEX. All constituents were found to be below laboratory detection limits and NMWQCC standards in the domestic well sample.
September 29, 2011	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.
December 14, 2011	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.
March 9, 2012	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards. The well vault of MW-2 is found to be destroyed.
April 25, 2012	Well Pad Repair	CRA on site to oversee repair of MW-2.
June 7, 2012	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards. CRA also collected a groundwater sample from Domestic Well DW-2 located south of the site to be analyzed for BTEX. All constituents were found to be below laboratory detection limits and NMWQCC standards in the domestic well sample.
July 27, 2012	Private Irrigation Well Sampling	CRA collected a groundwater sample from Domestic Well DW-1 located south of the site to be analyzed for BTEX. All constituents were found to be below laboratory detection limits and NMWQCC standards in the domestic well sample.

TABLE 1

SITE HISTORY TIMELINE
CONOCOPHILLIPS COMPANY
FLORA VISTA NO. 1
SAN JUAN COUNTY, NEW MEXICO

Date/Time Period	*Event/Action*	*Description/Comments*
September 19, 2012	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese. Benzene (MW-1), xylenes (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.
December 13, 2012	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese. Benzene (MW-1 and MW-4), xylenes (MW-1), ethylbenzene (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.
March 20, 2013	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese. Benzene (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.
June 12, 2013	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.
August 21-22, 2013	Dual-Phase Extraction	CRA and subcontractor AccuVac conducted Mobile Dual-Phase Extraction from MW-1 and MW-4. 1292 gallons pumped from these wells and 0.5 gallons equivalent product removed via SVE during the two-day event.
September 11, 2013	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.
December 13, 2013	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.
March 19, 2014	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese. Benzene (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.
June 17, 2014	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese. Benzene (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.
September 18, 2014	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese. Benzene (MW-1), xylenes (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.
December 18, 2014	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese. MW-1 and MW-3 were inaccessible during this monitoring event. Benzene, dissolved iron, and dissolved manganese were above NMWQCC standards in MW-4.

TABLE 2

MONITORING WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS
CONOCOPHILLIPS COMPANY
FLORA VISTA NO. 1
SAN JUAN COUNTY, NEW MEXICO

Well ID	*Total Depth (ft below TOC)*	*Elevation**	*Screen Interval (ft bgs)*	*Date Measured*	*Depth to Groundwater (ft below TOC)*	*Relative Water Level*
MW-1	26.02	94.38	11.02 - 26.02	6/20/2003	NM	NM
				9/23/2003	17.03	77.35
				12/16/2003	20.11	74.27
				3/16/2004	23.69	70.69
				6/21/2004	19.92	74.46
				9/30/2004	16.82	77.56
				12/13/2004	20.40	73.98
				3/22/2005	24.32	70.06
				6/22/2005	NM	NM
				10/24/2005	NM	NM
				12/13/2005	21.24	73.14
				3/22/2006	24.75	69.63
				6/22/2006	20.48	73.90
				10/20/2006	19.13	75.25
				12/13/2006	21.24	73.14
				11/9/2007	19.71	74.67
				1/15/2008	NM	NM
				3/19/2008	24.35	70.03
				7/23/2008	19.89	74.49
				10/21/2008	19.48	74.90
				1/28/2009	23.96	70.42
				9/30/2009	18.16	76.22
				6/10/2010	21.64	72.74
				9/27/2010	19.31	75.07
				12/14/2010	21.41	72.97
				3/17/2011	24.95	69.43
				6/24/2011	22.55	71.83
				9/29/2011	18.37	76.01
				12/14/2011	20.63	73.75
				3/9/2012	24.12	70.26
		93.96		6/7/2012	23.08	70.88
				9/19/2012	18.94	75.02
				12/13/2012	21.22	72.74
				3/20/2013	24.79	69.17
				6/12/2013	22.51	71.45
				9/11/2013	18.34	75.62
				12/13/2013	21.53	72.43
				3/19/2014	25.26	68.70
				6/17/2014	21.55	72.41
				9/18/2014	19.58	74.38
				12/18/2014	Well covered by gravel and asphalt	
MW-2	31.35	97.1	12.35 - 27.35	10/21/2008	20.71	76.39
				1/28/2009	22.75	74.35
				9/30/2009	18.83	78.27
				6/11/2010	22.09	75.01
				9/27/2010	20.12	76.98
				12/14/2010	NM	NM
				3/17/2011	NM	NM
				6/24/2011	22.50	74.60
				9/29/2011	18.95	75.43
				12/14/2011	21.79	75.31
				3/9/2012	25.60	71.50
		97.00		6/7/2012	22.46	74.54
				9/19/2012	17.70	79.30
				12/13/2012	22.43	74.57
				3/20/2013	26.49	70.51
				6/12/2013	22.13	74.87
				9/11/2013	17.95	79.05
				12/13/2013	22.78	74.22
				3/19/2014	26.99	70.01
				6/17/2014	20.31	76.69
				9/18/2014	19.87	77.13
				12/18/2014	23.00	74.00

TABLE 2

MONITORING WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS
CONOCOPHILLIPS COMPANY
FLORA VISTA NO. 1
SAN JUAN COUNTY, NEW MEXICO

Well ID	*Total Depth (ft below TOC)*	*Elevation**	*Screen Interval (ft bgs)*	*Date Measured*	*Depth to Groundwater (ft below TOC)*	*Relative Water Level*
MW-3	30.87	92.9	11.87 - 26.87	10/21/2008	17.92	74.98
				1/28/2009	21.53	71.37
				9/30/2009	16.43	76.47
				6/10/2010	19.71	73.19
				9/27/2010	17.81	75.09
				12/14/2010	19.61	73.29
				3/17/2011	23.32	69.58
				6/24/2011	20.55	72.35
				9/29/2011	16.84	77.54
				12/14/2011	19.13	73.77
				3/9/2012	22.51	70.39
		92.43		6/7/2012	20.93	71.50
				9/19/2012	17.48	74.95
				12/13/2012	19.78	72.65
				3/20/2013	23.18	69.25
				6/12/2013	20.68	71.75
				9/11/2013	16.90	75.53
				12/13/2013	20.11	72.32
				3/19/2014	23.64	68.79
				6/17/2014	19.85	72.58
				9/18/2014	18.01	74.42
				12/18/2014	Well coverd by standing water	
MW-4	30.42	93.6	11.42 - 26.42	10/21/2008	18.06	75.54
				1/28/2009	24.55	69.05
				9/30/2009	17.89	75.71
				6/10/2010	21.02	72.58
				9/27/2010	18.93	74.67
				12/14/2010	21.04	72.56
				3/17/2011	24.58	69.02
				6/24/2011	21.80	71.80
				9/29/2011	17.94	76.44
				12/14/2011	20.28	73.32
				3/9/2012	23.70	69.90
		93.17		6/7/2012	22.19	70.98
				9/19/2012	18.60	74.57
				12/13/2012	20.96	72.21
				3/20/2013	24.38	68.79
				6/12/2013	21.81	71.36
				9/11/2013	18.89	74.28
				12/13/2013	21.28	71.89
				3/19/2014	24.88	68.29
				6/17/2014	21.21	71.96
				9/18/2014	19.16	74.01
				12/18/2014	21.41	71.76

Notes:

1. *Casing elevations are based on an arbitrary 100 ft relative surface elevation set at the gas well head
2. ft = Feet
3. TOC = Top of casing
4. bgs = below ground surface
5. NM = Not measured

TABLE 3

FIELD PARAMETERS SUMMARY
CONOCOPHILLIPS COMPANY
FLORA VISTA NO. 1
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	No parameters taken due to low well volume.						
	6/17/2014	15.52	6.08	0.601	925	2.45	-185.9	1.25
	6/17/2014	15.56	6.19	0.601	925	2.36	-174.7	1.75
	6/17/2014	15.92	6.35	0.603	928	2.64	-148.9	2.00
	9/18/2014	17.00	6.79	0.800	1280	11.19	-110.0	2.50
	9/18/2014	16.90	6.76	0.900	1330	11.26	-111.0	2.75
	12/18/2014	Well was obstructed and inaccessible due to TRC operations.						
MW-2	3/19/2014	No parameters taken due to low well volume.						
	6/17/2014	15.71	6.83	0.528	812	4.60	-81.5	4.75
	6/17/2014	15.48	6.71	0.524	807	4.41	-74.9	5.25
	6/17/2014	15.43	6.73	0.528	812	4.13	-74.8	5.75
	9/18/2014	16.40	7.08	0.600	930	10.28	65.0	4.25
	9/18/2014	16.40	7.03	0.600	910	9.88	69.0	4.75
	9/18/2014	16.50	7.04	0.600	910	9.57	71.0	5.75
	12/18/2014	15.51	7.70	0.742	1141	6.99	-18.4	3.50
	12/18/2014	15.91	7.57	0.748	1150	6.86	-4.5	4.00
	12/18/2014	15.86	7.55	0.749	1152	7.73	7.5	4.50
MW-3	3/19/2014	15.36	7.07	0.598	920	7.18	-95.7	2.00
	3/19/2014	15.47	6.75	0.596	920	4.41	-92.5	2.50
	3/19/2014	15.41	6.69	0.597	919	4.15	-90.9	3.00
	6/17/2014	14.83	6.99	0.508	781	4.51	-96.1	3.75
	6/17/2014	14.81	6.90	0.508	782	4.31	-93.8	4.25
	6/17/2014	14.80	6.89	0.507	780	4.29	-93.5	4.75
	9/18/2014	15.00	7.34	0.360	557	11.31	80.0	4.50
	9/18/2014	14.90	7.15	0.350	553	10.62	87.0	5.25
	9/18/2014	14.90	7.15	0.350	548	10.24	90.0	5.75
	12/18/2014	Well was found to be covered in standing water.						
MW-4	3/19/2014	15.49	6.12	0.698	1073	2.96	-137.8	1.75
	3/19/2014	15.56	6.50	0.676	1039	2.27	-156.1	2.25
	3/19/2014	15.51	6.32	0.671	1032	1.87	-174.8	2.75
	6/17/2014	15.51	6.85	0.600	924	3.45	-182.5	3.50
	6/17/2014	15.23	6.70	0.600	923	1.76	-186.4	4.00
	6/17/2014	15.11	6.66	0.599	922	1.29	-186.3	4.50
	9/18/2014	No parameters taken due to continuous sheen.						
	12/18/2014	15.43	7.55	0.899	1383	3.85	-64.8	3.50
	12/18/2014	15.89	7.38	0.897	1381	3.21	-93.5	4.00
	12/18/2014	16.00	7.32	0.895	1377	2.69	-106.5	4.50

Notes:
TDS = total dissolved solids
DO = dissolved oxygen
ORP = oxidation-reduction potential

TABLE 4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
FLORA VISTA NO. 1
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)	Sulfate (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Groundwater Quality Standards				***0.01***	***0.75***	***0.75***	***0.62***	***600***	***1***	***0.2***
MW-1	MW-1	6/20/2003	(orig)	**1.7**	0.49	0.3	**5.09**	--	--	--
	MW-1	9/23/2003	(orig)	**7.5**	0.66	0.02	**9.22**	--	--	--
	MW-1	12/16/2003	(orig)	**7.93**	**1.18**	0.01	**0.864**	--	--	--
	MW-1	3/16/2004	(orig)	**6.86**	**1.16**	ND	**8.47**	--	--	--
	MW-1	6/21/2004	(orig)	**4.14**	0.43	ND	**3.12**	--	--	--
	MW-1	9/30/2004	(orig)	**9.08**	**1.41**	0.03	**9.98**	--	--	--
	MW-1	12/13/2004	(orig)	**8.52**	**1.34**	ND	**9.39**	--	--	--
	MW-1	3/22/2005	(orig)	**4.55**	**0.85**	ND	**5.95**	--	--	--
	MW-1	6/22/2005	(orig)	--	--	0.02188	--	--	--	--
	MW-1	10/24/2005	(orig)	**6.39**	**1.01**	ND	**7.416**	--	--	--
	MW-1	12/13/2005	(orig)	**6.17**	**1.01**	ND	**7.57**	--	--	--
	MW-1	3/22/2006	(orig)	**3.58**	**0.77**	ND	**5.84**	--	--	--
	MW-1	6/22/2006	(orig)	**3.1**	0.5	ND	**3.5**	--	--	--
	MW-1	10/20/2006	(orig)	**6.6**	**1.22**	0.01	**8.91**	--	--	--
	MW-1	12/13/2006	(orig)	**4.23**	**1.09**	0.01	**8.13**	--	--	--
	MW-1	3/27/2007	(orig)	**2.37**	0.504	0.007	**3.749**	--	--	--
	MW-1	6/25/2007	(orig)	**2.87**	0.51	0.14	**3.89**	--	--	--
	MW-1	11/9/2007	(orig)	**5.6**	**0.91**	< 0.0007	**6.8**	--	--	--
	MW-1	1/15/2008	(orig)	**4.2**	**0.89**	< 0.0007	**5.7**	--	--	--
	MW-1	3/19/2008	(orig)	**2.7**	0.59	< 0.005	**4.7**	--	--	--
	MW-1	7/23/2008	(orig)	**2**	0.38	< 0.005	**1.4**	--	--	--
	MW-1	10/21/2008	(orig)	**4.5**	0.63	< 0.005	**5.3**	--	--	--
	MW-1	1/28/2009	(orig)	**4**	**0.88**	< 0.005	**8.7**	--	--	--
	MW-1	9/30/2009	(orig)	**4.2**	0.53	0.0016	**5.1**	11.7	**2.08**	**1.09**
	MW-1	6/10/2010	(orig)	**1.7**	0.33	0.0012	**0.99**	27	0.126	**1.28**
	MW-1	9/27/2010	(orig)	**3.2**	0.53	0.002	**4.2016**	1.8	**7.73**	**1.19**
	MW-1	12/14/2010	(orig)	**3.2**	0.62	0.0012	**5.3016**	1.03	**4.13**	**0.888**
	MW-1	3/17/2011	(orig)	**1.7**	0.48	0.0037	**4.3092**	2.27	**1.11**	**1.07**
	GW-74926-062411-PG-01	6/24/2011	(orig)	**2.1**	0.494	0.0025	**2.03**	18.4	< 0.1	**0.894**
	GW-74926-062411-PG-02	6/24/2011	(Duplicate)	**1.97**	0.458	0.0026	**1.94**	--	--	--
	GW-074926-092911-CM-009	9/29/2011	(orig)	**2.44**	0.519	< 0.005	**3.65**	< 1.0	**25.2**	**1.02**
	GW-074926-121411-CB-MW-1	12/14/2011	(orig)	**2.31**	0.508	0.0055	**3.93**	13.2	**25.4**	**0.945**
	GW-074926-3912-CB-MW-1	3/9/2012	(orig)	**1.59**	0.636	< 0.001	**5.04**	--	**25.3**	**1.03**
	GW-074926-060712-CB-MW-1	6/7/2012	(orig)	**1.77**	0.182	0.127	**0.633**	--	**21.4**	**0.914**
	GW-074926-091912-JP-MW-1	9/19/2012	(orig)	**1.52**	0.414	< 0.020	**2.49**	--	**19.0**	**0.86**
	GW-074926-121312-CM-MW-1	12/13/2012	(orig)	**2.02**	**0.809**	< 0.025	**5.02**	--	**23.8**	**0.75**
	GW-074926-032013-CM-MW-1	3/20/2013	(orig)	**0.182**	0.0406	< 0.002	0.0914	--	**9.39**	**1.08**
	GW-074926-061213-JR-MW1	6/12/2013	(orig)	**0.698**	0.160	< 0.001	**0.873**	--	**12.8**	**1.12**
	GW-074926-091113-CM-MW1	9/11/2013	(orig)	**1.050**	**0.831**	< 0.020	**5.100**	--	**18.0**	**1.050**
	GW-074926-121313-CM-MW-1	12/13/2013	(orig)	**0.591**	0.670	0.0015	**1.790**	--	**25.4**	**0.88**
	GW-074926-031914-CK-MW-1	3/19/2014	(orig)	**0.0822**	0.0393	< 0.001	0.271	--	--	--
	GW-074926-061714-CK-MW-1	6/17/2014	(orig)	**0.522**	0.189	< 0.001	0.398	--	**17.4**	**0.896**
	GW-074926-091814-CB-MW-1	9/18/2014	(orig)	**0.849**	0.299	< 0.001	**1.230**	--	**23.4**	**1.01**
	--	12/18/2014	Well was obstructed and inaccessible due to TRC operations.							
MW-2	MW-2	10/21/2008	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	115	--	--
	MW-2	1/28/2009	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	ND	ND	ND
	MW-2	9/30/2009	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	123	0.0223	< 0.005
	MW-2	6/11/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	156	< 0.02	< 0.005
	MW-2	9/27/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	179	< 0.02	< 0.005
	GW-74926-062411-PG-05	6/24/2011	(orig)	< 0.0010	< 0.0010	< 0.0010	< 0.0030	176	0.191	< 0.015
	GW-074926-092911-CM-006	9/29/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	151	< 0.05	< 0.005
	GW-074926-121411-CB-MW-2	12/14/2011	(orig)	0.00031 J	0.0002 J	< 0.001	0.0022 J	135	0.0133 J	0.0022 J
	GW-074926-3912-CB-MW-2	3/9/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.05	< 0.005
	GW-074926-060712-CB-MW-2	6/7/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	0.0822	0.0052
	GW-074926-091912-JP-MW-2	9/19/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.05	< 0.005
	GW-074926-121312-CM-MW-2	12/13/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	<0.05	< 0.005
	GW-074926-032013-CM-MW-2	3/20/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.05	< 0.005
	GW-074926-061213-JR-MW2	6/12/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	0.0665	< 0.005
	GW-074926-091113-CM-MW2	9/11/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.050	< 0.005
	GW-074926-121313-CM-MW-2	12/13/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.050	< 0.005
	GW-074926-031914-CK-MW-2	3/19/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.050	0.0242
	GW-074926-061714-CK-MW-2	6/17/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.050	< 0.005
	GW-074926-091814-CB-MW-2	9/18/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	0.0656	< 0.005
	GW-074926-121814-CM-MW-2	12/18/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	0.709	0.0055

TABLE 4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
FLORA VISTA NO. 1
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)	Sulfate (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Groundwater Quality Standards				***0.01***	***0.75***	***0.75***	***0.62***	***600***	***1***	***0.2***
MW-3	MW-3	10/21/2008	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	93	--	--
	MW-3	1/28/2009	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	ND	ND	ND
	MW-3	9/30/2009	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	144	0.0543	< 0.005
	MW-3	6/10/2010	(orig)	< 0.0005	< 0.001	< 0.001	< 0.001	122	0.0425	< 0.005
	MW-3	9/27/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	170	< 0.02	< 0.005
	MW-3	12/14/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	142	< 0.02	< 0.005
	MW-3	3/17/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	119	< 0.02	< 0.005
	GW-74926-062411-PG-03	6/24/2011	(orig)	< 0.0010	< 0.0010	< 0.0010	< 0.0030	127	0.189	< 0.015
	GW-074926-092911-CM-007	9/29/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	160	< 0.05	0.0063
	GW-074926-121411-CB-MW-3	12/14/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	136	0.0288 J	0.0207
	GW-074926-3912-CB-MW-3	3/9/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.05	< 0.005
	GW-074926-060712-CB-MW-3	6/7/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.05	< 0.005
	GW-074926-091912-JP-MW-3	9/19/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.05	< 0.005
	GW-074926-121312-CM-MW-3	12/13/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	0.0605	0.026
	GW-074926-032013-CM-MW-3	3/20/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.05	0.0149
	GW-074926-061213-JR-MW3	6/12/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	0.189	0.0094
	GW-074926-091113-CM-MW3	9/11/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.050	< 0.005
	GW-074926-121313-CM-MW-3	12/13/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.050	0.013
	GW-074926-031914-CK-MW-3	3/19/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.050	< 0.005
	GW-074926-061714-CK-MW-3	6/17/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.050	< 0.005
	GW-074926-091814-CB-MW-3	9/18/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	< 0.050	< 0.005
	--	12/18/2014	Well was found to be covered in standing water from recent inclement weather.							
MW-4	MW-4	10/21/2008	(orig)	**0.039**	0.031	< 0.0005	0.18	90.1	--	--
	MW-4	1/28/2009	(orig)	**0.66**	0.064	< 0.0005	0.583	ND	ND	ND
	MW-4	9/30/2009	(orig)	**0.34**	0.054	< 0.0005	0.572	48.9	0.148	**4.48**
	MW-4	6/10/2010	(orig)	**0.14**	0.027	< 0.001	0.252	53.3	0.0566	**4.65**
	MW-4	9/27/2010	(orig)	**0.033**	0.041	< 0.001	0.274	92.5	**1.22**	**4.34**
	MW-4	12/14/2010	(orig)	**0.13**	0.093	< 0.001	**0.899**	67.5	**1.75**	**4.69**
	MW-4	3/17/2011	(orig)	**0.017**	0.018	< 0.001	0.1966	83	0.0852	**4.46**
	GW-74926-062411-PG-04	6/24/2011	(orig)	**0.0296**	0.0371	< 0.0010	0.472	130	**1.5**	**4.9**
	GW-074926-092911-CM-008	9/29/2011	(orig)	**0.0392**	0.0039	< 0.001	0.0536	96.1	**2.55**	**4.1**
	GW-074926-092911-CM-010	9/29/2011	(Duplicate)	**0.043**	0.0035	< 0.001	0.0483	--	--	--
	GW-074926-121411-CB-MW-4	12/14/2011	(orig)	**0.101**	0.0443	< 0.001	0.378	81.2	**2.62**	**4.58**
	GW-074926-121411-CB-DUP	12/14/2011	(Duplicate)	**0.104**	0.0437	< 0.005	0.372	--	--	--
	GW-074926-3912-CB-MW-4	3/9/2012	(orig)	**0.0264**	0.0066	< 0.001	0.0651	--	**2.46**	**4.73**
	GW-074926-3912-CB-DUP	3/9/2012	(Duplicate)	**0.0234**	0.0056	< 0.001	0.058	--	--	--
	GW-074926-060712-CB-MW-4	6/7/2012	(orig)	**0.044**	0.0245	< 0.001	0.303	--	**2.07**	**4.02**
	GW-074926-060712-CB-DUP	6/7/2012	(Duplicate)	**0.026**	0.0124	< 0.001	0.155	--	--	--
	GW-074926-091912-JP-MW-4	9/19/2012	(orig)	0.0029	0.0048	< 0.001	0.0576	--	**1.93**	**4.5**
	GW-074926-091912-JP-DUP	9/19/2012	(Duplicate)	0.0028	0.0045	< 0.001	0.0551	--	--	--
	GW-074926-121312-CM-MW-4	12/13/2012	(orig)	**0.0941**	0.0399	< 0.002	0.385	--	**2.92**	**4.9**
	GW-074926-121312-CM-DUP	12/13/2012	(Duplicate)	**0.197**	0.0712	< 0.001	0.550	--	--	--
	GW-074926-032012-CM-MW-4	3/20/2013	(orig)	0.0035	0.0020	< 0.001	0.0211	--	**1.82**	**4.37**
	GW-074926-032012-CM-DUP	3/20/2013	(Duplicate)	0.0034	0.0022	< 0.001	0.0212	--	--	--
	GW-074926-061213-JR-MW4	6/12/2013	(orig)	**0.0588**	0.0509	< 0.005	0.545	--	**1.53**	**4.29**
	GW-074926-061213-JR-DUP	6/12/2013	(Duplicate)	**0.0215**	0.0213	< 0.001	0.218	--	--	--
	GW-074926-091113-CM-MW4	9/11/2013	(orig)	**0.0166**	0.0231	< 0.001	0.226	--	**3.100**	**4.350**
	GW-074926-091113-CM-DUP	9/11/2013	(Duplicate)	**0.0156**	0.0162	< 0.001	0.158	--	--	--
	GW-074926-121313-CM-MW-4	12/13/2013	(orig)	**0.0362**	0.0199	< 0.001	0.169	--	**2.7**	**4.8**
	GW-074926-121313-CM-DUP	12/13/2013	(Duplicate)	**0.0357**	0.0185	< 0.001	0.160	--	--	--
	GW-074926-031914-CK-MW-4	3/19/2014	(orig)	< 0.001	< 0.001	< 0.001	0.0046	--	**1.33**	**4.19**
	GW-074926-031914-CK-DUP	3/19/2014	(Duplicate)	< 0.001	< 0.001	< 0.001	0.0049	--	--	--
	GW-074926-061714-CK-MW-4	6/17/2014	(orig)	0.0069	< 0.001	< 0.001	< 0.003	--	**2.68**	**4.01**
	GW-074926-061714-CK-DUP	6/17/2014	(Duplicate)	0.0063	< 0.001	< 0.001	< 0.003	--	--	--
	GW-074926-091814-CB-MW-4	9/18/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	**3.43**	**4.63**
	GW-074926-091814-CB-DUP	9/18/2014	(Duplicate)	0.0018	< 0.001	< 0.001	< 0.003	--	--	--
	GW-074926-121814-CM-MW-4	12/18/2014	(orig)	**0.0398**	0.0062	< 0.001	0.0486	--	**4.020**	**4.460**
	GW-074926-121814-CM-DUP	12/18/2014	(Duplicate)	**0.0296**	0.0048	< 0.001	0.0354	--	--	--
DW-1	DW-1	12/16/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--
	RS-74926-062411-CB-01	6/24/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--
	GW-074926-072712-JK-DW-17	7/27/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--
	DW-074926-061213-JR-32	6/12/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--
	--	12/18/2014	Attempt to contact landowner regarding well sampling. No response.							
DW-2	#34	6/10/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--
	Domestic #34	3/17/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--
	GW-074926-061712-CB-DW34	6/7/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--
	DW-074926-061213-JR-34	6/12/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--
	--	12/18/2014	Attempt to sample well but landowner had shut well in for the winter months.							

Notes:

1. MW = monitoring well
2. NMWQCC = New Mexico Water Quality Control Commission
3. Constituents in **BOLD** are in excess of NMWQCC groundwater quality standards
4. mg/L = milligrams per liter (parts per million)
5. < 1.0 = Below laboratory detection limit of 1.0 mg/L
6. ND = not detected
7. -- = not analyzed

Appendix A

Groundwater Laboratory Analytical Reports

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

April 03, 2014

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

RE: Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

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

Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

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

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SAMPLE SUMMARY

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60165433001	**GW-074926-031914-CK-MW-1**	Water	03/19/14 17:40	03/21/14 08:30
60165433002	**GW-074926-031914-CK-MW-2**	Water	03/19/14 17:35	03/21/14 08:30
60165433003	**GW-074926-031914-CK-MW-3**	Water	03/19/14 17:25	03/21/14 08:30
60165433004	**GW-074926-031914-CK-MW-4**	Water	03/19/14 17:10	03/21/14 08:30
60165433005	**GW-074926-031914-CK-DUP**	Water	03/19/14 08:00	03/21/14 08:30
60165433006	**TB-074926-031914-CK-1**	Water	03/19/14 08:00	03/21/14 08:30

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SAMPLE ANALYTE COUNT

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60165433001	**GW-074926-031914-CK-MW-1**	EPA 5030B/8260	JTS	8
60165433002	**GW-074926-031914-CK-MW-2**	EPA 6010	JGP	2
		EPA 5030B/8260	JTS	8
60165433003	**GW-074926-031914-CK-MW-3**	EPA 6010	JGP	2
		EPA 5030B/8260	JTS	8
60165433004	**GW-074926-031914-CK-MW-4**	EPA 6010	JGP	2
		EPA 5030B/8260	JTS	8
60165433005	**GW-074926-031914-CK-DUP**	EPA 5030B/8260	JTS	8
60165433006	**TB-074926-031914-CK-1**	EPA 5030B/8260	JTS	8

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PROJECT NARRATIVE

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: April 03, 2014

General Information:
3 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:

Pace Analytical Services, Inc.
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(913)599-5665

PROJECT NARRATIVE

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: April 03, 2014

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

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

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

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

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

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

Method Blank:
All analytes were below the report limit in the method blank, 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/60338

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

QC Batch: MSV/60433

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

Sample: GW-074926-031914-CK-MW-1 **Lab ID: 60165433001** Collected: 03/19/14 17:40 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	**82.2**	ug/L	1.0	1		03/31/14 12:19	71-43-2	
Ethylbenzene	**39.3**	ug/L	1.0	1		03/31/14 12:19	100-41-4	
Toluene	ND	ug/L	1.0	1		03/31/14 12:19	108-88-3	
Xylene (Total)	**271**	ug/L	3.0	1		03/31/14 12:19	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		03/31/14 12:19	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120	1		03/31/14 12:19	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		03/31/14 12:19	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/31/14 12:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(913)599-5665

ANALYTICAL RESULTS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

Sample: GW-074926-031914-CK-MW-2 **Lab ID: 60165433002** Collected: 03/19/14 17:35 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							
Iron, Dissolved	ND	ug/L	50.0	1	03/28/14 11:00	04/01/14 17:12	7439-89-6	
Manganese, Dissolved	**24.2**	ug/L	5.0	1	03/28/14 11:00	04/01/14 17:12	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		03/26/14 23:50	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/26/14 23:50	100-41-4	
Toluene	ND	ug/L	1.0	1		03/26/14 23:50	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/26/14 23:50	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	1		03/26/14 23:50	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		03/26/14 23:50	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		03/26/14 23:50	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/26/14 23:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

Sample: GW-074926-031914-CK-MW-3 **Lab ID: 60165433003** Collected: 03/19/14 17:25 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							
Iron, Dissolved	ND	ug/L	50.0	1	03/28/14 11:00	04/01/14 17:15	7439-89-6	
Manganese, Dissolved	ND	ug/L	5.0	1	03/28/14 11:00	04/01/14 17:15	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		03/27/14 00:06	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/27/14 00:06	100-41-4	
Toluene	ND	ug/L	1.0	1		03/27/14 00:06	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/27/14 00:06	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		03/27/14 00:06	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		03/27/14 00:06	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		03/27/14 00:06	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/27/14 00:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

Sample: GW-074926-031914-CK-MW-4 **Lab ID: 60165433004** Collected: 03/19/14 17:10 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							
Iron, Dissolved	**1330**	ug/L	250	5	03/28/14 11:00	04/02/14 15:17	7439-89-6	
Manganese, Dissolved	**4190**	ug/L	25.0	5	03/28/14 11:00	04/01/14 16:55	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		03/27/14 00:22	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/27/14 00:22	100-41-4	
Toluene	ND	ug/L	1.0	1		03/27/14 00:22	108-88-3	
Xylene (Total)	**4.6**	ug/L	3.0	1		03/27/14 00:22	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		03/27/14 00:22	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		03/27/14 00:22	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		03/27/14 00:22	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/27/14 00:22		

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

ANALYTICAL RESULTS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

Sample: GW-074926-031914-CK-DUP **Lab ID: 60165433005** 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 12:35	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/31/14 12:35	100-41-4	
Toluene	ND	ug/L	1.0	1		03/31/14 12:35	108-88-3	
Xylene (Total)	**4.9**	ug/L	3.0	1		03/31/14 12:35	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%	80-120	1		03/31/14 12:35	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-120	1		03/31/14 12:35	17060-07-0	
Toluene-d8 (S)	106	%	80-120	1		03/31/14 12:35	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/31/14 12:35		

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

ANALYTICAL RESULTS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

Sample: TB-074926-031914-CK-1 **Lab ID: 60165433006** 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		03/27/14 00:55	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/27/14 00:55	100-41-4	
Toluene	ND	ug/L	1.0	1		03/27/14 00:55	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/27/14 00:55	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	80-120	1		03/27/14 00:55	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		03/27/14 00:55	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		03/27/14 00:55	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/27/14 00:55		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

QC Batch: MPRP/26638 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60165433002, 60165433003, 60165433004

METHOD BLANK: 1351484 Matrix: Water
Associated Lab Samples: 60165433002, 60165433003, 60165433004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
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
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
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	

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QUALITY CONTROL DATA

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

QC Batch: MSV/60338 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60165433002, 60165433003, 60165433004, 60165433006

METHOD BLANK: 1350438 Matrix: Water
Associated Lab Samples: 60165433002, 60165433003, 60165433004, 60165433006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/26/14 20:35	
Ethylbenzene	ug/L	ND	1.0	03/26/14 20:35	
Toluene	ug/L	ND	1.0	03/26/14 20:35	
Xylene (Total)	ug/L	ND	3.0	03/26/14 20:35	
1,2-Dichloroethane-d4 (S)	%	100	80-120	03/26/14 20:35	
4-Bromofluorobenzene (S)	%	97	80-120	03/26/14 20:35	
Toluene-d8 (S)	%	97	80-120	03/26/14 20:35	

LABORATORY CONTROL SAMPLE: 1350439

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.6	103	80-120	
Ethylbenzene	ug/L	20	21.3	106	80-121	
Toluene	ug/L	20	20.5	102	80-122	
Xylene (Total)	ug/L	60	63.8	106	80-121	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

QC Batch: MSV/60433
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60165433001, 60165433005

METHOD BLANK: 1352732
Matrix: Water
Associated Lab Samples: 60165433001, 60165433005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/31/14 09:31	
Ethylbenzene	ug/L	ND	1.0	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
Benzene	ug/L	20	18.5	92	80-120	
Ethylbenzene	ug/L	20	21.1	105	80-121	
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	

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QUALIFIERS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

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: MSV/60338

[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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60165433

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60165433002	**GW-074926-031914-CK-MW-2**	EPA 3010	MPRP/26638	EPA 6010	ICP/20257
60165433003	**GW-074926-031914-CK-MW-3**	EPA 3010	MPRP/26638	EPA 6010	ICP/20257
60165433004	**GW-074926-031914-CK-MW-4**	EPA 3010	MPRP/26638	EPA 6010	ICP/20257
60165433001	**GW-074926-031914-CK-MW-1**	EPA 5030B/8260	MSV/60433		
60165433002	**GW-074926-031914-CK-MW-2**	EPA 5030B/8260	MSV/60338		
60165433003	**GW-074926-031914-CK-MW-3**	EPA 5030B/8260	MSV/60338		
60165433004	**GW-074926-031914-CK-MW-4**	EPA 5030B/8260	MSV/60338		
60165433005	**GW-074926-031914-CK-DUP**	EPA 5030B/8260	MSV/60433		
60165433006	**TB-074926-031914-CK-1**	EPA 5030B/8260	MSV/60338		

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Sample Condition Upon Receipt
ESI Tech Spec Client

WO# : 60165433

60165433

Client Name: COP CRA_NM

Optional
Proj Due Date:
Proj Name:

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

Tracking #: 5689 1281 4603 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 ☑ ZPLS

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.0

Temperature should be above freezing to 6°C

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

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AMT Date: 3/24/14

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

Start: 1510	Start:
End: 1520	End:
Temp:	Temp:

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	COP CRA NM	Report To:	Christine Mathews	Attention:	ePayables
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Jeff Walker, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:	4517664592	Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	Flora Vista No. 1	Pace Project Manager:	Alice Flanagan
Requested Due Date/TAT:	standard	Project Number:	074926	Pace Profile #:	5514, 22

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260 BTEX	6010 Dissolved Fe & Mn	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-074926-031914-CK-MW-1	WT	G			3/19/14	1740		3				3					X			60165433 3D69H 01
2	GW-074926-031914-CK-MW-2	WT	G			3/19/14	1735		4			1	3					X	X		02
3	GW-074926-031914-CK-MW-3	WT	G			3/19/14	1725		4			1	3					X	X		03
4	GW-074926-031914-CK-MW-4	WT	G			3/19/14	1710		4			1	3					X	X		04
5	GW-074926-031914-CK-DUP	WT	G			3/19/14	"		3				3					X			05
6	TB-074926-031914-CK-1	WT	G			"	"		3				3					X			06
7																					
8																					
9																					
10																					
11																					
12																					

IBP3F LS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	CRA	3/20/14	1030	Kenell Oka PASI ICS	3/21/14	0830	3.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CALE KANACK

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/20/14

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

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

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July 02, 2014

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

RE: Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on June 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
Jeff Walker, COP Conestoga-Rovers & Associa

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

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

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SAMPLE SUMMARY

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171759001	**GW-074926-061714-CK-MW-1**	Water	06/17/14 09:45	06/18/14 08:20
60171759002	**GW-074926-061714-CK-MW-2**	Water	06/17/14 09:35	06/18/14 08:20
60171759003	**GW-074926-061714-CK-MW-3**	Water	06/17/14 10:15	06/18/14 08:20
60171759004	**GW-074926-061714-CK-MW-4**	Water	06/17/14 10:05	06/18/14 08:20
60171759005	**GW-074926-061714-CK-DUP**	Water	06/17/14 00:00	06/18/14 08:20
60171759006	**TRIP BLANK**	Water	06/17/14 11:00	06/18/14 08:20

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SAMPLE ANALYTE COUNT

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171759001	**GW-074926-061714-CK-MW-1**	EPA 6010	JGP	2
		EPA 5030B/8260	PRG	8
60171759002	**GW-074926-061714-CK-MW-2**	EPA 6010	JGP	2
		EPA 5030B/8260	PRG	8
60171759003	**GW-074926-061714-CK-MW-3**	EPA 6010	JGP	2
		EPA 5030B/8260	PRG	8
60171759004	**GW-074926-061714-CK-MW-4**	EPA 6010	JGP	2
		EPA 5030B/8260	PRG	8
60171759005	**GW-074926-061714-CK-DUP**	EPA 5030B/8260	PRG	8
60171759006	**TRIP BLANK**	EPA 5030B/8260	PRG	8

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PROJECT NARRATIVE

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 02, 2014

General Information:
4 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:

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PROJECT NARRATIVE

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 02, 2014

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

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

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

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

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

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

Method Blank:
All analytes were below the report limit in the method blank, 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/62442

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

QC Batch: MSV/62490

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

Sample: GW-074926-061714-CK-MW-1 **Lab ID: 60171759001** Collected: 06/17/14 09:45 Received: 06/18/14 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron, Dissolved	**17400**	ug/L	50.0	1	06/19/14 18:40	06/20/14 11:10	7439-89-6	
Manganese, Dissolved	**896**	ug/L	5.0	1	06/19/14 18:40	06/20/14 11:10	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**522**	ug/L	5.0	5		06/24/14 06:56	71-43-2	
Ethylbenzene	**189**	ug/L	1.0	1		06/21/14 07:29	100-41-4	
Toluene	ND	ug/L	1.0	1		06/21/14 07:29	108-88-3	
Xylene (Total)	**398**	ug/L	3.0	1		06/21/14 07:29	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	1		06/21/14 07:29	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120	1		06/21/14 07:29	17060-07-0	
Toluene-d8 (S)	105	%	80-120	1		06/21/14 07:29	2037-26-5	
Preservation pH	**1.0**		0.10	1		06/21/14 07:29		

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

Sample: GW-074926-061714-CK-MW-2 **Lab ID: 60171759002** Collected: 06/17/14 09:35 Received: 06/18/14 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron, Dissolved	ND	ug/L	50.0	1	06/19/14 18:40	06/20/14 11:14	7439-89-6	
Manganese, Dissolved	ND	ug/L	5.0	1	06/19/14 18:40	06/20/14 11:14	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		06/24/14 06:41	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/24/14 06:41	100-41-4	
Toluene	ND	ug/L	1.0	1		06/24/14 06:41	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/24/14 06:41	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		06/24/14 06:41	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		06/24/14 06:41	17060-07-0	
Toluene-d8 (S)	98	%	80-120	1		06/24/14 06:41	2037-26-5	
Preservation pH	**1.0**		0.10	1		06/24/14 06:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

Sample: GW-074926-061714-CK-MW-3 **Lab ID: 60171759003** Collected: 06/17/14 10:15 Received: 06/18/14 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron, Dissolved	ND	ug/L	50.0	1	06/19/14 18:40	06/20/14 11:17	7439-89-6	
Manganese, Dissolved	ND	ug/L	5.0	1	06/19/14 18:40	06/20/14 11:17	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		06/24/14 13:48	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/24/14 13:48	100-41-4	
Toluene	ND	ug/L	1.0	1		06/24/14 13:48	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/24/14 13:48	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		06/24/14 13:48	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	80-120	1		06/24/14 13:48	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		06/24/14 13:48	2037-26-5	
Preservation pH	**1.0**		0.10	1		06/24/14 13:48		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

Sample: GW-074926-061714-CK-MW-4 **Lab ID: 60171759004** Collected: 06/17/14 10:05 Received: 06/18/14 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron, Dissolved	**2680**	ug/L	50.0	1	06/19/14 18:40	06/20/14 11:20	7439-89-6	
Manganese, Dissolved	**4010**	ug/L	5.0	1	06/19/14 18:40	06/20/14 11:20	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**6.9**	ug/L	1.0	1		06/24/14 14:02	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/24/14 14:02	100-41-4	
Toluene	ND	ug/L	1.0	1		06/24/14 14:02	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/24/14 14:02	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	1		06/24/14 14:02	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	80-120	1		06/24/14 14:02	17060-07-0	
Toluene-d8 (S)	101	%	80-120	1		06/24/14 14:02	2037-26-5	
Preservation pH	**1.0**		0.10	1		06/24/14 14:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

Sample: GW-074926-061714-CK-DUP **Lab ID: 60171759005** Collected: 06/17/14 00:00 Received: 06/18/14 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**6.3**	ug/L	1.0	1		06/24/14 14:17	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/24/14 14:17	100-41-4	
Toluene	ND	ug/L	1.0	1		06/24/14 14:17	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/24/14 14:17	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	107	%	80-120	1		06/24/14 14:17	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		06/24/14 14:17	17060-07-0	
Toluene-d8 (S)	102	%	80-120	1		06/24/14 14:17	2037-26-5	
Preservation pH	**1.0**		0.10	1		06/24/14 14:17		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

Sample: TRIP BLANK **Lab ID: 60171759006** Collected: 06/17/14 11:00 Received: 06/18/14 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		06/24/14 10:28	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/24/14 10:28	100-41-4	
Toluene	ND	ug/L	1.0	1		06/24/14 10:28	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/24/14 10:28	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	1		06/24/14 10:28	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		06/24/14 10:28	17060-07-0	
Toluene-d8 (S)	96	%	80-120	1		06/24/14 10:28	2037-26-5	
Preservation pH	**1.0**		0.10	1		06/24/14 10:28		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

QC Batch: MPRP/27707 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60171759001, 60171759002, 60171759003, 60171759004

METHOD BLANK: 1397030 Matrix: Water
Associated Lab Samples: 60171759001, 60171759002, 60171759003, 60171759004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	50.0	06/20/14 10:08	
Manganese, Dissolved	ug/L	ND	5.0	06/20/14 10:08	

LABORATORY CONTROL SAMPLE: 1397031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10300	103	80-120	
Manganese, Dissolved	ug/L	1000	946	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1397032 1397033

Parameter	Units	60171658001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	ND	10000	10000	9970	9970	99	99	75-125	0	20	
Manganese, Dissolved	ug/L	1.2 mg/L	1000	1000	2070	2080	92	92	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

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QUALITY CONTROL DATA

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

QC Batch: MSV/62442
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60171759001

METHOD BLANK: 1397700 Matrix: Water
Associated Lab Samples: 60171759001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	1.0	06/21/14 02:59	
Toluene	ug/L	ND	1.0	06/21/14 02:59	
Xylene (Total)	ug/L	ND	3.0	06/21/14 02:59	
1,2-Dichloroethane-d4 (S)	%	98	80-120	06/21/14 02:59	
4-Bromofluorobenzene (S)	%	101	80-120	06/21/14 02:59	
Toluene-d8 (S)	%	96	80-120	06/21/14 02:59	

LABORATORY CONTROL SAMPLE: 1397701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	20	20.1	101	80-121	
Toluene	ug/L	20	19.5	98	80-122	
Xylene (Total)	ug/L	60	61.9	103	80-121	
1,2-Dichloroethane-d4 (S)	%			93	80-120	
4-Bromofluorobenzene (S)	%			97	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

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QUALITY CONTROL DATA

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

QC Batch: MSV/62490 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60171759001, 60171759002

METHOD BLANK: 1399395 Matrix: Water
Associated Lab Samples: 60171759001, 60171759002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	06/24/14 02:39	
Ethylbenzene	ug/L	ND	1.0	06/24/14 02:39	
Toluene	ug/L	ND	1.0	06/24/14 02:39	
Xylene (Total)	ug/L	ND	3.0	06/24/14 02:39	
1,2-Dichloroethane-d4 (S)	%	93	80-120	06/24/14 02:39	
4-Bromofluorobenzene (S)	%	96	80-120	06/24/14 02:39	
Toluene-d8 (S)	%	98	80-120	06/24/14 02:39	

LABORATORY CONTROL SAMPLE: 1399396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.1	100	80-120	
Ethylbenzene	ug/L	20	19.4	97	80-121	
Toluene	ug/L	20	18.9	95	80-122	
Xylene (Total)	ug/L	60	60.5	101	80-121	
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			94	80-120	
Toluene-d8 (S)	%			96	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

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QUALITY CONTROL DATA

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

QC Batch: MSV/62511 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60171759003, 60171759004, 60171759005, 60171759006

METHOD BLANK: 1399851 Matrix: Water
Associated Lab Samples: 60171759003, 60171759004, 60171759005, 60171759006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	06/24/14 09:30	
Ethylbenzene	ug/L	ND	1.0	06/24/14 09:30	
Toluene	ug/L	ND	1.0	06/24/14 09:30	
Xylene (Total)	ug/L	ND	3.0	06/24/14 09:30	
1,2-Dichloroethane-d4 (S)	%	92	80-120	06/24/14 09:30	
4-Bromofluorobenzene (S)	%	95	80-120	06/24/14 09:30	
Toluene-d8 (S)	%	100	80-120	06/24/14 09:30	

LABORATORY CONTROL SAMPLE: 1399852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.8	104	80-120	
Ethylbenzene	ug/L	20	20.8	104	80-121	
Toluene	ug/L	20	19.9	99	80-122	
Xylene (Total)	ug/L	60	63.3	106	80-121	
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			95	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1399169 1399170

Parameter	Units	60171956003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	20.9	21.3	105	107	37-157	2	32	
Ethylbenzene	ug/L	ND	20	20	21.7	21.9	108	110	31-160	1	32	
Toluene	ug/L	ND	20	20	21.2	21.3	106	106	35-157	0	37	
Xylene (Total)	ug/L	ND	60	60	66.4	66.2	111	110	34-156	0	37	
1,2-Dichloroethane-d4 (S)	%						99	96	80-120			
4-Bromofluorobenzene (S)	%						96	95	80-120			
Toluene-d8 (S)	%						102	97	80-120			
Preservation pH		1.0			1.0	1.0				0		

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

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QUALIFIERS

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

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/62442

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

Batch: MSV/62490

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 074926 Flora Vista No.1
Pace Project No.: 60171759

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171759001	**GW-074926-061714-CK-MW-1**	EPA 3010	MPRP/27707	EPA 6010	ICP/20946
60171759002	**GW-074926-061714-CK-MW-2**	EPA 3010	MPRP/27707	EPA 6010	ICP/20946
60171759003	**GW-074926-061714-CK-MW-3**	EPA 3010	MPRP/27707	EPA 6010	ICP/20946
60171759004	**GW-074926-061714-CK-MW-4**	EPA 3010	MPRP/27707	EPA 6010	ICP/20946
60171759001	**GW-074926-061714-CK-MW-1**	EPA 5030B/8260	MSV/62442		
60171759001	**GW-074926-061714-CK-MW-1**	EPA 5030B/8260	MSV/62490		
60171759002	**GW-074926-061714-CK-MW-2**	EPA 5030B/8260	MSV/62490		
60171759003	**GW-074926-061714-CK-MW-3**	EPA 5030B/8260	MSV/62511		
60171759004	**GW-074926-061714-CK-MW-4**	EPA 5030B/8260	MSV/62511		
60171759005	**GW-074926-061714-CK-DUP**	EPA 5030B/8260	MSV/62511		
60171759006	**TRIP BLANK**	EPA 5030B/8260	MSV/62511		

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Sample Condition Upon Receipt

WO#: 60171759

60171759

Optional
Proj Due Date:
Proj Name:

Client Name: COP CRA NM

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

Tracking #: 6689 1285 1365 Pace Shipping Label Used? Yes ☐ No ☑

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

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

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.0

Temperature should be above freezing to 6°C

Date and initials of person examining contents: AH 6/11/14

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☑No pH<2	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 0514-38FD		15.
Headspace in VOA vials (>6mm):	☑Yes ☐No ☐N/A	1of3 TB headspace
		16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: ADK Date: 6/11/14

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A
Required Client Information:

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

Section B
Required Project Information:

Report To:	Christine Mathews
Copy To:	Jeff Walker, Angela Bown
Purchase Order No.:	4517664592
Project Name:	Flora Vista No. 1
Project Number:	074926

Section C
Invoice Information:

Attention:	ePayables
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	5514, 22

REGULATORY AGENCY

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

Site Location STATE: NM

Section D
Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX	6010 Dissolved Fe & Mn										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60171759
1	GW-074926-061714-CK-MW-1	WT	G	—	—	6/17/14	0945		4			X	X						X	X											3(XG4H) 1(BP3N) 2.0 — 001
2	GW-074926-061714-CK-MW-2	WT	G	—	—	6/17/14	0935		4			X	X						X	X											1.5 — 002
3	GW-074926-061714-CK-MW-3	WT	G	—	—	6/17/14	1015		4			X	X						X	X											1.5 — 003
4	GW-074926-061714-CK-MW-4	WT	G	—	—	6/17/14	1005		4			X	X						X	X											2.0 — 004
5	GW-074926-061714-CK-dup	WT	G	—	—	6/17/14	—		3				X						X												005
6	trip blank	WT				6/17/14	1100		3				X						X												006
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Metals were Field-Filtered.	Cassie Brown / CRA	6/17/14	1100	Ana Hameed / PASI	6/18	8:20	3.0	Y	Y	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown

DATE Signed (MM/DD/YY): 6/17/14

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

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

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Sample Condition Upon Receipt
ESI Tech Spec Client

WO# : 60171758

60171758

Client Name: COP CRA NM

Optional
Proj Due Date:
Proj Name:

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

Tracking #: 5689 1205 1446 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: 4.2

Date and initials of person examining contents: JMD 6/18/14 1125

Temperature should be above freezing to 6°C

Chain of Custody present:	☒Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☒Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: water		13.
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed: MA / Lot # of added preservative:
Trip Blank present:	☒Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 05914-3		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 6/19/14

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

Start: 1115	Start:
End: 1125	End:
Temp:	Temp:

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Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	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:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone: (505)884-0672	Fax: (505)884-4932	Project Name:	Charles et al No.1	Pace Project Manager:	Alice Flanagan
Requested Due Date/TAT:	standard	Project Number:	074935	Pace Profile #:	5514, 25

Page: of

REGULATORY AGENCY

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

Site Location STATE: NM

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: 8260 BTEX	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-074935-061614-CK-MW-1	WT	G			6/16/14	1110		3				X					X		3(D6914) 001
2	GW-074935-061614-CK-MW-2	WT	G			6/16/14	1115		3				X					X		002
3	GW-074935-061614-CK-MW-3	WT	G			6/16/14	1055		3				X					X		003
4	GW-074935-061614-CK-MW-4	WT	G			6/16/14	1100		3				X					X		004
5	GW-074935-061614-CK-dup	WT	G			6/16/14			3				X					X		↓ 005
6	TRIP BLANK																			3(D6914) 006
7																				
8																				
9																				
10																				
11																				
12																				

Requested Analysis Filtered (Y/N)

G0171758

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[illegible] / CPA	6/17/14	0800	[illegible] Pace	6/18/14	820	4.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

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

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

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October 03, 2014

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

RE: Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 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 Fetters, COP Conestoga-Rovers & Associa
Jeff Walker, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

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

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SAMPLE SUMMARY

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60178509001	**GW-074926-091814-MW-1**	Water	09/18/14 10:30	09/20/14 08:15
60178509002	**GW-074926-091814-MW-2**	Water	09/18/14 09:40	09/20/14 08:15
60178509003	**GW-074926-091814-MW-3**	Water	09/18/14 09:40	09/20/14 08:15
60178509004	**GW-074926-091814-MW-4**	Water	09/18/14 10:20	09/20/14 08:15
60178509005	**GW-074926-091814-DUP**	Water	09/18/14 08:00	09/20/14 08:15
60178509006	**TRIP BLANK**	Water	09/18/14 15:00	09/20/14 08:15

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SAMPLE ANALYTE COUNT

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60178509001	**GW-074926-091814-MW-1**	EPA 6010	TDS	2
		EPA 5030B/8260	PRG	8
60178509002	**GW-074926-091814-MW-2**	EPA 6010	TDS	2
		EPA 5030B/8260	PRG	8
60178509003	**GW-074926-091814-MW-3**	EPA 6010	TDS	2
		EPA 5030B/8260	PRG	8
60178509004	**GW-074926-091814-MW-4**	EPA 6010	TDS	2
		EPA 5030B/8260	PRG	8
60178509005	**GW-074926-091814-DUP**	EPA 5030B/8260	PRG	8
60178509006	**TRIP BLANK**	EPA 5030B/8260	PRG	8

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PROJECT NARRATIVE

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: CRA Conoco New Mexico
Date: October 03, 2014

General Information:
4 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:

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PROJECT NARRATIVE

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: CRA Conoco New Mexico
Date: October 03, 2014

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

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

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

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

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

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

Method Blank:
All analytes were below the report limit in the method blank, 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/64586

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

Sample: GW-074926-091814-MW-1 **Lab ID: 60178509001** Collected: 09/18/14 10:30 Received: 09/20/14 08:15 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							
Iron, Dissolved	**23400**	ug/L	250	5	09/26/14 17:15	10/02/14 12:08	7439-89-6	
Manganese, Dissolved	**1010**	ug/L	25.0	5	09/26/14 17:15	10/02/14 12:08	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**849**	ug/L	10.0	10		09/25/14 17:23	71-43-2	
Ethylbenzene	**299**	ug/L	10.0	10		09/25/14 17:23	100-41-4	
Toluene	ND	ug/L	1.0	1		09/24/14 05:37	108-88-3	
Xylene (Total)	**1230**	ug/L	30.0	10		09/25/14 17:23	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	112	%	80-120	1		09/24/14 05:37	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		09/24/14 05:37	17060-07-0	
Toluene-d8 (S)	97	%	80-120	1		09/24/14 05:37	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/24/14 05:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

Sample: GW-074926-091814-MW-2 **Lab ID: 60178509002** Collected: 09/18/14 09:40 Received: 09/20/14 08:15 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							
Iron, Dissolved	**65.6**	ug/L	50.0	1	09/26/14 17:15	10/02/14 12:40	7439-89-6	
Manganese, Dissolved	ND	ug/L	5.0	1	09/26/14 17:15	10/02/14 12:40	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		09/24/14 04:40	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/24/14 04:40	100-41-4	
Toluene	ND	ug/L	1.0	1		09/24/14 04:40	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/24/14 04:40	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1		09/24/14 04:40	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120	1		09/24/14 04:40	17060-07-0	
Toluene-d8 (S)	95	%	80-120	1		09/24/14 04:40	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/24/14 04:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

Sample: GW-074926-091814-MW-3 **Lab ID: 60178509003** Collected: 09/18/14 09:40 Received: 09/20/14 08:15 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							
Iron, Dissolved	ND	ug/L	50.0	1	09/26/14 17:15	10/02/14 12:42	7439-89-6	
Manganese, Dissolved	ND	ug/L	5.0	1	09/26/14 17:15	10/02/14 12:42	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		09/24/14 04:55	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/24/14 04:55	100-41-4	
Toluene	ND	ug/L	1.0	1		09/24/14 04:55	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/24/14 04:55	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1		09/24/14 04:55	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		09/24/14 04:55	17060-07-0	
Toluene-d8 (S)	95	%	80-120	1		09/24/14 04:55	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/24/14 04:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

Sample: GW-074926-091814-MW-4 **Lab ID: 60178509004** Collected: 09/18/14 10:20 Received: 09/20/14 08:15 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							
Iron, Dissolved	**3430**	ug/L	250	5	09/26/14 17:15	10/02/14 12:15	7439-89-6	
Manganese, Dissolved	**4630**	ug/L	25.0	5	09/26/14 17:15	10/02/14 12:15	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		09/24/14 05:09	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/24/14 05:09	100-41-4	
Toluene	ND	ug/L	1.0	1		09/24/14 05:09	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/24/14 05:09	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	1		09/24/14 05:09	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		09/24/14 05:09	17060-07-0	
Toluene-d8 (S)	94	%	80-120	1		09/24/14 05:09	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/24/14 05:09		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

Sample: GW-074926-091814-DUP **Lab ID: 60178509005** Collected: 09/18/14 08:00 Received: 09/20/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**1.8**	ug/L	1.0	1		09/24/14 05:23	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/24/14 05:23	100-41-4	
Toluene	ND	ug/L	1.0	1		09/24/14 05:23	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/24/14 05:23	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	106	%	80-120	1		09/24/14 05:23	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120	1		09/24/14 05:23	17060-07-0	
Toluene-d8 (S)	93	%	80-120	1		09/24/14 05:23	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/24/14 05:23		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

Sample: TRIP BLANK **Lab ID: 60178509006** Collected: 09/18/14 15:00 Received: 09/20/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		09/24/14 03:01	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/24/14 03:01	100-41-4	
Toluene	ND	ug/L	1.0	1		09/24/14 03:01	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/24/14 03:01	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		09/24/14 03:01	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		09/24/14 03:01	17060-07-0	
Toluene-d8 (S)	93	%	80-120	1		09/24/14 03:01	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/24/14 03:01		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

QC Batch: MPRP/29080 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60178509001, 60178509002, 60178509003, 60178509004

METHOD BLANK: 1449940 Matrix: Water
Associated Lab Samples: 60178509001, 60178509002, 60178509003, 60178509004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	50.0	10/02/14 11:34	
Manganese, Dissolved	ug/L	ND	5.0	10/02/14 11:34	

LABORATORY CONTROL SAMPLE: 1449941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	9900	99	80-120	
Manganese, Dissolved	ug/L	1000	960	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1449942 1449943

Parameter	Units	60178510001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	216	10000	10000	9740	10300	95	101	75-125	5	20	
Manganese, Dissolved	ug/L	18.8	1000	1000	966	989	95	97	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

QC Batch: MSV/64586 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60178509001, 60178509002, 60178509003, 60178509004, 60178509005, 60178509006

METHOD BLANK: 1447818 Matrix: Water
Associated Lab Samples: 60178509001, 60178509002, 60178509003, 60178509004, 60178509005, 60178509006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	09/24/14 02:33	
Ethylbenzene	ug/L	ND	1.0	09/24/14 02:33	
Toluene	ug/L	ND	1.0	09/24/14 02:33	
Xylene (Total)	ug/L	ND	3.0	09/24/14 02:33	
1,2-Dichloroethane-d4 (S)	%	107	80-120	09/24/14 02:33	
4-Bromofluorobenzene (S)	%	102	80-120	09/24/14 02:33	
Toluene-d8 (S)	%	93	80-120	09/24/14 02:33	

LABORATORY CONTROL SAMPLE: 1447819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.3	106	80-120	
Ethylbenzene	ug/L	20	19.6	98	80-121	
Toluene	ug/L	20	20.2	101	80-122	
Xylene (Total)	ug/L	60	61.7	103	80-121	
1,2-Dichloroethane-d4 (S)	%			106	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Toluene-d8 (S)	%			94	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

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QUALITY CONTROL DATA

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

QC Batch: MSV/64640
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60178509001

METHOD BLANK: 1448937 Matrix: Water
Associated Lab Samples: 60178509001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	09/25/14 16:19	
Ethylbenzene	ug/L	ND	1.0	09/25/14 16:19	
Xylene (Total)	ug/L	ND	3.0	09/25/14 16:19	
1,2-Dichloroethane-d4 (S)	%	99	80-120	09/25/14 16:19	
4-Bromofluorobenzene (S)	%	99	80-120	09/25/14 16:19	
Toluene-d8 (S)	%	100	80-120	09/25/14 16:19	

LABORATORY CONTROL SAMPLE: 1448938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.4	97	80-120	
Ethylbenzene	ug/L	20	21.0	105	80-121	
Xylene (Total)	ug/L	60	63.3	106	80-121	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1448939 1448940

Parameter	Units	60178755003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	19.4	19.1	95	94	37-157	2	32	
Ethylbenzene	ug/L	ND	20	20	20.2	20.0	99	98	31-160	1	32	
Xylene (Total)	ug/L	ND	60	60	61.6	61.0	103	102	34-156	1	37	
1,2-Dichloroethane-d4 (S)	%						100	98	80-120			
4-Bromofluorobenzene (S)	%						103	102	80-120			
Toluene-d8 (S)	%						99	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

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QUALIFIERS

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

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/64586

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 074926 FLORA VISTA NO 1
Pace Project No.: 60178509

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60178509001	**GW-074926-091814-MW-1**	EPA 3010	MPRP/29080	EPA 6010	ICP/21882
60178509002	**GW-074926-091814-MW-2**	EPA 3010	MPRP/29080	EPA 6010	ICP/21882
60178509003	**GW-074926-091814-MW-3**	EPA 3010	MPRP/29080	EPA 6010	ICP/21882
60178509004	**GW-074926-091814-MW-4**	EPA 3010	MPRP/29080	EPA 6010	ICP/21882
60178509001	**GW-074926-091814-MW-1**	EPA 5030B/8260	MSV/64586		
60178509001	**GW-074926-091814-MW-1**	EPA 5030B/8260	MSV/64640		
60178509002	**GW-074926-091814-MW-2**	EPA 5030B/8260	MSV/64586		
60178509003	**GW-074926-091814-MW-3**	EPA 5030B/8260	MSV/64586		
60178509004	**GW-074926-091814-MW-4**	EPA 5030B/8260	MSV/64586		
60178509005	**GW-074926-091814-DUP**	EPA 5030B/8260	MSV/64586		
60178509006	**TRIP BLANK**	EPA 5030B/8260	MSV/64586		

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Sample Condition Upon Receipt
ESI Tech Spec Client

WO# : 60178509

60178509

Client Name: COP CRA

Optional
Proj Due Date:
Proj Name:

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

Tracking #: 6113 5279 9015 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 ☒ 2PLC

Thermometer Used: (T-239) / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.2

Date and initials of person examining contents: JD 9/20

Temperature should be above freezing to 6°C

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

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: [signature] Date: 9/20

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

Start: 1025	Start:
End: 1045	End:
Temp:	Temp:

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A — **Required** Client Information:

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

Section B — **Required** Project Information:

Report To:	Christine Mathews
Copy To:	Jeff Walker, Angela Bown
Purchase Order No.:	4517664592
Project Name:	Flora Vista No. 1
Project Number:	074926

Section C — Invoice Information:

Attention:	ePayables
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	5514, 22

REGULATORY AGENCY

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

Site Location STATE: NM

Section D — Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX	6010 Dissolved Fe & Mn		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60178509
1	GW-074926-091814-CB-MW-1	WT	G	—	—	9/18/14	1030		4			1	3						X	X	BP3F 2.0 (3) DG4H		a1
2	GW-074926-091814-CB-MW-2	WT	G	—	—	9/18/14	0940		4			1	3						X	X			a2
3	GW-074926-091814-CB-MW-3	WT	G	—	—	9-18-14	0940		4			1	3						X	X			a3
4	GW-074926-091814-CB-MW-4	WT	G	—	—	9-18-14	1020		4			1	3						X	X			a4
5	GW-074926-091814-CB-dup	WT	G	—	—	9-18-14			3				3						X				a5
6	Trip Blank	WT	—	—	—	9-19-14	1500		3				3						X		(3) DG9H TB		a6
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Metals have been field filtered	Cassie Brown / CRA	9/19/14	1000	[signature] Pace	9/20	0815	1.2	Y	Y	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown

DATE Signed (MM/DD/YY): 9/19/14

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

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

Pace Analytical Services, Inc.
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January 05, 2015

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

RE: Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

Dear Christine Mathews:
Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 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 Fetters, COP Conestoga-Rovers & Associa
Jeff Walker, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

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

Pace Analytical Services, Inc.
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SAMPLE SUMMARY

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60185120001	**GW-074926-121814-CM-MW-4**	Water	12/18/14 10:50	12/20/14 09:00
60185120002	**GW-074926-121814-CM-MW-2**	Water	12/18/14 11:10	12/20/14 09:00
60185120003	**GW-074926-121814-CM-DUP**	Water	12/18/14 00:00	12/20/14 09:00
60185120004	**TB-074926-121814-CM-001**	Water	12/18/14 11:20	12/20/14 09:00

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SAMPLE ANALYTE COUNT

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60185120001	**GW-074926-121814-CM-MW-4**	EPA 6010	SMW	2
		EPA 5030B/8260	PRG	8
60185120002	**GW-074926-121814-CM-MW-2**	EPA 6010	SMW	2
		EPA 5030B/8260	PRG	8
60185120003	**GW-074926-121814-CM-DUP**	EPA 5030B/8260	PRG	8
60185120004	**TB-074926-121814-CM-001**	EPA 5030B/8260	PRG	8

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PROJECT NARRATIVE

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: CRA Conoco New Mexico
Date: January 05, 2015

General Information:
2 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:

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PROJECT NARRATIVE

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: CRA Conoco New Mexico
Date: January 05, 2015

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

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

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

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

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

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

QC Batch: MSV/66753

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

- GW-074926-121814-CM-MW-4 (Lab ID: 60185120001)
  - 4-Bromofluorobenzene (S)

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

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

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

QC Batch: MSV/66753

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

Sample: GW-074926-121814-CM-MW-4 **Lab ID: 60185120001** Collected: 12/18/14 10:50 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron, Dissolved	**4020**	ug/L	50.0	1	12/23/14 10:30	12/29/14 13:59	7439-89-6	
Manganese, Dissolved	**4460**	ug/L	5.0	1	12/23/14 10:30	12/29/14 13:59	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**39.8**	ug/L	1.0	1		12/29/14 23:05	71-43-2	
Ethylbenzene	**6.2**	ug/L	1.0	1		12/29/14 23:05	100-41-4	
Toluene	ND	ug/L	1.0	1		12/29/14 23:05	108-88-3	
Xylene (Total)	**48.6**	ug/L	3.0	1		12/29/14 23:05	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	126	%	80-120	1		12/29/14 23:05	460-00-4	S2
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		12/29/14 23:05	17060-07-0	
Toluene-d8 (S)	103	%	80-120	1		12/29/14 23:05	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/29/14 23:05		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

Sample: GW-074926-121814-CM-MW-2 **Lab ID: 60185120002** Collected: 12/18/14 11:10 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron, Dissolved	**709**	ug/L	50.0	1	12/23/14 10:30	12/29/14 14:01	7439-89-6	
Manganese, Dissolved	**5.5**	ug/L	5.0	1	12/23/14 10:30	12/29/14 14:01	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		12/24/14 18:21	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/24/14 18:21	100-41-4	
Toluene	ND	ug/L	1.0	1		12/24/14 18:21	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/24/14 18:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	80-120	1		12/24/14 18:21	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	80-120	1		12/24/14 18:21	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		12/24/14 18:21	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/24/14 18:21		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

Sample: GW-074926-121814-CM-DUP **Lab ID: 60185120003** Collected: 12/18/14 00:00 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**29.6**	ug/L	1.0	1		12/29/14 23:19	71-43-2	
Ethylbenzene	**4.8**	ug/L	1.0	1		12/29/14 23:19	100-41-4	
Toluene	ND	ug/L	1.0	1		12/29/14 23:19	108-88-3	
Xylene (Total)	**35.4**	ug/L	3.0	1		12/29/14 23:19	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	115	%	80-120	1		12/29/14 23:19	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		12/29/14 23:19	17060-07-0	
Toluene-d8 (S)	102	%	80-120	1		12/29/14 23:19	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/29/14 23:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

Sample: TB-074926-121814-CM-001 **Lab ID: 60185120004** Collected: 12/18/14 11:20 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		12/24/14 15:39	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/24/14 15:39	100-41-4	
Toluene	ND	ug/L	1.0	1		12/24/14 15:39	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/24/14 15:39	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		12/24/14 15:39	460-00-4	
1,2-Dichloroethane-d4 (S)	81	%	80-120	1		12/24/14 15:39	17060-07-0	
Toluene-d8 (S)	95	%	80-120	1		12/24/14 15:39	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/24/14 15:39		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

QC Batch: MPRP/30290 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60185120001, 60185120002

METHOD BLANK: 1499240 Matrix: Water
Associated Lab Samples: 60185120001, 60185120002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	50.0	12/29/14 13:25	
Manganese, Dissolved	ug/L	ND	5.0	12/29/14 13:25	

LABORATORY CONTROL SAMPLE: 1499241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	9370	94	80-120	
Manganese, Dissolved	ug/L	1000	968	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499242 1499243

Parameter	Units	60185128002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	ND	10000	10000	9310	9240	93	92	75-125	1	20	
Manganese, Dissolved	ug/L	1370	1000	1000	2290	2290	93	93	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

QC Batch: MSV/66697
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60185120002, 60185120004

METHOD BLANK: 1499450 Matrix: Water
Associated Lab Samples: 60185120002, 60185120004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/24/14 15:09	
Ethylbenzene	ug/L	ND	1.0	12/24/14 15:09	
Toluene	ug/L	ND	1.0	12/24/14 15:09	
Xylene (Total)	ug/L	ND	3.0	12/24/14 15:09	
1,2-Dichloroethane-d4 (S)	%	83	80-120	12/24/14 15:09	
4-Bromofluorobenzene (S)	%	94	80-120	12/24/14 15:09	
Toluene-d8 (S)	%	98	80-120	12/24/14 15:09	

LABORATORY CONTROL SAMPLE: 1499451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.6	103	80-120	
Ethylbenzene	ug/L	20	19.4	97	80-120	
Toluene	ug/L	20	20.0	100	80-120	
Xylene (Total)	ug/L	60	61.6	103	80-120	
1,2-Dichloroethane-d4 (S)	%			82	80-120	
4-Bromofluorobenzene (S)	%			93	80-120	
Toluene-d8 (S)	%			94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499452 1499453

Parameter	Units	60184922004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	20	20	21.3	22.4	106	112	46-155	5	13	
Ethylbenzene	ug/L	<0.50	20	20	19.5	22.3	97	111	51-148	13	14	
Toluene	ug/L	<0.50	20	20	20.2	22.0	101	110	47-149	9	16	
Xylene (Total)	ug/L	<1.5	60	60	60.3	69.3	101	115	39-158	14	15	
1,2-Dichloroethane-d4 (S)	%						82	84	80-120			
4-Bromofluorobenzene (S)	%						96	96	80-120			
Toluene-d8 (S)	%						97	97	80-120			
Preservation pH		1.0			1.0	1.0				0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

QC Batch: MSV/66753 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60185120001, 60185120003

METHOD BLANK: 1500711 Matrix: Water
Associated Lab Samples: 60185120001, 60185120003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/29/14 18:54	
Ethylbenzene	ug/L	ND	1.0	12/29/14 18:54	
Toluene	ug/L	ND	1.0	12/29/14 18:54	
Xylene (Total)	ug/L	ND	3.0	12/29/14 18:54	
1,2-Dichloroethane-d4 (S)	%	102	80-120	12/29/14 18:54	
4-Bromofluorobenzene (S)	%	102	80-120	12/29/14 18:54	
Toluene-d8 (S)	%	98	80-120	12/29/14 18:54	

LABORATORY CONTROL SAMPLE: 1500712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.1	105	80-120	
Ethylbenzene	ug/L	20	21.1	106	80-120	
Toluene	ug/L	20	21.0	105	80-120	
Xylene (Total)	ug/L	60	63.2	105	80-120	
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Toluene-d8 (S)	%			105	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

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/66753

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

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 074926 Flora Vista No. 1
Pace Project No.: 60185120

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60185120001	**GW-074926-121814-CM-MW-4**	EPA 3010	MPRP/30290	EPA 6010	ICP/22647
60185120002	**GW-074926-121814-CM-MW-2**	EPA 3010	MPRP/30290	EPA 6010	ICP/22647
60185120001	**GW-074926-121814-CM-MW-4**	EPA 5030B/8260	MSV/66753		
60185120002	**GW-074926-121814-CM-MW-2**	EPA 5030B/8260	MSV/66697		
60185120003	**GW-074926-121814-CM-DUP**	EPA 5030B/8260	MSV/66753		
60185120004	**TB-074926-121814-CM-001**	EPA 5030B/8260	MSV/66697		

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Sample Condition Upon Receipt
ESI Tech Spec Client

WO# : 60185120

60185120

Client Name: COP CBA NM

Optional
Proj Due Date:
Proj Name:

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

Tracking #: 6262 7064 9805 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: 3.3

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JH 12/20/14 1100

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: water		13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed: N/A — Lot # of added preservative:
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 112414-3		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AAF Date: 12/22/14

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

Start: 1055	Start:
End: 1102	End:
Temp:	Temp:

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

Section A Required Client Information:

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

Section B Required Project Information:

Report To:	Christine Mathews
Copy To:	Jeff Walker, Angela Bown
Purchase Order No.:	4071736
Project Name:	Flora Vista No. 1
Project Number:	074926

Section C Invoice Information:

Attention:	CRA
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	7801, 22

REGULATORY AGENCY

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

Site Location STATE: NM

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260 BTEX	6010 Dissolved Fe & Mn	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60185120
1	GW-074926-121814-CM-MW-4	WT	G			12.18.14	1050		4			1	3					X	X		001
2	GW-074926-121814-CM-MW-2	WT	G			12.18.14	1110		4			1	3					X	X		002
3	GW-074926-121814-CM-~~AW~~ DUP	WT	G			12.18.14	—		2				2					X			003
4	TB-074926-121814-CM-001	WT				12.18.14	1120		3				3					X			004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Metals field filtered	[signature] /CRA	12/19/14	1200	[signature]	12/19/14	2.0

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/19/14

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

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