

3R-173

SEPTEMBER AND DECEMBER 2011 QUARTERLY GROUNDWATER MONITORING REPORT

CONOCOPHILLIPS FLORA VISTA No. 1 SAN JUAN COUNTY, NEW MEXICO API# 30-045-20073 NMOCD# 3R173

Prepared For:

CONOCOPHILLIPS COMPANY

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1.0 INTRODUCTION

This report presents the results of the quarterly groundwater monitoring events conducted by Conestoga-Rovers & Associates (CRA) on September 29, 2011 and December 14, 2011 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 <u>BACKGROUND</u>

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 it. 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 monitor well (MW-1) slightly downgradient from the center of the excavation (Figure 2). Subsequent monitoring during September 2003 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. Monitor 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.

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A generalized geologic cross section was prepared using boring logs from the August 2008 monitor well installation and is presented as **Figure 3**. On June 15, 2011, Site consulting responsibilities were transferred from Tetra Tech to CRA of Albuquerque, NM. The Flora Vista No. 1 Site history is summarized in **Table 1**.

2.0 GROUNDWATER MONITORING SUMMARY, METHODOLOGY, AND ANALYTICAL RESULTS

2.1 <u>GROUNDWATER MONITORING SUMMARY</u>

On September 29, 2011 and December 14, 2011, groundwater elevation measurements were recorded in Monitor Wells MW-1, MW-2, MW-3, and MW-4 using an oil/water interface probe. Groundwater elevations are detailed in **Table 2**. Groundwater potentiometric surface maps created from September and December 2011 data are presented as **Figures 4** and **6**, respectively. Based on the September and December 2011 monitoring events data, groundwater flow is to the southwest and is consistent with historic monitoring event records for this Site.

2.2 <u>GROUNDWATER MONITORING METHODOLOGY</u>

Approximately three well volumes were purged from Monitor Wells MW-1, MW-2, MW-3, and MW-4 with a dedicated polyethylene 1.5-inch disposable bailer prior to sampling. Purge water generated during purging of Site monitor wells was placed in the on-Site produced water tank (Figure 2). Groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped under chain-of-custody documentation to Pace Analytical Services, Inc. of Lenexa, Kansas. Samples were analyzed for the presence of BTEX by Environmental Protection Agency (EPA) Method 8260, dissolved iron and manganese by EPA Method 6010, and sulfate by EPA method 300.0. CRA groundwater sampling field forms are included as Appendix A.

2.3 <u>GROUNDWATER MONITORING ANALYTICAL RESULTS</u>

Groundwater samples collected from Monitor Wells MW-2 and MW-3 did not exceed . New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards for any target constituents. Groundwater collected from Monitor Wells MW-1 and MW-4 exceeded the NMWQCC standards for the following constituents:

<u>September 2011</u>

- Benzene The NMWQCC standard for benzene is 0.010 milligrams per liter (mg/L). The concentration of benzene found in the groundwater sample collected from MW-1 was 2.440 mg/L. The groundwater sample collected from MW-4, the downgradient well, contained a concentration of benzene at 0.0392 µg/L.
- **Xylenes** The NMWQCC standard for total xylenes is 0.620 mg/L. The concentration of xylenes found in the groundwater sample collected from MW-1 was 3.650 mg/L.
- Dissolved Iron The NMWQCC standard for dissolved iron is 1 milligram per liter (mg/L). The concentrations of dissolved iron found in the groundwater samples collected from MW-1 and MW-4 were 25.2 mg/L and 2.55 mg/L, respectively.
- Dissolved Manganese The NMWQCC standard for dissolved manganese is 0.2 mg/L. The concentration of dissolved manganese found in the groundwater sample collected from MW-1 was 1.02 mg/L. The groundwater sample collected from MW-4 contained a concentration of 4.1 mg/L.

<u>December 2011</u>

- Benzene The NMWQCC standard for benzene is 0.010 milligrams per liter (mg/L). The concentration of benzene found in the groundwater sample collected from MW-1 was 2.310 mg/L. The groundwater sample collected from MW-4, the downgradient well, contained a concentration of benzene at 0.101 mg/L.
- **Xylenes** The NMWQCC standard for total xylenes is 0.620 mg/L. The concentration of xylenes found in the groundwater sample collected from MW-1 was 3.930 mg/L.
- Dissolved Iron The NMWQCC standard for dissolved iron is 1 milligram per liter (mg/L). The concentrations of dissolved iron found in the groundwater samples collected from MW-1 and MW-4 were 25.4 mg/L and 2.62 mg/L, respectively.
- Dissolved Manganese The NMWQCC standard for dissolved manganese is 0.2 mg/L. The concentration of dissolved manganese found in the groundwater sample collected from MW-1 was 0.945 mg/L. The groundwater sample collected from MW-4 contained a concentration of 4.58 mg/L.

A summary of the historical groundwater laboratory analytical results is presented in **Table 3**. The September and December 2011 laboratory analytical reports are included in **Appendix B**.

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CONESTOGA-ROVERS & ASSOCIATES

3.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater samples collected from MW-1 and MW-4 and have consistently exceeded NMWQCC groundwater quality standards for benzene and dissolved manganese from October 2008 through December 2011 and have intermittently exceeded the NMWQCC groundwater quality standard for dissolved iron. Groundwater samples from MW-1 have also historically exceeded NMWQCC groundwater quality standard for xylenes. BTEX constituent concentrations exhibit a decreasing trend over time in MW-1 and MW-4. Based on the historical groundwater quality data, groundwater samples collected from MW-2 and MW-3 have never exceeded NMWQCC groundwater quality standards for BTEX constituents.

CRA recommends the continuation of quarterly sampling of MW-1, MW-2, MW-3, and MW-4 in order to monitor ongoing natural attenuation at the Site. Since sulfate has never been detected in Site monitor wells above the NMWQCC standard, CRA recommends discontinuing sampling for this groundwater quality parameter during quarterly monitoring. The next sampling event will take place in March 2011. CRA will collect samples for BTEX, dissolved iron, and dissolved manganese.

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FIGURES



074926-95(003)GN-DL005 DEC 6/2011



074926-95(003)GN-DL001 DEC 6/2011



074926-95(003)GN-DL002 JAN 31/2012



SEPTEMBER 2011 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(003)GN-DL003 DEC 6/2011



074926-95(003)GN-DL004 MAR 19/2012



DECEMBER 2011 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(003)GN-DL003 JAN 13/2012



074926-95(003)GN-DL004 MAR 19/2012

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TABLES

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TABLE 1

SITE HISTORY TIMELINE NOVEMBER 1995 - DECEMBER 2011 CONOCOPHILLIPS COMPANY FLORA VISTA NO. 1 SAN JUAN COUNTY, NM

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Date/Time Period	Event/Action	Description/Comments
November 28, 1995	Pit Closure Activities	Philip Environmental excavated and removed approximatley 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	Submital 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 goundwater 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.

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Date/Time Period	Event/Action	Description/Comments
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.
December 16, 2009	Private Irrigation Well Sampling	Tetra Tech collected a groundwater sample from a domestic well 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 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	Transter of Site Consulting Responsibilites	On June 15, 2011, Site consulting responsibilities were transferred from Tetra Tech of Albuquerque, NM to Conestoga-Rovers & Associates (CRA) of Albuquerque, NM.

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Date/Time Period	Event/Action	Description/Comments
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.

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TABLE 2

MONITOR WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS JUNE 2003 - DECEMBER 2011 CONOCOPHILLIPS COMPANY FLORA VISTA NO. 1 SAN JUAN COUNTY, NM

	Total Depth		Screen		Depth to	
Well ID	(ft below	Elevation*	Interval	Date Measured	Groundwater (ft	Relative Water Level
	TOC)		(ft bgs)		below TOC)	
				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
MW-1	26.02	94.38	11.02 - 26.02	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
				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
MW-2	31 35	97.1	12 35 - 27 35	9/27/2010	20.12	76.98
101 0 - 2	01.00	77.1	12.00 - 27.00	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

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Well ID	Total Depth (ft below TOC)	Elevation*	Screen Interval (ft bgs)	Date Measured	Depth to Groundwater (ft below TOC)	Relative Water Level
				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
MW/-3	30.87	97.9	11 87 - 26 87	9/27/2010	17.81	75.09
10100-5	50.07	12.1	11.07 - 20.07	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
				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
MM_4	30.42	03.6	11 12 26 12	9/27/2010	18.93	74.67
10100-4	50.42	95.0	11.42 - 20.42	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

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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

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TABLE 3

GROUNDWATER ANALYTICAL RESULTS SUMMARY JUNE 2003 - DECEMBER 2011 CONOCOPHILLIPS COMPANY FLORA VISTA NO. 1 SAN JUAN COUNTY, NM

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)
	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			
NRW 1	MW-1	3/27/2007	(orig)	2.37	0.504	0.007	3.749			-
10100-1	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)	2.10	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

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)
	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	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	17 9	< 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
	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	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
	. 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	NĐ
	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
NABAT A	MW-4	12/14/2010	(orig)	0.13	0.093	< 0.001	0.899	67.5	1.75	4.69
10100-4	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	0.0042 J	0.372			-
	NMWQCC Groundwater Quali	ty Standards		0.01	0.75	0.75	0.62	600	1	0.2

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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

8. J = Estimated value between Method Detection Limit and Reporting Limit

APPENDIX A

SEPTEMBER AND DECEMBER 2011 QUARTERLY GROUNDWATER SAMPLING FIELD FORMS

.ITE/PROJECT NA	ME: <u>Hora Vista No.</u> JOB# <u>074926</u>
SAMPLE	ID: GW-074926-092911-CM-009 WELL# /NU-1
PURGE DATE (MM DD YY)	WELL PURGING INFORMATION 9,24.1 SAMPLE DATE (MM DD YY) EVENCING AND SAMPLING FOULPMENT WELL PURGING INFORMATION (ALLONS) WATER VOL IN CASING (GALLONS) CALLONS (GALLONS) CALLONS
PURGING EQUIPMENT	DEDICATED () N SAMPLING EQUIPMENTDEDICATED (N CIRCLE ONE)
PURGING DEVICE	A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X=
SAMPLING DEVICE	B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® PURGING DEVICE OTHER (SPECIFY) C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X=
PURCING MATERIAL	SAMPLING DEVICE OTHER (SPECIFY)
AND INC MATERIAL	B-STAINLESS STEEL E-POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY)
	SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C A - TEFLON D - POLYPROPYLENE G - COMBINATION X= B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C - ROPE F - SILICONE X - OTHER X=
FILTERING DEVICES 0.45	A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM
WELL DEPT TEMPERATURE 7.03 (°C) 16.35 (°C) 16.35 (°C) (°C) (°C) AMPLE APPEARANCE: VEATHER CONDITIONS: PECIFIC COMMENTS:	H = 26.5 (feet) GROUNDWATER ELEVATION = 76.6 (feet) PH TDS CONDUCTIVITY ORP VOLUME (feet) (feet)
1.78' X O	16=1.245×3=3.73
I CERTIFY THAT SAMPLING 9.29.11 DATE	PROCEDURES WERE EN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

ITE/PROJECT NAME: SAMPLE ID:	<u>Flara VISta No.1</u> JOB# 074926 GW-074926-092911-CM-006 WELL# MW-2
PURGE DATE (MM DD YY)	9.29.11 WELL PURGING INFORMATION 2.010 6.25 SAMPLE DATE (MM DD YY) SAMPLE TIME (24 HOUR) WATER VOL IN CASING (GALLONS) ACTUAL VOL. PURGED (GALLONS)
URGING EQUIPMENTDEDICAT	PURGING AND SAMPLING EQUIPMENT TED(Y) N / SAMPLING EQUIPMENTDEDICATE(Y) N (CIRCLE ONE)
	A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® PURGING DEVICE OTHER (SPECIFY)
	A - TEFLON D - PVC X=
AMPLING MATERIAL	B - STAINLESS STEEL E - POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY) C - POLYPROPYLENE X - OTHER X=
	A - TEFLON D - POLYPROPYLENE G - COMBINATION X= B - TYGON E - FOLYETHYLENE TEFLON/POLYPROPYLENE PHILDER TURING OTHER (SPECTRY)
AMPLING TUBING	C-ROPE F-SILICONE X-OTHER X= SAMPLING TUBING OTHER (SPECIFY)
ILTERING DEVICES 0.45	<u>A-IN-LINE DISPOSABLE</u> B-PRESSURE C-VACUUM 0,45 MICTON FOR MOTAS
DEPTH TO WATER	18 95 (feet) WELL ELEVATION 97 10 (feet) 3 576 (feet) GROUNDWATER ELEVATION 75 43 (feet)
[15:05](C) [- [15:00](C) [-	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Image:
(°C)	(std)(g/L)(µS/cm)(mV)(gal)
AMPLE APPEARANCE:	PRECIPITATION Y MORY TYPE
[2.6]' X 0,1	$6 = 2.018 \times 3 = 6.053$
1 CERTIFY THAT SAMPLING PROGEDU 9.29.11 DATE PR	URESAVENE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

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w	ELL SAMPLING FIELD INFORMATION FORM	
I . <i>ITE/PROJECT NAME</i> :	Flora Vista No. 1 10B# 074926	
SAMPLE ID:	GW-074926-092911-CM-007 WELL# MW.3	<u> </u>
PURGE DATE (MM DD YY)	9.79.11 WELL PURGING INFORMATION 2.18 6.75 SAMPLE DATE (MM DD YY) SAMPLE TIME (24 HOUR) WATER VOL IN CASING (GALLONS) ACTUAL VOL PURGE (GALLONS) PURGING AND SAMPLING EQUIPMENT	 3D
PURGING EQUIPMENTDEDICA	(CIRCLE ONE)	E ONE)
PURGING DEVICE	A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® PURGING DEVICE OTHER (SPEC C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X=	IFY)
PURGING MATERIAL	A - TEFLON D - PVC X= B - STAINLESS STEEL E - POLYET HYLENE PURGING MATERIAL OTHER (SF	CIFY) ?ECIFY)
	SAMPLING MATERIAL OTHER (S	SPECIFY)
	A - TEFLON D - POLYPROPYLENE G - COMBINATION X= B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIF) C DOPE E CILICONE X OTHER	ŋ
FILTERING DEVICES 0.45	A-IN-LINE DISPOSABLE B-PRESSURE C-VACUUM OLISTIC TO ME	etals
DEPTH TO WATER WELL DEPTH TEMPERATURE U.S.O. (°C) U.S.O. (°C) U.S	$\frac{\left[\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	UME 25 (gal) 75 (gal) (gal) (gal)

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.ITE/PROJECT NAN SAMPLE	и: <u>Flova Vista No.</u> јов# <u>074926</u> по: <u>GW-074926-092911-0M-009well#</u> <u>MW-4</u>
PURGE DATE (MM DD YY)	WELL PURGING INFORMATION 9-29-11 SAMPLE DATE (MM DD YY) WELL PURGING INFORMATION (24 HOUR) WATER VOL IN CASING (24 HOUR) (24 HOUR)
PURGING EQUIPMENT	EDICATEE Y N SAMPLING EQUIPMENT (CIRCLE ONE) (CIRCLE ONE)
PURGING DEVICE	A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= B - PERISTALITIC PUMP E - PURGE PUMP H - WATERRA® PURGING DEVICE OTHER (SPECIFY) C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X=
PURGING MATERIAL SAMPLING MATERIAL	A - TEFLON D - PVC X= B - STAINLESS STEEL E - POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY) C - POLYPROPYLENE X - OTHER X=
PURGE TUBING 5AMPLING TUBING FILTERING DEVICES 0.45	A - TEFLON D - POLYPROPYLENE G - COMBINATION X= B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE X= C - ROPE F - SILICONE X - OTHER X= A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM X=
DEPTH TO WATE WELL DEPTH TEMPERATURE 5,29,19(°C) 5,15,15(°C) 15,15(°C) (°C) (°C) (°C) SAMPLE APPEARANCE: VEATHER CONDITIONS: SPECIFIC COMMENTS:	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
12048X.0.1 Pup	= 1,997 X 3 = 5,99 Icate GW-074926-092911-CM-010 collected @ 1300
I CERTIFY THAT SAMPLING	PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOL

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, T	VELL SAMPLING FIELD INFORMATION FORM
.TE/PROJECT NAME: SAMPLE ID:	Flora Vista JOB# 074926 GW.074926.121411. (B. MW. WELL# MW-1
PURGE DATE (MM DD YY)	WELL PURGING INFORMATION 2.6 SAMPLE DATE SAMPLE TIME (MM DD YY) (24 HOUR) (Allons) (GALLONS)
PURGING EQUIPMENTDEDI	CATED Y N (CIRCLE ONE) CATED Y N (CIRCLE ONE)
PURGING DEVICE	A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® PURGING DEVICE OTHER (SPECIFY) C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X=
PURGING MATERIAL	A - TEFLON D - PVC X= B - STAINLESS STEEL E - POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY) C - POLYPROPYLENE X - OTHER X=
PURGE TUBING	A - TEFLON D - POLYPROPYLENE G - COMBINATION X= B - TYCON F - POLYPROPYLENE TEFLON/POLYPROPYLENE PUPCE TUBING OTHER (SPECIEV)
SAMPLING TUBING	C - ROPE F - SILICONE X - OTHER X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM
DEPTH TO WATER WELL DEPTH	FIELD MEASUREMENTS
TEMPERATURE	pH TDS CONDUCTIVITY ORP VOLUME $(\mu, S, 7)$ $(\mu S/cm)$ $-4.4.9$ (mV) $\frac{1}{2.5}$ (gal)
[(p.59 (std) 0.790 (g/L) 1005 (µS/cm) 74.3 (mV) 2.0 (gal) (std) (g/L) (µS/cm) (mV) (gal)
	(gal)
SAMPLE APPEARANCE: WEATHER CONDITIONS: SPECIFIC COMMENTS:	FIELD COMMENTS ICL ODOR: UCL ODOR: <
0.6813 - 2.62 Well baile	d down very fast after a 2 volumes
I CERTIFY THAT SAMPLING PROC	TEDUXIES WERE IN ACCORDANCE WITH APPLICABLE CRA DIGITOCOLS

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	WELL SAMPLING FIELD INFORMATION FORM
FE/PROJECT NAM SAMPLE	ие: <u>Elova Vi Ha</u> јов# <u>074926</u> 10: <u>GW: 074926 121411. (B· MW-2</u> well# <u>MW-2</u>
PURGE DATE (MM DD YY)	WELL PURGING INFORMATION 5.0 SAMPLE DATE SAMPLE TIME 5.0 (MM DD YY) (24 HOUR) (GALLONS)
PURGING EQUIPMENT	DEDICATED N SAMPLING EQUIPMENTDEDICATED Y N (CIRCLE ONE) (CIRCLE ONE)
PURGING DEVICE	A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAHLER X= B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	C-BLADDER PUMP F-DIPPER BOTTLE X-OTHER X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL SAMPLING MATERIAL	L A - TEFLON D - PVC X= E B - STAINLESS STEEL E - POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY) C - POLYPROPYLENE X - OTHER X=
PURGE TUBING	A - TEFLON D - POLYPROPYLENE G - COMBINATION X=
SAMPLING TUBING	C-ROPE F-SILICONE X-OTHER X=
FILTERING DEVICES 0.45	A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM
DEPTH TO WATE WELL DEPT. TEMPERATURE 19.33 (°C) 19.4 (°C) 19.4 (°C) (°C) (°C)	FIELD MEASUREMENTS FIELD MEASUREMENTS R 2 7g (feet) WELL ELEVATION 97 (feet) H 3 59 (feet) GROUNDWATER ELEVATION 75 (feet) pH TDS CONDUCTIVITY ORP VOLUME 1 PH TDS CONDUCTIVITY ORP VOLUME 1
SAMPLE APPEARANCE: WEATHER CONDITIONS: SPECIFIC COMMENTS:	Clear ODOR: Abuse COLOR: Clear SHEEN Y/K) TEMPERATURE 1.35 WINDY Y/K) PRECIPITATION Y/K)(IF Y TYPE)
1156x3= 4.	
I CERTIFY THAT SAMPLING	PROCEEDERES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

. Set

.TE/PROJECT NAME:	Plana Vite 10B#	57492.10
SAMPLE ID:	(4W.074926.121411.CB.MUBWELL# 1	12-3
PURGE DATE (MM DD YY)	WELL PURGING INFORMATION SAMPLE DATE (MM DD YY) (MM DD YY)	I CASING ACTUAL VOL. PURGED IS) (GALLONS)
· PURGING EQUIPMENTDEDICA	TED (Y) SAMPLING EQUIPMENT (CIRCLE ONE)	ING EQUIPMENTDEDICATED
PURGING DEVICE	A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER	X=
AMPLING DEVICE	C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER	X=
PURGING MATERIAL	A - TEFLON D - PVC B - STAINLESS STEEL E - POLYETHYLENE C - POLYPROPYLENE X - OTHER	X= PURGING MATERIAL OTHER (SPECIFY) X=
URGE TUBING		SAMPLING MATERIAL OTHER (SPECIFY) X= PURGE TUBING OTHER (SPECIFY) X= SAMPLING TUBING OTHER (SPECIFY)
ILTERING DEVICES 0.45	A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM	· · · · · · · · · · · · · · · · · · ·
DEPTH TO WATER WELL DEPTH TEMPERATURE 	9 3 (feet) WELL ELEVATION 30 23 (feet) GROUNDWATER ELEVATION pH TDS CONDUCTIVITY .12 (std) 0.493 (g/L) 605 .66 (std) 0.496 (g/L) 608 (µS/cm) .63 (std) 0.496 (g/L) 602 (µS/cm) .640 (g/L) (µS/cm) (µS/cm) (µS/cm)	92.90 (feet) 73.77 (feet) ORP VOLUME (9.3 (mV) 5.0 (gal (8.0 (mV) 5.5 (gal (8.9 (mV) 6.0 (gal (mV) (gal (mV) (gal
EATHER CONDITIONS: TEMPI PECIFIC COMMENTS: $1.77\chi3 \approx 5.32$	PRECE	SHEEN Y/Y PITATION Y (IF Y TYPE)

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	WELL SAMPLIN	NG FIELD INFO	RMATION FOR	M	
.TE/PROJECT NAM	$ME: \underbrace{HOM}_{(-1), (-1)}$	Mr. MAILY R.M.		7492 <i>(0</i> 1)-4	
	$\frac{10}{10}$				
PURGE DATE (MM DD YY)	SAMPLE DATE	WELL PURGING INFORM	AATION	G ACTUAL VOL. PURG	ED
· · · · · · · · · · · · · · · · · · ·	PU	RGING AND SAMPLING H	QUIPMENT	(children (c)	
PURGING EQUIPMENTI	DEDICATED Y N (CIRCLE ONE)	• •	SAMPLING E	QUIPMENTDEDICATE	Ý N EONE)
PURGING DEVICE	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP G - B E - PURGE PUMP H - V	AILER X VATERRA®	= PURGING DEVICE OTHER (SPEC	TFY)
SAMPLING DEVICE	G C-BLADDER PUMP	F - DIPPER BOTTLE X - C	THER X	= SAMPLING DEVICE OTHER (SPE	
PURGING MATERIAL	A - TEFLON B - STATNU ECC STEEL	D - PVC	X4		
SAMPLING MATERIAL	C - FOLYPROPYLENE	X - OTHER .	X	FORGING MATERIAL OTHER (SI	
PURGE TUBING	A-TEFLON	D - POLYPROPYLENE G - C	OMBINATION X	=	
SAMPLING TUBING	C-ROPE	F-SILICONE X-O	THER X	=	r)
FILTERING DEVICES 0.45	A - IN-LINE DISPOSA	ABLE B - PRESSURE	C-VACUUM	SAMPLING TUBING OTHER (SPE	CIFY)
		FIELD MEASUREMEN	VTS		
DEPTH TO WATE	R 2028	(feet) WELL	ELEVATION	93.60 (feet)	
WELL DEPT	н 🖾 30-36	(feet) GROUNDWATE	R ELEVATION	73.32 (feet)	
TEMPERATURE	рН	TDS COND	UCTIVITY	ORP VOL	UME
(°C)	(std)	(g/L)	(μS/cm)	(mV)	(ga]
(°C)	(std)	(g/L)	(μS/cm)	(mV)	(gal
(°C)	(std)	(g/L)	(μS/cm)	(mV)	(gal
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal
AMPLE APPEARANCE: VEATHER CONDITIONS:	black odor. TEMPERATURE	FIELD COMMENTS	Spr: black shi	енО/N <u>Сочт інсоиз</u> NN Y/Q(IF Y ТУРЕ)	
PECIFIC COMMENTS:	No parameter	3 faken due f	o sheey,		
NU(X) = 4.8	, , , , , , , , , , , , , , , , , , ,		<u> </u>	······································	
		······		·····	
1 CERTIFY THAT SAMPLING	PROCEDURES WERE IN ACCORDANCE	WITH APPLICABLE CRA PROTOCO	Brown	· ·	
DATE	PRINT	CYCAL PERTY			

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APPENDIX B

SEPTEMBER AND DECEMBER 2011 QUARTERLY GROUNDWATER LABORATORY ANALYTICAL REPORTS

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

October 18, 2011

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

RE: Project: FLORA VISTA NO. 1 Pace Project No.: 60107347

Dear Angela Bown:

Enclosed are the analytical results for sample(s) received by the laboratory on October 01, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

SWA (ECUSE

Anna Custer for Dianna Meier dianna.meier@pacelabs.com Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FLORA VISTA NO. 1 Pace Project No.: 60107347

Kansas Certification IDs

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FLORA VISTA NO. 1 Pace Project No.: 60107347 Lab ID Sample ID **Date Received** Matrix **Date Collected** 60107347001 GW-074926-092911-CM-006 09/29/11 11:45 10/01/11 08:00 Water 60107347002 10/01/11 08:00 GW-074926-092911-CM-007 Water 09/29/11 12:35 60107347003 GW-074926-092911-CM-008 Water 09/29/11 12:50 10/01/11 08:00 60107347004 GW-074926-092911-CM-009 10/01/11 08:00 Water 09/29/11 13:10 60107347005 GW-074926-092911-CM-010 Water 09/29/11 13:00 10/01/11 08:00 60107347006 TB-092911-001 09/29/11 13:20 10/01/11 08:00 Water

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SAMPLE ANALYTE COUNT

Project: FLORA VISTA NO. 1 Pace Project No.: 60107347

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60107347001	GW-074926-092911-CM-006	EPA 6010	JDH	2
		EPA 8260	HNS	9
		EPA 300.0	JPF	1
60107347002	GW-074926-092911-CM-007	EPA 6010	JDH	2
		EPA 8260	HNS	9
		EPA 300.0	JPF	1
60107347003	GW-074926-092911-CM-008	EPA 6010	JDH	2
		EPA 8260	PRG	9
		EPA 300.0	JPF	1
60107347004	GW-074926-092911-CM-009	EPA 6010	JDH	2
		EPA 8260	HNS	9
		EPA 300.0	JPF	1
60107347005	GW-074926-092911-CM-010	EPA 8260	HNS	9
60107347006	TB-092911-001	EPA 8260	HNS	9

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1 Pace Project No.: 60107347

Method: EPA 6010

 Description:
 6010 MET ICP, Dissolved

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

 Date:
 October 18, 2011

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 with any exceptions noted below.

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1 Pace Project No.: 60107347

Method: EPA 8260

 Description:
 8260 MSV UST, Water

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

 Date:
 October 18, 2011

General Information:

6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

QC Batch: MSV/40758

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

- BLANK (Lab ID: 889125)
 - Toluene-d8 (S)

QC Batch: MSV/40858

- S0: Surrogate recovery outside laboratory control limits.
- · GW-074926-092911-CM-008 (Lab ID: 60107347003)
 - Toluene-d8 (S)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: MSV/40757

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

QC Batch: MSV/40758

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

QC Batch: MSV/40798

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

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1

Pace Project No.: 60107347

Method: EPA 8260

 Description:
 8260 MSV UST, Water

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

 Date:
 October 18, 2011

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1 Pace Project No.: 60107347

Method: EPA 300.0

Description:300.0 IC Anions 28 DaysClient:COP Conestoga-Rovers & Associates, Inc. NMDate:October 18, 2011

General Information:

4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

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Project: FLORA VISTA NO. 1

Pace Project No.: 60107347

Sample: GW-074926-092911-CM-00	6 Lab ID:	60107347001	Collecter	d: 09/29/11	11:45	Received: 10/	/01/11 08:00 M	atrix: Water	· · · · ·
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	010 Prepa	ration Meth	od: EP/	3010			
Iron, Dissolved	ND u	g/L	50.0	6.0	1	10/03/11 13:37	10/04/11 18:09	7439-89-6	
Manganese, Dissolved	ND u	g/L	5.0	0.90	1	10/03/11 13:37	10/04/11 18:09	7439-96-5	
8260 MSV UST, Water	Analytical	Method: EPA 8	260						
Benzene	ND u	g/L	1.0	0.040	1		10/12/11 02:45	71-43-2	
Ethylbenzene	ND u	g/L	1.0	0.10	1		10/12/11 02:45	100-41-4	
Toluene	ND u	g/L	1.0	0.10	1		10/12/11 02:45	108-88-3	
Xylene (Total)	ND u	g/L	3.0	0.30	1		10/12/11 02:45	1330-20-7	
Dibromofluoromethane (S)	93 %	-)	86-112		1		10/12/11 02:45	1868-53-7	
Toluene-d8 (S)	100 %		90-110		1		10/12/11 02:45	2037-26-5	
4-Bromofluorobenzene (S)	99 %)	87-113		1		10/12/11 02:45	460-00-4	
1,2-Dichloroethane-d4 (S)	96 %)	82-119		1		10/12/11 02:45	17060-07-0	
Preservation pH	1.0		1.0	0.10	1		10/12/11 02:45		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0						
Sulfate	151 m	g/L	10.0	1.6	10		10/16/11 11:23	14808-79-8	

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Project: FLORA VISTA NO. 1

Pace Project No.: 60107347

Sample: GW-074926-092911-CM-00	7 Lab ID: (60107347002	Collected	: 09/29/11	12:35	Received: 10/	01/11 08:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical N	/lethod: EPA 6	010 Prepar	ation Meth	od: EPA	3010			
Iron, Dissolved	ND ug	/L	50.0	6.0	1	10/03/11 13:37	10/04/11 18:12	7439-89-6	
Manganese, Dissolved	6.3 ug	/L	5.0	0.90	1	10/03/11 13:37	10/04/11 18:12	7439-96-5	
8260 MSV UST, Water	Analytical N	/lethod: EPA 8	260						
Benzene	ND ug	/L	1.0	0.040	1		10/12/11 03:01	71-43-2	
Ethylbenzene	ND ug	/L	1.0	0.10	1		10/12/11 03:01	100-41-4	
Toluene	ND ug	/L	1.0	0.10	1		10/12/11 03:01	108-88-3	
Xylene (Total)	ND ug	/L	3.0	0.30	1		10/12/11 03:01	1330-20-7	
Dibromofluoromethane (S)	96 %		86-112		1		10/12/11 03:01	1868-53-7	
Toluene-d8 (S)	102 %		90-110		1		10/12/11 03:01	2037-26-5	
4-Bromofluorobenzene (S)	103 %		87-113		1		10/12/11 03:01	460-00-4	
1,2-Dichloroethane-d4 (S)	95 %		82-119		1		10/12/11 03:01	17060-07-0	
Preservation pH	1.0		1.0	0.10	1		10/12/11 03:01		
300.0 IC Anions 28 Days	Analytical N	/lethod: EPA 3	00.0						
Sulfate	160 mg	ı/L	10.0	1.6	10		10/16/11 11:38	14808-79-8	

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Project: FLORA VISTA NO. 1

Pace Project No.: 60107347

Sample: GW-074926-092911-CM-00	08 Lab ID:	60107347003	Collected	1: 09/29/1	1 12:50	Received: 10/	01/11 08:00 M	atrix: Water	
Parameters	Results	Units	Report Limit	, MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	010 Prepar	ation Meth	od: EP/	A 3010			
Iron, Dissolved	2550 u	ig/L	50.0	6.0	1	10/03/11 13:37	10/04/11 18:14	7439-89-6	
8260 MSV UST. Water	Analytical	Method: EPA 8	5.0	0.90	I	10/03/11 13.37	10/04/11 10.14	7439-90-5	
Benzene	39.2 u	a/L	1.0	0.050	1		10/13/11 17:07	71-43-2	
Ethylbenzene	3.9 u	a/L	1.0	0.080	1		10/13/11 17:07	100-41-4	
Toluene	ND u	g/L	1.0	0.070	1		10/13/11 17:07	108-88-3	
Xylene (Total)	53.6 u	g/L	3.0	0.18	1		10/13/11 17:07	1330-20-7	
Dibromofluoromethane (S)	95 %	6	86-112		1 ·		10/13/11 17:07	1868-53-7	
Toluene-d8 (S)	113 %	6	90-110		1		10/13/11 17:07	2037-26-5	S0
4-Bromofluorobenzene (S)	107 %	6	87-113		1		10/13/11 17:07	460-00-4	
1,2-Dichloroethane-d4 (S)	95 %	6	82-119		1		10/13/11 17:07	17060-07-0	
Preservation pH	1.0		1.0	0.10	1		10/13/11 17:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	0.00						,
Sulfate	96.1 n	ng/L	10.0	1.6	10		10/16/11 12:09	14808-79-8	

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Project: FLORA VISTA NO. 1 7347

Pace I	Project	No.:	6010
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Sample: GW-074926-092911-CM-009	Eab ID:	60107347004	Collecte	d: 09/29/11	13:10	Received: 10/	01/11 08:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytica	Method: EPA 6	010 Prepa	ration Meth	od: EPA	3010			
Iron, Dissolved	25200 L	ıg/L	50.0	6.0	1	10/03/11 13:37	10/04/11 18:16	7439-89-6	
Manganese, Dissolved	1020 ι	ıg/L	5.0	0.90	1	10/03/11 13:37	10/04/11 18:16	7439-96-5	
8260 MSV UST, Water	Analytical	Method: EPA 8	260						
Benzene	2440 ι	ıg/L	50.0	2.0	50		10/12/11 05:12	71-43-2	
Ethylbenzene	519 u	ig/L	5.0	0.50	5		10/10/11 12:32	100-41-4	
Toluene	NDL	ig/L	5.0	0.50	5		10/10/11 12:32	108-88-3	
Xylene (Total)	3650 ι	ıg/L	150	15.0	50		10/12/11 05:12	1330-20-7	
Dibromofluoromethane (S)	104 %	6	86-112		5.		10/10/11 12:32	1868-53-7	
Toluene-d8 (S)	101 %	6	90-110		5		10/10/11 12:32	2037-26-5	
4-Bromofluorobenzene (S)	94 %	6	87-113		5		10/10/11 12:32	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %	6	82-119		5		10/10/11 12:32	17060-07-0	
Preservation pH	1.0		1.0	0.10	5		10/10/11 12:32		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0						
Sulfate	ND n	ng/L	1.0	0.16	1		10/16/11 18:00	14808-79-8	

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Project: FLORA VISTA NO. 1

Pace Project No.: 60107347

Sample: GW-074926-092911-CM-010	D Lab ID:	60107347005	Collecter	d: 09/29/11	13:00	Received: 10	/01/11 08:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical	Method: EPA 8	260						
Benzene	43.0 u	ıg/L	1.0	0.040	1		10/10/11 12:48	71-43-2	
Ethylbenzene	3.5 u	ıg/L	1.0	0.10	1		10/10/11 12:48	100-41-4	
Toluene	ND u	ıg/L	1.0	0.10	1		10/10/11 12:48	108-88-3	
Xylene (Total)	48.3 u	ıg/L	3.0	0.30	1		10/10/11 12:48	1330-20-7	
Dibromofluoromethane (S)	102 %	6	86-112		1		10/10/11 12:48	1868-53-7	
Toluene-d8 (S)	110 %	6	90-110		1		10/10/11 12:48	2037-26-5	
4-Bromofluorobenzene (S)	97 %	6	87-113		1		10/10/11 12:48	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %	6	82-119		1		10/10/11 12:48	17060-07-0	
Preservation pH	1.0		1.0	0.10	1		10/10/11 12:48		

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Project: FLORA VISTA NO. 1

Pace Project No.: 60107347

Sample: TB-092911-001	Lab ID:	60107347006	Collected	I: 09/29/11	13:20	Received: 10	/01/11 08:00 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical	Method: EPA 8	260						
Benzene	ND u	g/L	1.0	0.040	1		10/10/11 13:04	71-43-2	
Ethylbenzene	ND u	g/L	1.0	0.10	1 .		10/10/11 13:04	100-41-4	
Toluene	ND u	g/L	1.0	0.10	1		10/10/11 13:04	108-88-3	
Xylene (Total)	ND u	g/L	3.0	0.30	1		10/10/11 13:04	1330-20-7	
Dibromofluoromethane (S)	100 %	, 0	86-112		1		10/10/11 13:04	1868-53-7	
Toluene-d8 (S)	98 %	, 0	90-110		1		10/10/11 13:04	2037-26-5	
4-Bromofluorobenzene (S)	106 %	, 0	87-113		1		10/10/11 13:04	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %	, 0	82-119		1		10/10/11 13:04	17060-07-0	
Preservation pH	1.0		1.0	0.10	1		10/10/11 13:04		

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Project:	FLORA VIS	STA NO. 1											
Pace Project No.:	60107347							<u>,</u>					
QC Batch:	MPRP/15	527		Analysi	is Method:	: E	EPA 6010						
QC Batch Method:	EPA 3010			Analysi	is Descrip	tion: 6	010 MET Di	ssolved					
Associated Lab Sar	nples: 601	07347001, 60	0107347002	, 601073470	003, 6010	7347004							
METHOD BLANK:	885402			• N	latrix: Wa	ter						•	,
Associated Lab Sar	nples: 601	07347001, 60	0107347002	, 601073470	003, 6010 ⁻	7347004							
				Blank	R	eporting							
Paran	neter		Units	Result	t	Limit	Analyz	ed	Qualifiers				
Iron, Dissolved		ug/L			ND	50.0) 10/04/11	17:44					
Manganese, Dissolv	ved	ug/L			ND	5.0) 10/04/11	17:44					
LABORATORY CO	NTROL SAM	PLE: 88540	3										
				Spike	LCS	5	LCS	% Re	с				
Paran	neter		Units	Conc.	Resu	alt	% Rec	Limite	s Q	ualifiers			
Iron, Dissolved		ug/L		10000		9680	97		0-120		-		
Manganese, Dissolv	ved	ug/L		1000		980	98	80	0-120				
MATRIX SPIKE & N	IATRIX SPIK	E DUPLICATI	E: 885404	4		885405							
		<u></u>	07000004	MS	MSD	Mo	MOD			0/ D -			
Paramet	ter	601 Units	07298001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron. Dissolved		 ua/L	532	10000	10000	10200	10100	97	96	75-125	1	20	

1000

2830

2820

101

100 75-125

1 20

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Manganese, Dissolved

ug/L

1820

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Project:FLORA VISTA NO. 1Pace Project No.:60107347

QC Batch:	MSV/40757	Analysis Method:	EPA 8260	
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER	
Associated Lab Sam	ples: 60107347001, 60107347002			
METHOD BLANK:	889123	Matrix: Water		
Associated Lab Sam	ples: 60107347001, 60107347002			

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/11/11 21:19	
Ethylbenzene	ug/L	ND	1.0	10/11/11 21:19	
Toluene	ug/L	ND	1.0	10/11/11 21:19	
Xylene (Total)	ug/L	ND	3.0	10/11/11 21:19	
1,2-Dichloroethane-d4 (S)	%	94	82-119	10/11/11 21:19	
4-Bromofluorobenzene (S)	%	97	87-113	10/11/11 21:19	
Dibromofluoromethane (S)	%	96	86-112	10/11/11 21:19	
Toluene-d8 (S)	%	101	90-110	10/11/11 21:19	

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LABORATORY CONTROL SAMPLE: 889124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.5	87	82-117	
Ethylbenzene	ug/L	20	16.9	85	79-121	
Toluene	ug/L	20	17.6	88	80-120	
Xylene (Total)	ug/L	60	51.7	86	79-120	
1,2-Dichloroethane-d4 (S)	%			98	82-119	
4-Bromofluorobenzene (S)	%			104	87-113	
Dibromofluoromethane (S)	%			99	86-112	
Toluene-d8 (S)	%			102	90-110	

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Project: Pace Project No.:	FLORA VISTA NO. 60107347	1					
QC Batch:	MSV/40758		Analysis Me	thod:	EPA 8260		
QC Batch Method:	EPA 8260		Analysis De	scription:	8260 MSV UST-WA	TER	
Associated Lab Sar	mples: 601073470	04, 6010734700	05, 60107347006				
METHOD BLANK:	889125		Matrix	Water			
Associated Lab Sar	mples: 601073470	04, 6010734700	5, 60107347006				
			Blank	Reporting			
Parar	neter	Units	Result	Limit	Analyzed	Qualifiers	

Parameter	Units	Result	Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/10/11 10:29	
Ethylbenzene	ug/L	ND	1.0	10/10/11 10:29	
Toluene	ug/L	ND	1.0	10/10/11 10:29	
Xylene (Total)	ug/L	ND	3.0	10/10/11 10:29	
1,2-Dichloroethane-d4 (S)	%	99	82-119	10/10/11 10:29	
4-Bromofluorobenzene (S)	%	103	87-113	10/10/11 10:29	
Dibromofluoromethane (S)	%	101	86-112	10/10/11 10:29	
Toluene-d8 (S)	%	112	90-110	10/10/11 10:29	S3

LABORATORY CONTROL SAMPLE: 889126

Decemeter	l laita	Spike	LCS	LCS	% Rec	Qualifican
Parameter	Onits	Conc.	Result	% Rec	Limits	Quaimers
Benzene	ug/L	20	17.5	88	82-117	
Ethylbenzene	ug/L	20	18.2	91	79-121	
Toluene	.ug/L	20	18.2	91	80-120	
Xylene (Total)	ug/L	60	52.7	88	79-120	
1,2-Dichloroethane-d4 (S)	%			100	82-119	
4-Bromofluorobenzene (S)	%			105	87-113	
Dibromofluoromethane (S)	%			101	86-112	
Toluene-d8 (S)	%			100	90-110	

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Project:	FLORA	VISTA NO. 1						
Pace Project No.:	601073	47	, ·					
QC Batch:	MSV	40798		Analysis Met	hod: E	PA 8260		
QC Batch Method:	EPA 8	260		Analysis Des	cription: 8	260 MSV UST-WAT	ER	
Associated Lab Sam	nples:	60107347004						
METHOD BLANK:	889730	1	¢	Matrix:	Water			
Associated Lab Sam	ples:	60107347004						
				Blank	Reporting			
Param	neter		Units	Result	Limit	Analyzed	Qualifiers	
Benzene		ug/L		ND	10.0	10/12/11 04:23		
Xylene (Total)		ug/L		ND	30.0	10/12/11 04:23		
1,2-Dichloroethane-	d4 (S)	%		93	82-119	10/12/11 04:23		
4-Bromofluorobenze	ene (S)	%		102	87-113	10/12/11 04:23		
Dibromofluorometha	ine (S)	%		96	86-112	10/12/11 04:23		
Toluene-d8 (S)		%		103	90-110	10/12/11 04:23		

LABORATORY CONTROL SAMPLE: 889731

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/L	20	18.4	92	82-117	
Xylene (Total)	ug/L	60	52.0	87	79-120	
1,2-Dichloroethane-d4 (S)	%			95	82-119	
4-Bromofluorobenzene (S)	%			95	87-113	
Dibromofluoromethane (S)	%			95	86-112	
Toluene-d8 (S)	%			98	90-110	

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Project:	FLORA VISTA NO	D. 1					
Pace Project No.:	60107347						
QC Batch:	MSV/40858		Analysis Met	hod: El	PA 8260		******
QC Batch Method:	EPA 8260	·	Analysis Des	cription: 82	260 MSV UST-WAT	ER	
Associated Lab Sam	ples: 6010734	7003					
METHOD BLANK:	890817		Matrix:	Water			
Associated Lab Sam	ples: 6010734	7003					
			Blank	Reporting			
Param	eter	Units	Result	Limit	Analyzed	Qualifiers	
Benzene		ug/L	ND	1.0	10/13/11 16:39		-
Ethylbenzene		ug/L	ND	1.0	10/13/11 16:39		
Toluene		ug/L	ND	1.0	10/13/11 16:39		
Xylene (Total)		ug/L	ND	3.0	10/13/11 16:39		
1,2-Dichloroethane-o	14 (S)	%	97	82-119	10/13/11 16:39		
4-Bromofluorobenze	ne (S)	%	96	87-113	10/13/11 16:39		
Dibromofluorometha	ne (S)	%	94	86-112	10/13/11 16:39		
Toluene-d8 (S)		%	108	90-110	10/13/11 16:39		

LABORATORY CONTROL SAMPLE: 890818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.7	93	82-117	
Ethylbenzene	ug/L	20	21.7	108	79-121	
Toluene	ug/L	20	21.2	106	80-120	
Xylene (Total)	ug/L	60	63.7	106	79-120	
1,2-Dichloroethane-d4 (S)	%			96	82-119	
4-Bromofluorobenzene (S)	%			99	87-113	
Dibromofluoromethane (S)	%			97	86-112	
Toluene-d8 (S)	%			108	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPLICAT	E: 89081	9		890820							
	60	107626002	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Мах	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/L	- ND	20	20	17.8	18.0	89	90	58-139	1	21	
Ethylbenzene	ug/L	ND	20	20	21.5	21.1	108	106	56-138	2	19	
Toluene	ug/L	ND	20	20	21.1	20.8	106	104	59-140	2	19	
Xylene (Total)	ug/L	. ND	60	60	62.8	62.8	105	105	52-146	0	19	
1,2-Dichloroethane-d4 (S)	%						93	96	82-119			
4-Bromofluorobenzene (S)	%						98	95	87-113			
Dibromofluoromethane (S)	%						94	96	86-112			
Toluene-d8 (S)	%						109	105	90-110			
Preservation pH		1.0			1.0	1.0				0		

Date: 10/18/2011 03:44 PM

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Project:	FLORA VISTA N	0. 1								
Pace Project No.:	60107347									
QC Batch:	WETA/17924		Analysis Me	ethod:	EPA 300.0	•			_	
QC Batch Method:	EPA 300.0		Analysis De	escription:	300.0 IC A	nions				•
Associated Lab Sar	nples: 6010734	7001, 60107347002,	60107347003,	60107347004						
METHOD BLANK:	891580		Matrix	: Water						<u> </u>
Associated Lab Sar	nples: 6010734	7001, 60107347002,	60107347003,	60107347004						
Bosor	notor	Lipita	Blank	Reporting	4.50	hurod	Qualifiara			
Sulfate		 ma/l	ND	Luma	1.0 10/14/					
Gunate			112		1.0 10/14/	11 10.02				
METHOD BLANK:	892363		Matrix	: Water						
Associated Lab Sar	nples: 6010734	7001, 60107347002,	60107347003,	60107347004						
			Blank	Reporting						
Parar	neter	Units	Result	Limit	Ana	alyzed	Qualifiers	_		
Sulfate		mg/L	ND	, , , , , , , , , , , , , , , , , , ,	1.0 10/15/	11 14:00				
METHOD BLANK:	892836		Matrix	: Water		•			_	
Associated Lab Sar	nples: 6010734	7001, 60107347002,	60107347003,	60107347004						
			Blank	Reporting						
Parar	neter	Units	Result	Limit	Ana	alyzed	Qualifiers	_		
Sulfate		mg/L	ND		1.0 10/16/	11 08:35				
METHOD BLANK:	893264		Matrix	: Water						
Associated Lab San	nples: 6010734	7001, 60107347002,	60107347003,	60107347004						
			Blank	Reporting						
Paran	neter	Units	Result	Limit	Ana	lyzed	Qualifiers	_		
Sulfate		mg/L	ND		1.0 10/17/ ⁻	11 14:24				
		801581								
LABORATORY COL	TROE OAMI EE.	091001	Snike	LCS	LCS	% R6			••	
Paran	neter	Units	Conc.	Result	% Rec	Limi	ts Qu	alifiers		· •
Sulfate		mg/L	5	4.9	(98 9	90-110			
LABORATORY COM		892837						<u> </u>		
			Spike	LCS	LCS	% Re	ec			
Paran	neter	Units	Conc.	Result	% Rec	Limit	ts Qu	alifiers		
Sulfate		mg/L	5	4.7		94 9	90-110			

Date: 10/18/2011 03:44 PM

REPORT OF LABORATORY ANALYSIS

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Project:	FLORA VISTA N	IO. 1											
Pace Project No.:	60107347												
LABORATORY CO	NTROL SAMPLE:	89326	5										<u> </u>
Para	neter	ι	Jnits	Spike Conc.	LCS Rest	6 ult	LCS % Rec	% Rec Limits	; Qi	ualifiers			
Sulfate		mg/L		5		5.4	107	90	-110		-		
MATRIX SPIKE & M	ATRIX SPIKE DU	JPLICATE	: 89158	2 MS	MSD	891583							
Parame	ter	6010 Units	07157001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg	j/L	26000	50000	50000	72000	72400	92	93	61-119	1	10	
MATRIX SPIKE SA	MPLE:	891584	4										
Parar	neter	· (Jnits	601073 Res	47002 ult	Spike Conc.	MS Result	M % F	S _. Rec	% Rec Limits		Qualif	iers
Sulfate		mg/L			160	50	2	14	108	61-	119		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: FLORA VISTA NO. 1

Pace Project No.: 60107347

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

BATCH QUALIFIERS

Batch: MSV/40757

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

Batch: MSV/40758

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

Batch: MSV/40798

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

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

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

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FLORA VISTA NO. 1 Pace Project No.: 60107347

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60107347001	GW-074926-092911-CM-006	EPA 3010	MPRP/15527	EPA 6010	ICP/13478
60107347002	GW-074926-092911-CM-007	EPA 3010	MPRP/15527	EPA 6010	ICP/13478
60107347003	GW-074926-092911-CM-008	EPA 3010	MPRP/15527	EPA 6010	ICP/13478
60107347004	GW-074926-092911-CM-009	EPA 3010	MPRP/15527	EPA 6010	ICP/13478
60107347001	GW-074926-092911-CM-006	EPA 8260	MSV/40757		
60107347002	GW-074926-092911-CM-007	EPA 8260	MSV/40757		
60107347003	GW-074926-092911-CM-008	EPA 8260	MSV/40858		
60107347004	GW-074926-092911-CM-009	EPA 8260	MSV/40758		
60107347004	GW-074926-092911-CM-009	EPA 8260	MSV/40798		
60107347005	GW-074926-092911-CM-010	EPA 8260	MSV/40758		
60107347006	TB-092911-001	EPA 8260	MSV/40758		
60107347001	GW-074926-092911-CM-006	EPA 300.0	WETA/17924		
60107347002	GW-074926-092911-CM-007	EPA 300.0	WETA/17924		
60107347003	GW-074926-092911-CM-008	EPA 300.0	WETA/17924		
60107347004	GW-074926-092911-CM-009	EPA 300.0	WETA/17924		

Date: 10/18/2011 03:44 PM

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LECAL DOCUMENT. All relevant fields must be completed accurately.

www.pecelabs.com				
Section A Regulared Client Information:	Section B Required Project Information:	Section C	•	Page: of
Company: CRA	Report To: Christine Mathews	Attention: ENFOS]	L
Address: 6121 Indian School Rd NE, Ste 200	Copy To: Kelly Blanchard, Angela Bown	Company Name:	REGULATORY AGENCY	r 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997
Albequerque, NM 87110		Address:		
Email To: cmathews@craworld.com	Purchase Order No.:	Paca Quote Referance:		OTHER
Phone: (505)884-0672 Fax: (505)884-4932	Project Name: Flora Vista No. 1	Pace Project Colleen Koporc	Site Location	
Requested Due Date/TAT:	Project Number: 074926	Pace Profile #: 5341, 5	STATE:	'— <i>\////////////////////////////////////</i>
		Requested	Analysis Filtered (Y/N)	
Section D Valid Matrix Co Required Client Information MATRIX DRIVATER WATER WATER	vodes fill fill code 9 6 DW 8 0 WT 8 0			
	VWW P G COMPOSITE COMPOSITE EPOGRAB	COLLEC RRS St		ne (Y/N)
(A-Z, 0-9 /) AIR Sample IDs MUST BE UNIQUE TISSUE		Served Served Janol Dol STEX	Sulfate	al Character
		SAMPL	300.00	Pace Project No./ Lab I.D.
40-014926-017911-711	1-006 W/Cz 9:29.11 1145		X 18P3F-5,18P3	u 306974 DI
$\frac{2}{3}$ $\frac{1}{3}$ $\frac{1}$	- 0.9 where - 9.9 where - 9.			DL DL
4 AW - 074976-092911-0	N-09 NT G 9.29.11 1310			
5 GW-074926-092911-Cr	M-010 M G 979.1 1300	3 X X		N Di
• TB-092911- 001	WT 9.29.11 1320		2,069	Ad CIB) OBC
1			┼╍┼╌┼╌┼╌┥	
		╶╋╌╫╋╋╋╋╋		
10				
11				
12				
	RELINQUISHED BY / AFFILIATION	TIME ACCEPTED BY / AFFILIATION	DATE TIME	SAMPLE CONDITIONS
The Thetals were filtered	A Change (Water 1/30/	1730 E. Brochett	1011 0800	1.6 Y Y Y
in the field				
	SAMPLER NAME AND SIGNA		I	
] }		R: ANISTINE, ALAHEUS	alzahi	Temp in *(teceived c lce (Y/N) stooler (Y/N cooler (Y/N)
2	JONATURE OF SAMPL	MUMARI MUMANA	_ yoy	
*Important Note: By signing this form you are accepting to the second se	Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per mor	htor any invoices not paid within 30 days.	. 1	F-ALL-Q-020rev.08, 12-Oct-2007

. .

1.0.0.1

Project #	Sample Con	dition	Upon Receipt			
Courter: Project # OF OF Courter: Project # OF OF Custody Seal on Cooler/Box Present: Pres No Seals intact: Pres No Packing Materia: Bubble Wap Bubble Bags Proam No Edited Seals intact: Pres No Courter: Pres Bubble Wap Bubble Bags Proam No Edited Seals No Cooler/Box Present: Pres No Seanples on loc, cooling process has begun Cooler Temperature: 1-0 Continents: Dets and Initials of preson agemining ortents:	Pace Analytical [®] Client Name: 0.0	^		Drojoot #	10007647	
Courier: Image: Star Star Star Star Star Star Star Star		<u>R</u>		Project #_	011 911	
Tracking #: C1/2 2033 1,5/H2 Pace Shipping Label Used? Yes No Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Packing Material: Bubble Wrap Bubble Bags Droam None Dther Presenture: I-O Contents Samples on ice, cooling process has begun Cooler Temperature: I-O Comments: Samples on ice, cooling process has begun Cooler Temperature: I-O Comments: Date and Initiate of Person egamining contents: Chain of Custody filled out: If Yes No INA Samples on ice, cooling process has begun Chain of Custody filled out: If Yes No INA Samples and initiate of Person egamining contents: If IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		ercial	Pace Other	Optic	onal	
Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Proj. Name: TOTP: TotPacking Material: Bubble Wrap Bubble Bags Foam None Dther Samples on ice, cooling process has begun Cooler Temperature Studie Babos Results to 5°C Comments: Comments: Contents: Date and Initials of person assmining contents: Date assmining contents: Date and Initials of person assmining contents: Date and Initials of person assmining contents: Date and Initials of person assmining contents: Date assmining contents: Date and Initials of person assmined in the Initial Initial Initia Initial Initial Initia Init	Tracking #: <u>676803375942</u> Pace Shipping Lat	bel Used	1? Yes	No Proj.	Due Date: 161214	
Packing Material: Bubble Wrap Bubble Bags Foam None Dther Thermometer Used: 1.0 Date and Initials of person exemining contents: Date and Initials of person exemining contents: Date and Initials of person exemining contents: Chain of Custody present: 0.00 0.00 0.00 0.00 Date and Initials of person exemining contents: Chain of Custody relinquished: 0.00 0.00 0.00 0.00 0.00 Samples arrived within holding time: 0.00 0.00 0.00 0.00 0.00 Sufficient volume: 0.00 0.00 0.00 0.00 0.00 0.00 Sufficient volume: 0.00 0.00 0.00 0.00 0.00 0.00 Pace containers used: 0.00 0.00 0.00 0.00 0.00 0.00 Indicate: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Pace containers used: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 </td <td>Custody Seal on Cooler/Box Present: Ves 🗌 No</td> <td>Seals</td> <td>intact: Yes</td> <td>] No</td> <td></td> <td></td>	Custody Seal on Cooler/Box Present: Ves 🗌 No	Seals	intact: Yes] No		
Thermometer Used: Type of Ice: Yet Blue None Samples on ice, cooling process has begun Cooler Temperature: I-0 Comments: Onte and Initials of preson esamining contents: Date and Initials of preson esamining contents: Chain of Custody prisent: Origonal Present: Origonal Present: Origonal Present: Origonal Present: Chain of Custody prisent: Origonal Present: Origonal Present: Origonal Present: Origonal Present: Sampler name & signature on COC: Origonal Present: Origonal Present: Origonal Present: Origonal Present: Sampler name & signature on COC: Origonal Present: Origonal Present: Origonal Present: Origonal Present: Sampler name & signature on COC: Origonal Present: Origonal Present: Origonal Present: Origonal Present: Sampler name & signature on COC: Origonal Present: Origonal Present: Origonal Present: Origonal Present: Origonal Present: Sample sample labels Sample Sam	Packing Material: Bubble Wrap Bubble Bags	oam	None Dther			
Cooler Temperature: 1.0 Dete and Initiate of person examining contents: Chain of Custody present: 0xfs 0xfs 0xfs 0xfs Chain of Custody present: 0xfs 0xfs 0xfs 0xfs 0xfs Sampler name & signature on COC: 0xfs	Thermometer Used:/ T-191 / T-194 Type of Ice	: Wet	Blue None	Samples on ice,	cooling process has begun	
Temperature should be above freezing to 5°C Comments: Contents: Conten	Cooler Temperature:). (0	/		Date and Initiale	of person examining	
Chain of Custody present:	Temperature should be above freezing to 6°C		Comments:	contents: 101		
Chain of Custody filled out: Image: Second Seco	Chain of Custody present:		1.			
Chain of Custody relinquished:	Chain of Custody filled out:	□n/A	2.			
Sampler name & signature on COC: Dres DNo DNo A. Samples arrived within holding time: Dres DNo DNo 5. Short Hold Time analyses (<72hr):	Chain of Custody relinquished:		3.			
Samples arrived within holding time: ØYes INA 5. Short Hold Time analyses (<72hr):	Sampler name & signature on COC:		4			
Short Hold Time analyses (<72hr):	Samples arrived within holding time:		5			
Rush Turn Around Time requested: IVes INVA 7. Sufficient volume: IVes INVA 8. Correct containers used: IVes INVA 9. -Pace containers used: IVes INVA 9. -Pace containers used: IVes INVA 9. Containers intact: IVes INVA 10. Unpreserved 5035A soils frozen w/in 48hrs? IVes INVA 11. Filtered volume received for dissolved tests IVes INVA 12. Sample tabels match COC: IVes INVA 13. -Includes date/time/ID/analyses Matrix. IVes INVA All containers needing preservation have been checked. IVes INVA All containers needing preservation are found to be in pomplance with EPA recommendation. IVes INVA Strengthons: IVA. Initial when completed preservative Initial when completed preservative Frip Blank lot # (if purchased): IVes INVA IS. Initial when completed preservative Frip Blank lot # (if purchased): IVes INVA IS. Initial when completed preservative	Short Hold Time analyses (<72hr):	⊡n/a	6			
Sufficient volume: Image: Suffic	Rush Turn Around Time requested:	□n/A	7			
Correct containers used:	Sufficient volume:	⊡n/A	8			
Pace containers used: Pres INo INVA Containers intact: Pres INo INVA 10. Unpreserved 5035A soils frozen w/in 48hrs? Ves INo INVA 11. Filtered volume received for dissolved tests Ves INvo INVA 12. Sample labels match COC: Pres INo INVA 13Includes date/time/ID/analyses Matrix: III Includes date/time/ID/analyses III Includes date/time/ID/analyses IIII Includes date/time/ID/analyses IIII Includes date/IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Correct containers used:	□n/A	9.			
Containers intact: Image: Second	-Pace containers used: DYes DNo	⊡n/A				_
Unpreserved 5035A soils frozen w/in 48hrs? IYes INo IN/A 11. Filtered volume received for dissolved tests IYes INo IV/A 12. Sample labels match COC: IYes INo IN/A 13. Includes date/time/ID/analyses Matrix: Vice containers needing preservation have been checked. IYes INo IN/A 14. Ni containers needing preservation are found to be in IYes INo IN/A 14. Ni containers needing preservation are found to be in IYes INo IN/A 14. Ni containers needing preservation on the beam of the	Containers intact: ZYes DNo	⊡n/A	10			
Filtered volume received for dissolved tests IYes INo III. Sample labels match COC: IYes INo III. -Includes date/time/ID/analyses Matrix: III. All containers needing preservation have been checked. IYes INo III. All containers needing preservation have been checked. IYes INo III. All containers needing preservation are found to be in compliance with EPA recommendation. III. III. Sexeptions: VeA. coliform, TOC, 0&G, Wi-DRO (water). IVes INo III. Sexeptions: VeA. coliform, TOC, 0&G, Wi-DRO (water). IVes INo III. Present: IVes INo INI/A IS. Present: IVes INo INI/A IS. Paterolitics IVes INo INI/A IS. Present: IVes INo INI/A IS. Paterolitics IVes INo INI/A IS. Present: IVes INo INI/A IS. Project sampled in USDA Regulated Area: IVes INo INi/A IT. List Sta	Unpreserved 5035A soils frozen w/in 48hrs?		11	·····		
Sample labels match COC: Image: I	Filtered volume received for dissolved tests		12		-	
-Includes date/time/ID/analyses Matrix:	Sample labels match COC:	⊡n/a	13.			
All containers needing preservation have been checked.	-Includes date/time/ID/analyses Matrix:			·		
All containers needing preservation are found to be In preservation.	All containers needing preservation have been checked.	⊡n/A	14.			
Exceptions: VPA. coliform, TOC, 0&G, WI-DRO (water), Prenofics Prenofics Prenofics Prinenolics Prinenolics <	All containers needing preservation are found to be in preservation are found to be in preservation.	□n/A				
Phenolics Completed	Exceptions: V9A, coliform, TOC, O&G, Wi-DRO (water),		Initial when	Lot # of added	· · · · · · · · · · · · · · · · · · ·	
Imp Blank present: Pace Trip Blank lot # (if purchased):			completed	preservative		
Pace Irip Blank lot # (if purchased): Court < c	I rip Blank present:	LIN/A	15.			
Headspace in VOA viais (>6mm): LiYes ØNo LiN/A 16. Project sampled in USDA Regulated Area: DYes DNo ØN/A 17. List State: Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N Person Contacted: Date/Time:	Pace I rip Blank lot # (if purchased): COU CO		10			
Project sampled in USDA Regulated Area: Project sampled in USDA Regulated Area: Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N Person Contacted: Comments/ Resolution: Comments/ Resolution:	Headspace in VUA viais (>6mm):	LIN/A	16.		•	
Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N Person Contacted: Comments/ Resolution: Comments/ Resolution:			17 Liet State:		/.a	
Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N Person Contacted: Date/Time: Comments/ Resolution:		A.1110		<u></u>		
Person Contacted: Date/Time: Comments/ Resolution:	Client Notification/ Resolution: Copy COC to Client?	Y	/ (N)	Field Data Requi	red? Y / N	
	Commente / Recelution	Date/T	Ime:			ſ
	Comments/ Resolution:					
		·····	,,,,,,,,,			
				<u> </u>		
Project Manager Review: DKM Date: 10[3/11	Project Manager Review; DKM		······································	Date:	1013/11	

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

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

ce Analytical

January 04, 2012

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

RE: Project: FLORA VISTA NO. 1 (074926) Pace Project No.: 60112337

Dear Christine Matthews:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2011. 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,

ANA CECUISTE

Anna Custer

anna.custer@pacelabs.com Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

 Project:
 FLORA VISTA NO. 1 (074926)

 Pace Project No.:
 60112337

Kansas Certification IDs

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project:	FLORA VISTA NO. 1 (074926)
Pace Project No.:	60112337

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60112337001	GW-074926-121411-CB-MW-1	Water	12/14/11 15:10	12/16/11 09:00
60112337002	GW-074926-121411-CB-MW-2	Water	12/14/11 16:15	12/16/11 09:00
60112337003	GW-074926-121411-CB-MW-3	Water	12/14/11 16:30	12/16/11 09:00
60112337004	GW-074926-121411-CB-MW-4	Water	12/14/11 15:25	12/16/11 09:00
60112337005	GW-074926-121411-CB-DUP	Water	12/14/11 15:30	12/16/11 09:00
60112337006	TB-074926-121411-TB1	Water	12/15/11 09:00	12/16/11 09:00

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SAMPLE ANALYTE COUNT

 Project:
 FLORA VISTA NO. 1 (074926)

 Pace Project No.:
 60112337

Lab ID	Sample ID	Method	Analysts	Reported
60112337001	GW-074926-121411-CB-MW-1	EPA 6010	JDH	2
•		EPA 8260	PRG, RNS	9
		EPA 300.0	JML	1
60112337002	GW-074926-121411-CB-MW-2	EPA 6010	JDH	2
		EPA 8260	RNS	9
		EPA 300.0	JML	1
60112337003	GW-074926-121411-CB-MW-3	EPA 6010	JDH	2
		EPA 8260	RNS	9
		EPA 300.0	JML	1
60112337004	GW-074926-121411-CB-MW-4	EPA 6010	JDH	2
		EPA 8260	RNS	9
		EPA 300.0	JML	1
60112337005	GW-074926-121411-CB-DUP	EPA 8260	RNS	9
60112337006	TB-074926-121411-TB1	EPA 8260	RNS	9

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1 (074926) Pace Project No.: 60112337

Method: EPA 6010

 Description:
 6010 MET ICP, Dissolved

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

 Date:
 January 04, 2012

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 with any exceptions noted below.

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project:FLORA VISTA NO. 1 (074926)Pace Project No.:60112337

Method: EPA 8260

 Description:
 8260 MSV UST, Water

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

 Date:
 January 04, 2012

General Information:

6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

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

Surrogates:

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

QC Batch: MSV/42749

- S0: Surrogate recovery outside laboratory control limits.
 - GW-074926-121411-CB-MW-3 (Lab ID: 60112337003)
 - 4-Bromofluorobenzene (S)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: MSV/42673

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

QC Batch: MSV/42739

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

QC Batch: MSV/42749

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1 (074926) Pace Project No.: 60112337

Method: EPA 8260 Description: 8260 MSV UST, Water

Client:COP Conestoga-Rovers & Associates, Inc. NMDate:January 04, 2012

Analyte Comments:

QC Batch: MSV/42673

B: Analyte was detected in the associated method blank.

• GW-074926-121411-CB-MW-2 (Lab ID: 60112337002)

Ethylbenzene

•GW-074926-121411-CB-MW-4 (Lab ID: 60112337004)

Ethylbenzene

QC Batch: MSV/42749

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.

• GW-074926-121411-CB-MW-3 (Lab ID: 60112337003)

4-Bromofluorobenzene (S)

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1 (074926) Pace Project No.: 60112337

Method:EPA 300.0Description:300.0 IC Anions 28 DaysClient:COP Conestoga-Rovers & Associates, Inc. NMDate:January 04, 2012

General Information:

4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

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P ace Analytical

Project: FLORA VISTA NO. 1 (074926)

Pace Project No.: 60112337

Sample: GW-074926-121411-CB- MW-1	Lab ID:	60112337001	Collected	d: 12/14/11	15:10	Received: 12/	16/11 09:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytica	I Method: EPA 6	6010 Prepar	ration Meth	od: EPA	A 3010			
Iron, Dissolved	25400	ug/L	50.0	6.0	1	12/22/11 09:00	12/23/11 10:40	7439-89-6	
Manganese, Dissolved	945	ug/L	5.0	0.90	1	12/22/11 09:00	12/23/11 10:40	7439-96-5	
8260 MSV UST, Water	Analytica	I Method: EPA 8	260						
Benzene	2310	ug/L	25.0	1.2	25		12/28/11 02:44	71-43-2	
Ethylbenzene	508	ug/L	5.0	0.50	5		12/22/11 14:19	100 -41-4	
Toluene	5.5	ug/L	5.0	0.50	5		12/22/11 14:19	108-88-3	
Xylene (Total)	3930	ug/L	75.0	4.5	25		12/28/11 02:44	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	97 9	%	86-112		5		12/22/11 14:19	1868-53-7	
Toluene-d8 (S)	101 9	%	90-110		5		12/22/11 14:19	2037-26-5	
4-Bromofluorobenzene (S)	103 9	%	87-113		5		12/22/11 14:19	460-00-4	
1,2-Dichloroethane-d4 (S)	104 (%	82-119		5		12/22/11 14:19	17060-07-0	
Preservation pH	1.0		1.0	0.10	5		12/22/11 14:19		
300.0 IC Anions 28 Days	Analytica	I Method: EPA 3	00.0						
Sulfate	13.2 (ng/L	1.0	0.076	1		12/29/11 19:56	14808-79-8	

Date: 01/04/2012 11:56 AM

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Project: FLORA VISTA NO. 1 (074926)

Pace Project No.: 60112337

Sample: GW-074926-121411-CB- MW-2	Lab ID: 60112337002		Collected: 12/14/11 16:15			Received: 12/	16/11 09:00 Ma	atrix: Water	
			Report			Ň			
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytica	al Method: EPA 6	010 Prepar	ation Meth	od: EPA	3010			
Iron, Dissolved	13.3J	ug/L	50.0	6.0	1	12/22/11 09:00	12/23/11 10:42	7439-89-6	
Manganese, Dissolved	2.2J	ug/L	5.0	0.90	1	12/22/11 09:00	12/23/11 10:42	7439-96-5	
8260 MSV UST, Water	Analytica	al Method: EPA 8	260						
Benzene	0.31J	ug/L	1.0	0.040	1		12/22/11 14:35	71-43-2	
Ethylbenzene	0.20J	ug/L	1.0	0.10	1		12/22/11 14:35	100-41-4	В
Toluene	ND	ug/L	1.0	0.10	1		12/22/11 14:35	108-88-3	
Xylene (Total)	2.2J	ug/L	3.0	0.30	1		12/22/11 14:35	1330-20-7	
Surrogates		•							
Dibromofluoromethane (S)	100	%	86-112		1		12/22/11 14:35	1868-53-7	
Toluene-d8 (S)	104	%	90-110		1		12/22/11 14:35	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-113		1		12/22/11 14:35	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	82-119		- 1		12/22/11 14:35	17060-07-0	
Preservation pH	1.0		1.0	0.10	1		12/22/11 14:35		
300.0 IC Anions 28 Days	Analytica	al Method: EPA 3	00.0						
Sulfate	135	mg/L	20.0	1.5	20		12/29/11 03:25	14808-79-8	

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Project: FLORA VISTA NO. 1 (074926)

Pace Project No.: 60112337

Sample: GW-074926-121411-CB- MW-3	-121411-CB- Lab ID: 60112337003 Collected: 12/14/11 16:30 Received: 12/16/11 09:00 Matrix: \					atrix: Water			
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	010 Prepara	ation Meth	od: EPA	3010			
Iron, Dissolved	28.8 J u	g/L	50.0	6.0	1	12/22/11 09:00	12/23/11 10:45	7439-89-6	
Manganese, Dissolved	20.7 u	g/L	5.0	0.90	1	12/22/11 09:00	12/23/11 10:45	7439-96-5	
8260 MSV UST, Water	Analytical	Method: EPA 8	260						
Benzene	ND u	g/L	1.0	0.040	1		12/28/11 16:50	71-43-2	
Ethylbenzene	ND u	g/L	1.0	0.10	1		12/28/11 16:50	100-41-4	
Toluene	ND u	g/L	1.0	0.10	1		12/28/11 16:50	108-88-3	
Xylene (Total)	ND u	g/L	3.0	0.30	1		12/28/11 16:50	1330-20-7	
Surrogates		•							
Dibromofluoromethane (S)	107 %	, . 0	86-112		1		12/28/11 16:50	1868-53-7	
Toluene-d8 (S)	102 %	, D	90-110		1		12/28/11 16:50	2037-26-5	
4-Bromofluorobenzene (S)	84 %	, D	87-113		1		12/28/11 16:50	460-00-4	P2,S0
1,2-Dichloroethane-d4 (S)	116 %	r . D	82-119		1		12/28/11 16:50	17060-07-0	
Preservation pH	1.0		1.0	0.10	1		12/28/11 16:50		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0						
Sulfate	136 m	ng/L	20.0	1.5	20		12/29/11 03:42	14808-79-8	

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Project: FLORA VISTA NO. 1 (074926)

Pace Project No.: 60112337

Sample: GW-074926-121411-CB- MW-4	Lab ID: 60112337004		Collected: 12/14/11 15:25 F		Received: 12/	16/11 09:00 Ma	itrix: Water		
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytica	al Method: EPA 6	010 Prepa	ration Meth	od: EPA	3010			
Iron, Dissolved	2620	ug/L	50.0	6.0	1	12/22/11 09:00	12/23/11 10:47	7439-89-6	
Manganese, Dissolved	4580	ug/L	5.0	0.90	1	12/22/11 09:00	12/23/11 10:47	7439-96-5	
8260 MSV UST, Water	Analytica	al Method: EPA 8	260						
Benzene	101	ug/L	1.0	0.040	1		12/22/11 15:08	71-43-2	
Ethylbenzene	44.3	ug/L	1.0	0.10	1		12/22/11 15:08	100-41-4	в
Toluene	ND	ug/L	1.0	0.10	1		12/22/11 15:08	108-88-3	
Xylene (Total)	378	ug/L	3.0	0.30	1		12/22/11 15:08	1330-20-7	
Surrogates		-							
Dibromofluoromethane (S)	92	%	86-112		1		12/22/11 15:08	1868-53-7	
Toluene-d8 (S)	108	%	90-110		1		12/22/11 15:08	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-113		1		12/22/11 15:08	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	82-119		1		12/22/11 15:08	17060-07-0	
Preservation pH	1.0		1.0	0.10	1		12/22/11 15:08	·	
300.0 IC Anions 28 Days	Analytica	I Method: EPA 3	00.0						
Sulfate	81.2	mg/L	20.0	1.5	20		12/29/11 03:58	14808-79-8	

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ANALYTICAL RESULTS

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Project: FLORA VISTA NO. 1 (074926)

Pace Project No.: 60112337

Sample: GW-074926-121411-CB- DUP	Lab ID: 601123	37005 Collecte	d: 12/14/1 [·]	1 15:30	Received: 12	2/16/11 09:00 M	atrix: Water	
Deveryofers		Report	MDI	DE	D 1	A 1		
Parameters			MDL		Prepared	Analyzed	CAS NO.	
8260 MSV UST, Water	Analytical Method:	EPA 8260						
Benzene	104 ug/L	5.0	0.20	5		12/22/11 15:24	71-43-2	
Ethylbenzene	43.7 ug/L	5.0	0.50	5		12/22/11 15:24	100-41-4	
Toluene	, 4.2J ug/L	5.0	0.50	5		12/22/11 15:24	108-88-3	
Xylene (Total)	[′] 372 ug/L	15.0	1.5	5		12/22/11 15:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101 %	86-112		5		12/22/11 15:24	1868-53-7	
Toluene-d8 (S)	105 %	90-110		5		12/22/11 15:24	2037-26-5	
4-Bromofluorobenzene (S)	104 %	87-113		5		12/22/11 15:24	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %	82-119		5		12/22/11 15:24	17060-07-0	
Preservation pH	1.0	1.0	0.10	5		12/22/11 15:24		

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ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1 (074926)

Pace Project No.: 60112337

Sample: TB-074926-121411-TB1	Lab ID: 6	60112337006	Collected	: 12/15/1	09:00	Received: 12	2/16/11 09:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical N	/lethod: EPA 8	260						
Benzene	0.060J ug	/L	1.0	0.040	1		12/22/11 15:41	71-43-2	
Ethylbenzene	ND ug	/L	1.0	0.10	1		12/22/11 15:41	100-41-4	
Toluene	ND ug	/L	1.0	0.10	1		12/22/11 15:41	108-88-3	
Xylene (Total)	ND ug	/L	3.0	0.30	1		12/22/11 15:41	1330-20-7	
Surrogates	-								
Dibromofluoromethane (S)	100 %		86-112		1		12/22/11 15:41	1868-53-7	
Toluene-d8 (S)	103 %		90-110		1		12/22/11 15:41	2037-26-5	
4-Bromofluorobenzene (S)	[.] 101 %		87-113		1		12/22/11 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		82-119		1		12/22/11 15:41	17060-07-0	
Preservation pH	1.0		1.0	0.10	1		12/22/11 15:41		

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Project:	FLORA VI	STA NO. 1 (074	926)										
Pace Project No.:	60112337												
QC Batch:	MPRP/16	530		Analys	is Method:	E	PA 6010						
QC Batch Method:	EPA 3010	2		Analys	is Descript	tion: 6	010 MET Di	ssolved					
Associated Lab Sar	mples: 60	112337001, 60 ⁷	12337002	, 601123370	003, 60112	337004							
METHOD BLANK:	930306			Ň	Aatrix: Wa	ter							
Associated Lab Sar	mples: 60	112337001, 60 ⁻	12337002	, 601123370	003, 60112	337004							
				Blank	R	eporting							
Para	neter	L	Jnits	Result	t	Limit	Analyz	ed	Qualifiers				
Iron, Dissolved		ug/L			ND	50.0	12/23/11	09:58					
Manganese, Dissol	ved	ug/L			ND	5.0	12/23/11	09:58					
LABORATORY CO	NTROL SAM	1PLE: 930307	,										
				Spike	LCS	;	LCS	% Re	С				
Parar	neter	ι	Jnits	Conc.	Resu	lt	% Rec	Limite	s Q	ualifiers			
Iron, Dissolved		ug/L		10000		9770	98	8	0-120		-		
Manganese, Dissol	ved	ug/L		1000		992	99	80	0-120				
MATRIX SPIKE & N			: 93030	8		930309							
				MS	MSD								
		6011	2207001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parame	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Iron, Dissolved		ug/L	201	10000	10000	9880	9790	97	96	75-125	1	20	

1000

.

1260

1240

98

97 75-125

1 20

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Manganese, Dissolved

ug/L

278

1000

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Project:	FLORA \	/ISTA NO. 1 (074926)					
Pace Project No .:	6011233	7	•				
QC Batch:	MSV/42	2673	Analysis Meth	iod: E	PA 8260		
QC Batch Method:	EPA 82	60	Analysis Desc	ription: 82	260 MSV UST-WAT	ER	
Associated Lab Sam	ples: 6	60112337001, 60112337002,	60112337004, 60	112337005, 60	112337006		
METHOD BLANK:	930694	and the second	Matrix:	Water			
Associated Lab Sam	ples: 6	0112337001, 60112337002,	60112337004, 60	112337005, 60	112337006		
			Blank	Reporting			
Param	eter	Units	Result	Limit	Analyzed	Qualifiers	
Benzene		ug/L	ND	1.0	12/22/11 10:46		
Ethylbenzene		ug/L	0.16J	1.0	12/22/11 10:46		
Toluene		ug/L	0.12J	1.0	12/22/11 10:46		
Xylene (Total)		ug/L	ND	3.0	12/22/11 10:46		
1,2-Dichloroethane-d	4 (S)	%	102	82-119	12/22/11 10:46		
4-Bromofluorobenzer	1e (S)	%	99	87-113	12/22/11 10:46		
Dibromofluoromethar	ne (S)	%	99	86-112	12/22/11 10:46		

LABORATORY CONTROL SAMPLE: 930695

%

Toluene-d8 (S)

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.9	90	82-117	
Ethylbenzene	ug/L	20	18.7	93	79-121	
Toluene	ug/L	20	18.5	93	80-120	
Xylene (Total)	ug/L	60	59.7	99	79-120	
1,2-Dichloroethane-d4 (S)	%			101	82-119	
4-Bromofluorobenzene (S)	%			92	87-113	
Dibromofluoromethane (S)	%			97	86-112	
Toluene-d8 (S)	%			98	90-110	

103

90-110 12/22/11 10:46

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Project: F	LORA VISTA NO. 1 (0	74926)					
Pace Project No.: 6	0112337			•			
QC Batch:	MSV/42739		Analysis Met	hod: E	PA 8260		
QC Batch Method:	EPA 8260		Analysis Des	cription: 8	260 MSV UST-WAT	ER	
Associated Lab Sampl	les: 60112337001		18 - A				
METHOD BLANK: 9	32245		Matrix:	Water			
Associated Lab Sampl	les: 60112337001						
			Blank	Reporting			
Paramet	ter	Units	Result	Limit	Analyzed	Qualifiers	
Benzene	ug/L		ND	1.0	12/28/11 02:29		
Xylene (Total)	ug/L		ND	3.0	12/28/11 02:29		
1,2-Dichloroethane-d4	(S) %		104	82-119	12/28/11 02:29		
4-Bromofluorobenzene	e (S) %		102	87-113	12/28/11 02:29		
Dibromofluoromethane	e (S) %		107	86-112	12/28/11 02:29		
				00.440	40/00/44 00 00		

LABORATORY CONTROL SAMPLE: 932246

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/L		17.7	88	82-117	
Xylene (Total)	ug/L	60	52.0	87	79-120	
1,2-Dichloroethane-d4 (S)	%			104	82-119	
4-Bromofluorobenzene (S)	%			107	87-113	
Dibromofluoromethane (S)	%			106	86-112	
Toluene-d8 (S)	%			93	90-110	

Date: 01/04/2012 11:56 AM

REPORT OF LABORATORY ANALYSIS

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Project: Fl	LORA VISTA NO. 1 (074926)					
Pace Project No.: 60	0112337						
QC Batch:	MSV/42749		Analysis Mether	hod: EF	PA 8260		
QC Batch Method:	EPA 8260		Analysis Des	cription: 82	60 MSV UST-WAT	ER	
Associated Lab Sample	es: 60112337003						
METHOD BLANK: 93	32484		Matrix:	Water			
Associated Lab Sample	es: 60112337003						
			Blank	Reporting			
Paramet	er	Units	Result	Limit	Analyzed	Qualifiers	
Benzene		-	ND	1.0	12/28/11 16:34		
Ethylbenzene	ug/l	-	. ND	1.0	12/28/11 16:34		
Toluene	ug/L		ND	1.0	12/28/11 16:34		
Xylene (Total)	ug/L		ND	3.0	12/28/11 16:34		
1,2-Dichloroethane-d4	(S) %		116	82-119	12/28/11 16:34		
4-Bromofluorobenzene	(S) %		92	87-113	12/28/11 16:34		
Dibromofluoromethane	(S) %		106	86-112	12/28/11 16:34		
Toluene-d8 (S)	%		97	90-110	12/28/11 16:34		

LABORATORY CONTROL SAMP	LE: 932485			•		
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/L	20	19.8	99	82-117	
Ethylbenzene	ug/L	20	18.8	94	79-121	
Toluene	ug/L	20	20.6	103	80-120	
Xylene (Total)	ug/L	60	. 58.8	98	79-120	
1,2-Dichloroethane-d4 (S)	%			114	82-119	
4-Bromofluorobenzene (S)	%			95	87-113	
Dibromofluoromethane (S)	%			107	86-112	
Toluene-d8 (S)	%			108	90-110	

Date: 01/04/2012 11:56 AM

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Project:	FLORA VISTA	NO. 1 (074	926)										
Pace Project No.:	60112337									,			
QC Batch:	WETA/18800)		Analys	sis Method	: E	EPA 300.0						
QC Batch Method:	EPA 300.0			Analys	sis Descrip	tion: 3	300.0 IC Anio	ns					
Associated Lab Sar	nples: 60112:	337001, 60	112337002	, 60112337	003, 60112	2337004							
METHOD BLANK:	932563			1	Matrix: Wa	iter							
Associated Lab San	nples: 601123	337001, 60	112337002	, 60112337	003, 60112	2337004							
				Blan	(R	Reporting							
Paran	neter		Units	Resu	lt	Limit	Analyz	ed	Qualifiers				
Sulfate		mg/L			ND	1.(0 12/29/11 (00:06					
LABORATORY CON	NTROL SAMPLI	E: 93256	4	Snike	1.05		1.05	% Rec		,			
Paran	neter	I	Units	Conc.	Resu	ult	% Rec	Limits	Qı	alifiers			
Sulfate		mg/L		5		4.9	98	90)-110				
MATRIX SPIKE & M	IATRIX SPIKE D	OUPLICATE	: 93256	5		932566			<u> </u>				
				MS	MSD								
		601	12253001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Мах	
Paramet	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Sulfate	n	ng/L	95.8	50	50	144	146	97	100	61-119	1	10	
				·									
MATRIX SPIKE SAI	MPLE:	93256	7										
				601123	62006	Spike	MS	N	IS	% Rec			
Paran	neter		Jnits	Res	ult	Conc.	Result	%I	Rec	Limits		Qualif	iers
Sulfate		mg/L			186	100	28	39	104	61-	119		

Date: 01/04/2012 11:56 AM

REPORT OF LABORATORY ANALYSIS

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Analvtica www.pacelabs.com

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

QUALIFIERS

Project: FLORA VISTA NO. 1 (074926) 60112337

Pace Project No .:

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

BATCH QUALIFIERS

Batch: MSV/42673

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume. Batch: MSV/42739

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

Batch: MSV/42749

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

ANALYTE QUALIFIERS

в Analyte was detected in the associated method blank.

P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

S0 Surrogate recovery outside laboratory control limits.

Date: 01/04/2012 11:56 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	FLORA VISTA NO. 1 (074926)
Pace Project No.:	60112337

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112337001	GW-074926-121411-CB-MW-1	EPA 3010	MPRP/16530	EPA 6010	ICP/14221
60112337002	GW-074926-121411-CB-MW-2	EPA 3010	MPRP/16530	EPA 6010	ICP/14221
60112337003	GW-074926-121411-CB-MW-3	EPA 3010	MPRP/16530	EPA 6010	ICP/14221
60112337004	GW-074926-121411-CB-MW-4	EPA 3010	MPRP/16530	EPA 6010	ICP/14221
60112337001	GW-074926-121411-CB-MW-1	EPA 8260	MSV/42673		
60112337001	GW-074926-121411-CB-MW-1	EPA 8260	MSV/42739		
60112337002	GW-074926-121411-CB-MW-2	EPA 8260	MSV/42673		
60112337003	GW-074926-121411-CB-MW-3	EPA 8260	MSV/42749		
60112337004	GW-074926-121411-CB-MW-4	EPA 8260	MSV/42673		
60112337005	GW-074926-121411-CB-DUP	EPA 8260	MSV/42673		
60112337006	TB-074926-121411-TB1	EPA 8260	MSV/42673		
60112337001	GW-074926-121411-CB-MW-1	EPA 300.0	WETA/18800		
60112337002	GW-074926-121411-CB-MW-2	EPA 300.0	WETA/18800		
60112337003	GW-074926-121411-CB-MW-3	EPA 300.0	WETA/18800		
60112337004	GW-074926-121411-CB-MW-4	EPA 300.0	WETA/18800		

Date: 01/04/2012 11:56 AM

REPORT OF LABORATORY ANALYSIS

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Pace Analytical"

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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.

Section A Required Client Information:			Section Required	Section B Required Project Information:							Section C Invoice Information:										, Page:		1	of		/					
Company	CRA	· · · · · · · · · · · · · · · · · · ·	Report To	: Chri	istine	Mathews	s				Attent	tion:	ENF	OS														. .			
Address: 6121 Indian School Rd NE, Ste 200			Сору То:	Copy To: Kelly Blanchard, Angela Bown						Company Name:									REG	EGULATORY AGENCY											
	Albequerque	e, NM 87110	·								Addre	SS:						· · · ·			مت ذر " ا	NPDE	S I	- GI	ROUN	ID WA	TER	۳ ۵	RINKIN	G WAT	ER
Email To:	cmathews@	craworld.com	Purchase	Order	No.:	4515860	224				Pace (Quote									r	UST	Í	R	CRA	•	•	x o	THER	NHQ	CD_
Phone: (505)884-0672 Fax: (505)884-4932			Project N	Project Name: Flora Vista No. 1							Pace Project Alice Tracy									Site Location						V	Ì		1111		
Request	ed Due Date/TAT:	standard	Project N	umber:	074	926				_	Pace F	Profile f	* 551	4, 5								STA	TE:		NM					/////	
L		·····													-		L. :	Rea	ues	tèd /	Analy	/sis F	ilterë	d <i>il</i> 9/	N) 😳	V	Y///			/////	
	Section D Required Client Informa	Valid Matrix tion <u>MA1RIX</u>	Codes CODE	s to left)	(dMO)		COLL	ECTED		_			Pres	erva	tives		1 N/A					T									
ITEM #	SAMPL (A-Z, 0-5 Sample IDs MUST	LE ID WIEL WASE WATE PRODUCT SOUSOLD OL WIEL AR AR F BE UNIQUE TISSUE	WT R WW P SL OL WP AR OT TS	MATRIX CODE (see valid code:	SAMPLE TYPE (G=GRAB C=C	COMP		COMPO END/GI		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SU4 HNO3	HCI NaOH	Na ₂ S ₂ O ₃	Methanol	L Analysis Test	8260 BTEX		6010 Dissolved Fe & Mn	300.0 Sulfate					Residual Chlorine (Y/N)	(F	90 Pace P	1 2.' 'roject	337 No./ La), њ I.D.
1	GW-07492	6-121411-CB-M	1-1	WT	3			1244.11	1510		5	X		X				X		X	Х						BP	31	BP3	1.5 0	(asgh
1999, A. A. 1997, A. A.	6W-07492	6-121411-CB-M	IW-Z	WT	G			12.14.11	1615		5	X	X	x				X		X	\varkappa										1
3	GW-07492	6-121411-CB-1	11-3	WI	G			12.14.1	1630		5	X	<u> </u>	<u>× </u>	\bot		 	<u>×</u>		$ \langle$	X					·	\perp				
4	GW-07492	6-121411-CB-M	<u>W-4</u>	WT	6		<u> </u>	12.14.11	1525		5	X	<u> </u>	<u>x</u>	╶┼╌┥	\perp		<u> </u>		X	×			-	\downarrow		1		<u> </u>		-
5	<u>CW-074926</u>	-121411-06-1	<u>up</u>	M	19		<u> </u>	17.14.11	1530		3	\square		Щ.	44	_	- C	X	_		_				4. 4	_ <u> </u>	<u> </u>				<u></u>
6	TB-07492	6-121411- TB1		_fvT				12.13.1	0900		2	$\left \right $	-+-+	<u>x </u> _	╌┼╌┼		┦╿	_ X			-				+		┥──				V
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		AL COMMENTS		REL	INQUE	SHED BY /	AFFILIATI		DATE			I	3 20		ACC	EPTE	D BY /	AFFILL		N		DAT	E	TIM	E	<u>.</u>	<u>ــــــــــــــــــــــــــــــــــــ</u>	AMPLE	CONDI	TIONS	:
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З	*important Note: E	By signing this form you are accept	ing Pace's NET	130 day	paymer	nt terms and a	agreeing to l	ate charges of	1.5% per mo	onten to	r any in	volces	not paid v	vithin 3	30 dáys.											F-ALL	-Q-020r	rev.08,	12-Oct-	2007	
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Face Analytical Client Name: Cl2A NM Project # 61 12353 Courier: Creat Ex UPS UUPS UUPS Page Shipping Label User? Yes No Proj Due Date: 21/21/1 Custody Seal on Cooler/Box Present: Ares No Proj Due Date: 21/21/1 Proj Due Date: 21/21/1 Custody Seal on Cooler/Box Present: Ares No Proj Due Date: 21/21/1 Custody Seal on Cooler/Box Present: Ares No Proj Due Date: 21/21/1 Custody Seal on Cooler/Box Present: Ares No Proj Due Date: 21/21/1 Cooler Temperature: 2.1 Type of Ice Wel Blue None Samples on ice, cooling process has begun Cooler Temperature: 2.1 Type of Ice Wel Blue None Date and Initiate of perpon examining contents: Ale/2/11/2 Chain of Custody Present: 2/16 Mo< DwA 1. Chain of Custody Present: Ale/2/11/2 Ale/2/11/2 Chain of Custody Present: 2/16 Mo< DwA 5. Ale/2/11/2 Ale/2/11/2 Ale/2/11/2 Samples arive within holding time: Gres	San	nple Condition	Upon Receipt		
Courier: Client Name: Client Commercial Proce Optional Tracking #: MSS. Mill 3332 Pace Shipping Label Used? Yes No Custody Seal on Cooler/Box Present: Ves No Seals intact: Yes No Packing Material: Bubble Virap Bubble Was Samples on ice, cooling process has begun Date and Initials of person examining contents: Content	Pace Analytical [®]	OPCOA	. /A N		linn
Courier: [Fed Ex] UPS USPS Client Commercial Pace Dither Optional Tracking #: (12) Visit 3832 Pace Shipping Label User? Yes No Proj. Due Date: 12/19/1n Custody Seal on Coolar/Box Present: (Yes) No Seals intact: (Yes) No Packing Material: Bubble Ayrap Bubble Bags Foam None Samples on ice, cooling process has begun Cooler Temperature: Z.1 ** Thermometer Used: (12) (2) (10) (10) (10) (10) (10) (10) (10) (10		(121)		Project #	16551
Counter: Dree Dors Dors Collect Commercial Pace Shipping Label Used Proj. Due Date: 1/1/19/A Proj. Due Date: 1/19/17-19/A Custody Seal on Coder/Box Present: Pres No Seals intact: Pres No Packing Material: Bubble Wrap Bubble Bags Foam None Other Thermometer Used: 119/17-19/A Type of Ice Wet Blue None Bamples on ice, cooling process has begun Date and Initiats of person examining contents: 2/16/A Chain of Custody Present: Pres No Chain of Custody Riled out: Pres No Samples arrived within holding time: Pres No Sampler name & signature on COC: Pres No Sample Sampler S				Ontional	
Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Proj. Name: 77777 Packing Material: Bubble Wrap Bubble Bags Foam None Other Thermometer Used: 799/17-194 Type of to: Wet Blue None Samples on ice, cooling process has begun Cooler Temperature: Z-(Chain of Custody Present: Size No No A 1. Chain of Custody filed out: Size No No A 2. Chain of Custody filed out: Size No No A 3. Samples arrived within holding time: Size No No A 3. Samples arrived within holding time: Size No No A 5. Short Hold Time requested: Size No No A 7. Sufficient volume: Signature on COC: Size No No A 7. Sufficient volume: Signature on COC: Size No No A 7. Sufficient volume: Signature on COC: Size No No A 7. Sufficient volume: Signature on COC: Size No No A 7. Sufficient volume: Signature on COC: Size No No A 7. Sufficient volume: Signature on COC: Size No No A 7. Sufficient volume: Signature on COC: Size No No A 7. Sufficient volume: Signature on COC: Size No No A 8. Correct containers used: Size No No A 9. -Pace containers used: Size No No A 9. -Pace containers used: Size No No A 10. Unpreserved 5035A soils frozen w/in 48/hrs? Oreo No A 11. Filtered volume received for dissolved tests Size No No A 14. All containers needing preservation are found to be in completed stat/time/IDA analyses Matrix: Size No No A 14. All containers needing preservation are found to be in completed stat/time/IDA analyses Matrix: Size No No A 15. Face Trip Blank kot# (f purchased): Size No No A 16. Free No No A 16. Free Size No No A 16. Free Size No No A 17. List State: No No A 16. Freiget sampled in USDA Regulated Area: Yes No No No 17. List State: No No No 16.	Tracking #: \$986 JAN 3882 Pace	Shipping Label Used	PaceOther t? □ Yes □	No Proj. Due Da	te: 1/19/n
Packing Material: Bubble Wrap Bubble Bags Foam None Dther Thermometer Used: C11 Type of Ice Wet Blue None Samples on ice, cooling process has begun Date and Initials of person examining remperature should be above freezing to 6°C Comments: Date and Initials of person examining contents: Date and Initials of person examining contents: Chain of Custody present: Lyes No INA 1. Chain of Custody relinquished: Lyes No INA 2. Chain of Custody relinquished: Lyes No INA 3. Samples arrived within holding time: Cree Lyo INA 5. Short Hold Time analyses (<72hr):	Custody Seal on Cooler/Box Present: Yes		intact: Yes	Proj. Name:	
Thermometer Used:	Packing Material: Bubble Wrap Bubble F	Barrs Foam	None Dther		
Cooler Temperature: 2.1 Temperature should be above freezing to 6°C Comments: Chain of Custody present: Date and Initials of person examining contents: Chain of Custody filed out: Date and Initials of person examining contents: Chain of Custody filed out: Date and Initials of person examining contents: Chain of Custody filed out: Date and Initials of person examining contents: Chain of Custody filed out: Date and Initials of person examining contents: Sampler name & signature on COC: DVps Short Hold Time analyses (<72hr):	Thermometer Used: 7-191/T-194	Type of Ice: Wet		Samples on ice, cooling r	process has begun
Contents: Comments: contents: (24/6/11.1g) Chain of Custody present: Dyes No NA 1. Chain of Custody present: Dyes No NA 2. Chain of Custody filled out: Dyes No NA 2. Chain of Custody relinquished: Dyes No NA 3. Samples arrived within holding time: Dyes No NA 4. Samples arrived within holding time: Dyes No NA 5. Short Hold Time analyses (<72hr):	Cooler Temperature: Z-1	ispo or long the		Date and Initials of pers	on examining
Chain of Custody present: Yes INo 1. Chain of Custody filled out: Yes INo INvA 2. Chain of Custody relinquished: Yes INo INvA 3. Sampler name & signature on COC: Yes INo INvA 3. Samples arrived within holding time: Yes INo NivA 4. Samples arrived within holding time: Yes INo NivA 5. Short Hold Time analyses (<72hr):	Temperature should be above freezing to 6°C		Comments:	contents:(2/16/	Lb_
Chain of Custody filled out: IVes INo INo 2. Chain of Custody relinquished: IVes INo INA 3. Sampler name & signature on COC: IVes INo INA 4. Sampler name & signature on COC: IVes INo INA 4. Samples arrived within holding time: IVes INo INA 5. Short Hold Time analyses (<72hr):	Chain of Custody present:	Zyes □No □N/A	1.	·	
Chain of Custody relinquished: Image: Im	Chain of Custody filled out:		2.		
Sampler name & signature on COC: IVes INA 4. Samples arrived within holding time: IVes IVes IVA 5. Short Hold Time analyses (<72hr):	Chain of Custody relinquished:		3.	<u></u>	
Samples arrived within holding time: Image: Ima	Sampler name & signature on COC:		4		
Short Hold Time analyses (<72hr):	Samples arrived within holding time:	ZYes Diyo DN/A	5. /		
Rush Turn Around Time requested: Image: Simologic	Short Hold Time analyses (<72hr):	UYes Ding On/A	6.		
Sufficient volume: Image:	Rush Turn Around Time requested:	UYes DNo UNA	7.		
Correct containers used: Image: Set in the	Sufficient volume:	Yes INO IN/A	8.		
-Pace containers used: IVes No NVA Containers intact: IVes No NVA 10. Unpreserved 5035A soils frozen w/in 48hrs? IVes No INVA 11. Filtered volume received for dissolved tests IVes No INVA 12. Sample labels match COC: IVes INO INVA 13. -Includes date/time/ID/analyses Matrix: IVes INO INVA All containers needing preservation have been checked. IVes INO INVA All containers needing preservation are found to be in compliance with CPA recommendation. IVes INO IN/A Exception VA completed M Lot # of added Phenolics IVes INO IN/A Initial when completed Initial when compl	Correct containers used:	ØYes □No □N/A	9.		
Containers intact: IVes Iva 10. Unpreserved 5035A soils frozen w/in 48hrs? IVes Iva 11. Filtered volume received for dissolved tests IVes Iva 12. Sample labels match COC: IVes Iva 13. -Includes date/time/ID/analyses Matrix: Iva 14. All containers needing preservation have been checked. Ives Ives Iva All containers needing preservation are found to be in compliance with EPA recommendation. Ives Ives Invi/A Exceptions DA. colform, TOC, O&G, WI-DRO (water). Ives Invi/A 15. Phenolics Ives Ives Ives Ives Ives Trip Blank present: Ives Ives Ives Ives Ives Headspace in VOA vials (>6mm): Ives Ives Ives Ives Ives Ives Ives Project sampled in USDA Regulated Area: Ives Ives Ives Ives Ives Ives Ives Ives Ives	-Pace containers used:				
Unpreserved 5035A soils frozen w/in 48hrs? Yes No IN/4 I1. Filtered volume received for dissolved tests Yes No IN/4 I2. Sample labels match COC: If Yes No IN/4 I3. -Includes date/time/ID/analyses Matrix: Image: Containers needing preservation have been checked. If Yes No IN/A All containers needing preservation have been checked. If Yes No IN/A I4. All containers needing preservation are found to be in compliance with EPA recommendation. If Yes Ino In/A Exceptions Out-coliform, TOC, 0&G, WI-DRO (water), If Yes INo Initial when completed preservative Lot # of added preservative Trip Blank present: If Yes INo IN/A I5. Pace Trip Blank lot # (if purchased): If Yes INo IN/A I6. Project sampled in USDA Regulated Area: If Yes INo IN/A I7. List State: I/A	Containers intact:	Yes DNO DIVA	10.	. <u> </u>	······
Filtered volume received for dissolved tests Image: Second Se	Unpreserved 5035A soils frozen w/in 48hrs?	DYes DNO DNA	11.		
Sample labels match COC: Image: Sample labels match COC: I	Filtered volume received for dissolved tests	□Yes □No IZN/A	12.		
-Includes date/time/ID/analyses Matrix:	Sample labels match COC:		13.		
All containers needing preservation have been checked. Image: Second	-Includes date/time/ID/analyses Matrix:	INI			
All containers needing preservation are found to be in compliance with EPA recommendation. Exceptions: Via. coliform, TOC, O&G, WI-DRO (water), Ves No IN/A Exceptions: Via. coliform, TOC, O&G, WI-DRO (water), Ves No Completed Deservative Trip Blank present: Pres No No N/A 15. Pace Trip Blank lot # (if purchased): Headspace in VOA vials (>6mm): Over N/A 16. Project sampled in USDA Regulated Area: Over N/A 17. List State:	All containers needing preservation have been checked.		14.		
Exceptions Oracle coliform, TOC, O&G, WI-DRO (water), Ives Initial when completed description Lot # of added preservative description Phenolics Initial when completed description Initial when completed description Lot # of added preservative description Trip Blank present: Iffees INO IN/A 15. Pace Trip Blank lot # (if purchased): Image: Completed description Image: Completed description Image: Completed description Headspace in VOA vials (>6mm): Image: Completed description Image: Completed description Image: Completed description Project sampled in USDA Regulated Area: Image: Completed description Image: Completed description Image: Completed description	All containers needing preservation are found to be in compliance with EPA recommendation.				-
Trip Blank present: Pres No N/A 15. Pace Trip Blank lot # (if purchased):	Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	Ves INO	Initial when completed	Lot # of added preservative	
Pace Trip Blank lot # (if purchased): Headspace in VOA vials (>6mm): Ives INo IN/A Project sampled in USDA Regulated Area: Ives INo Ives INo In/A	Trip Blank present:	Hes No N/A	15.		
Headspace in VOA vials (>6mm): Image: Ima	Pace Trip Blank lot # (if purchased):			·····	
Project sampled in USDA Regulated Area:	Headspace in VOA vials (>6mm):	□Yes □No □N/A	16.		
	Project sampled in USDA Regulated Area:		17. List State:		m
Client Notification/ Resolution: Copy COC to Client? Y //[N / Field Data Required? Y / N	Client Notification/ Resolution: Copy	COC to Client?	Y //N)	Field Data Required?	Y / N
Person Contacted: Date/Time:	Person Contacted:	- Date	/Time:		
Comments/ Resolution:	Comments/ Resolution:				
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Project Manager Review: Date: Date:	Project Manager Review:	/		Date:2	<u>a/11</u>
V L Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR	Note: Whenever there is a discrepancy affecting North (Carolina compliance sar	mples, a copy of this form	ال will be sent to the North Car	l olina DEHNR

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