3R - 426

2013 AGWMR

03 / 21 / 2014



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

March 21, 2014

Re: NMOCD Case No. 3RP-426, 2013 Annual Groundwater Monitoring Report

Dear Mr. von Gonten:

Enclosed is the 2013 Annual Groundwater Monitoring Report for the San Juan 27-5 No. 34A site. This report, prepared by Conestoga-Rovers & Associates (CRA), contains the results of groundwater monitoring conducted during October 2013.

Please let me know if you have any questions.

Sincerely,

Terry S. Lauck

Enc



www.CRAworld.com









Report

2013 Annual Groundwater Monitoring Report

ConocoPhillips San Juan 27-5 No. 34A Rio Arriba County, New Mexico API# 30-039-23739 NMOCD# 3R-426

Prepared for: ConocoPhillips Risk Management and Remediation

Conestoga-Rovers & Associates

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



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Section 1.0 Introduction

This report details the results of annual groundwater monitoring completed by Conestoga-Rovers & Associates (CRA) on October 1, 2013 at the ConocoPhillips Company (ConocoPhillips), San Juan 27-5 No. 34A natural gas well site located on BLM land in Unit Letter E, Section 30, Township 27N, Range 05W, of Rio Arriba County, New Mexico (Site).

The location and general features of the Site are presented as **Figures 1** and **2**, respectively. A generalized geologic cross section is presented as **Figure 3**.

1.1 Background

Hydrocarbon impacts were discovered beneath an aboveground storage tank (AST) during tank removal at the Site on January 30, 2009. Envirotech Inc. of Farmington, NM (Envirotech) was contacted for spill assessment services following the discovery. Envirotech collected a 5-point composite soil sample from beneath the AST, 4 grab soil samples from test holes advanced around the AST, and an additional 5-point composite soil sample collected from a small excavation approximately 17 feet deep (Envirotech, 2009). All soil samples collected were field analyzed for total petroleum hydrocarbons (TPH) using Environmental Protection Agency (EPA) method 418.1, and for organic vapors using a photoionization detector (PID). The 5-point composite soil samples were also sent for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021, and for TPH analysis by EPA Method 8015. Soil sample results from both 5-point composite samples and from one of the test holes were above recommended action levels, all other samples were below.

On March 3, 2009, Envirotech returned to the Site to continue sampling activities. A 49 feet by 49 feet by 20 feet deep area had been excavated prior to Envirotech's arrival on Site. Groundwater was encountered at 20 ft below ground surface (bgs). Envirotech sampled the groundwater for analysis of volatile organic compounds (VOCs) using EPA method 8260B (Envirotech, 2009). Laboratory results for benzene were found at a concentration above the New Mexico Water Quality Control Commission (NMWQCC) standard at 96 micrograms per liter (μ g/L) in the groundwater sample. Composite soil samples were collected from the bottom of the excavation and from each of the 4 walls, then field analyzed for organic vapors and TPH. All results were below recommended action levels for organic vapors. TPH concentrations were below recommended action levels in all samples excluding one taken from the south wall of the excavation. Subsequently, the excavation was continued in the south wall 4 additional feet.

Field TPH analysis on an additional sample was below recommended action levels and excavation activities stopped. Final excavation dimensions were reported at 53 feet by 49 feet by 20 feet deep. Personal communication on July 13, 2009 between Tetra Tech and Wade Hack, ConocoPhillips field manager, revealed that the area of the excavation was within the current berm location of the produced water and condensate tanks at the Site (**Figure 2**). A total of 1,900 cubic yards of impacted soil were



removed from the Site and transported to an NMOCD permitted facility located in Farmington, New Mexico. Envirotech recommended the installation of groundwater monitor wells to determine "groundwater gradient and the extent of groundwater contamination" (Envirotech, 2009).

Between July 15, 2009 and July 16, 2009, EnviroDrill of Albuquerque, New Mexico installed 4 groundwater monitor wells at the Site under the supervision of Tetra Tech: MW-1, MW-2, MW-3, and MW-4. All wells were drilled using a CME-75 drill rig, hollow stem augers, and split-spoon sampling techniques; 15 feet of 0.010 polyvinylchloride (PVC) slotted screen was placed in each well.

Tetra Tech began quarterly groundwater quality monitoring of the Site on July 28, 2009. In March of 2011, after eight consecutive quarters of compliance with NMWQCC standards for BTEX, Tetra Tech recommended discontinuation of monitoring for BTEX. Monitoring of dissolved manganese was recommended to continue on an annual basis.

On June 15, 2011, Site consulting responsibilities were transferred from Tetra Tech to CRA of Albuquerque, NM. CRA began annual monitoring for dissolved manganese in September 2011.

Site history is outlined in **Table 1**.

Section 2.0 Groundwater Monitoring Summary, Methodology, and Analytical Results

2.1 Groundwater Monitoring Summary

Prior to sampling on October 1, 2013 groundwater elevation measurements were obtained for Monitor Wells MW-1, MW-2, MW-3 and MW-4 using an oil/water interface probe. Groundwater elevations have risen on average 2.3 feet in Site monitor wells since the previous monitoring event in September 2012. **Table 2** presents the monitor well specifications and groundwater elevation data. A groundwater potentiometric surface map is presented as **Figure 4**, and illustrates that groundwater at the Site flows north-northwest.

2.2 Groundwater Monitoring Methodology

Groundwater quality samples were collected from Monitor Wells MW-1, MW-2, MW-3 and MW-4 during the October 1, 2013 groundwater sampling event. Approximately three well volumes were purged from each monitor well prior to sampling. A 1.5-inch polyethylene, dedicated bailer was used in each well to purge and collect groundwater samples. The purged water was disposed of in the on-site produced water tank (**Figure 2**). Samples were placed in laboratory prepared bottles, packed on ice, and shipped under chain of custody documentation to Pace Analytical Services, Inc. of Lenexa, KS.



Groundwater samples were analyzed for the presence dissolved manganese by EPA Method 6010. Field sampling forms are included as **Appendix A**.

2.3 Groundwater Monitoring Analytical Results

The New Mexico Water Quality Control Commission mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC). Groundwater quality standards have been set for the protection of human health, domestic water supply, and irrigation use. Groundwater samples collected during the October 1, 2013 sampling event all had concentrations of manganese below the NMWQCC standard for manganese of 0.2 mg/L. The 2013 sampling event occurred after an historic monsoon rain event in the area. A summary of historical groundwater analytical results is presented as **Table 3**.

The corresponding laboratory analytical report for the October 2013 groundwater sampling event is included as **Appendix B**.

Section 3.0 Conclusions and Recommendations

In March of 2011, after eight consecutive quarters of compliance with NMWQCC groundwater standards for BTEX, cessation of monitoring for these constituents was approved by the NMOCD. Monitoring of dissolved manganese continues to be conducted on an annual basis. The occurrence of manganese at concentrations significantly below standards in the October 2013 samples, and below results of previous sampling events from Monitor Wells MW-1 and MW-3, are somewhat inconsistent and may be coincident with elevated groundwater levels resulting from record precipitation in the weeks just prior to the October 2013 sampling event.

CRA recommends a semi-annual sampling event be conducted at the site in March of 2014, outside of the monsoon season cycle, to provide groundwater quality data to help determine how much of seasonal fluctuation the October 2013 manganese data represent. If results of the proposed March 2014 sampling event again show dissolved manganese concentrations in all site wells below the NMWQCC standard, quarterly sampling will be proposed in order to move towards eight quarters of compliance.

Remediation Site closure will be requested when groundwater quality results indicate that all monitored groundwater quality parameters are consistently below NMWQCC groundwater quality standards, are stable, or are representative of background conditions at the Site.



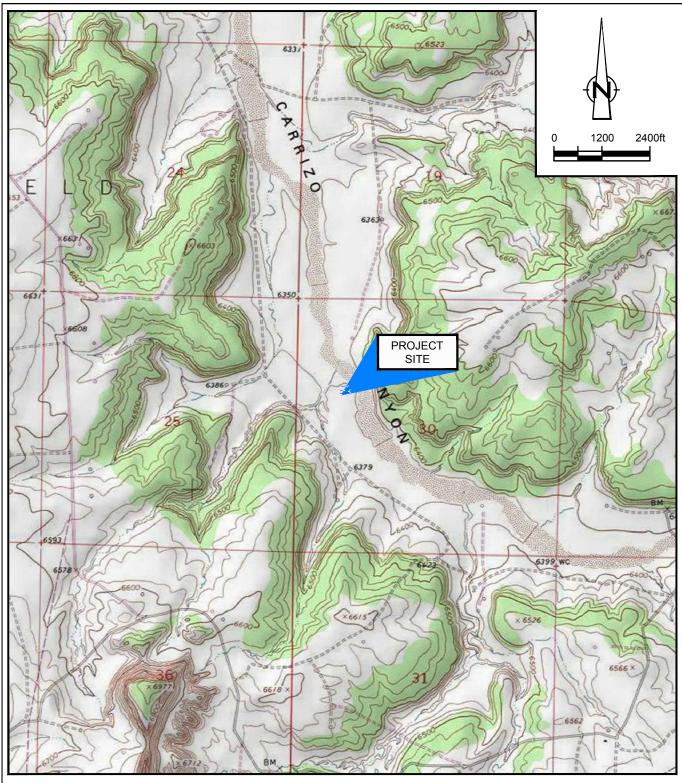
Section 4.0 References

Envirotech Incorporated. March 20, 2009. *Burlington Resources Spill Closure Report Located at San Juan 27-5 #34A, Section 30, Township 27N, Range 5W, Rio Arriba County, New Mexico*. Prepared for ConocoPhillips Company. p2.



Figures





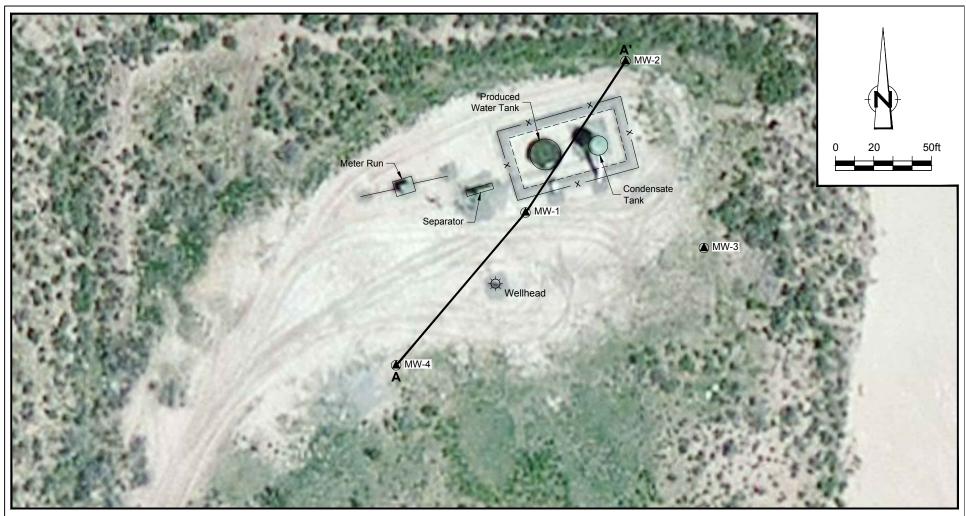
SOURCE: USGS 7.5 MINUTE QUAD "SANTOS PEAK, NEW MEXICO"

LAT/LONG: 36.5471° NORTH, 107.4066° WEST COORDINATE: NAD83 DATUM, U.S. FOOT STATE PLANE ZONE - NEW MEXICO CENTRAL

Figure 1

SITE LOCATION MAP SAN JUAN 27-5 No. 34A SECTION 30, T27N, R5W, RIO ARRIBA COUNTY, NEW MEXICO ConocoPhillips Company





LEGEND

(

Monitor Well Location

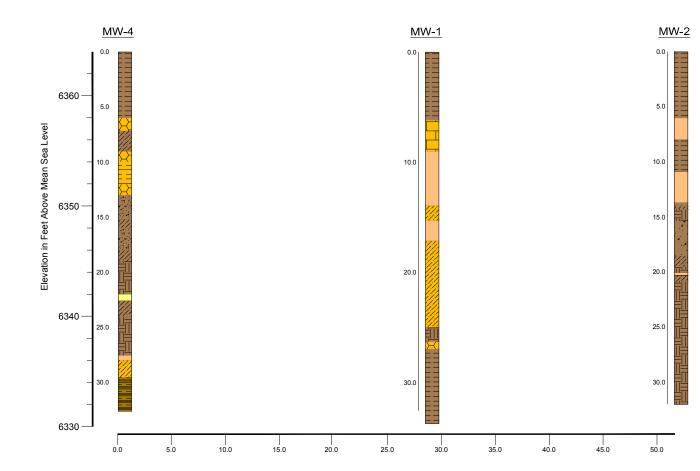


Wellhead

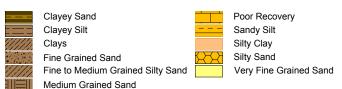
LAT/LONG: 36.8089° NORTH, 107.9463° WEST COORDINATE: NAD83 DATUM, U.S. FOOT STATE PLANE ZONE - NEW MEXICO WEST

Figure 2
SITE MAP
SAN JUAN 27-5 No. 34A
SECTION 30, T27N, R5W, RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company





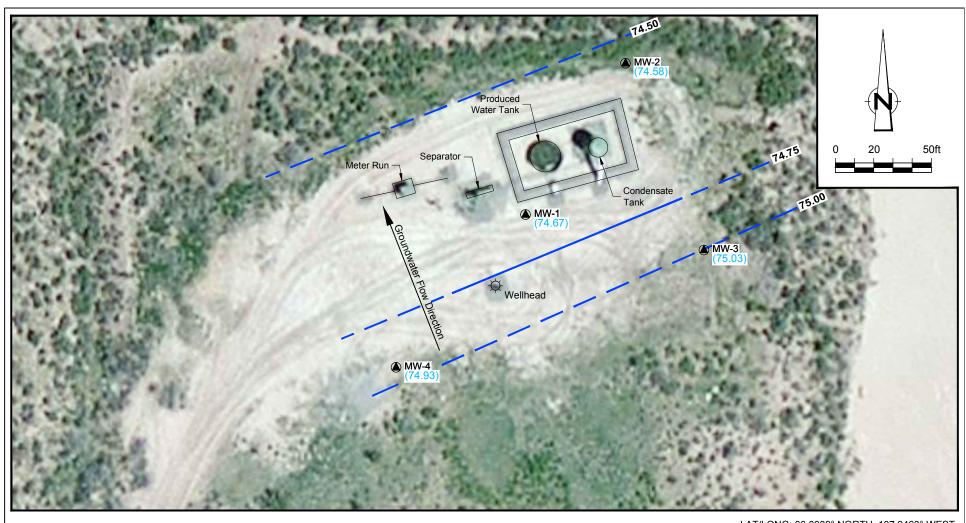
Lithology Index



GEOLOGICAL CROSS SECTION SAN JUAN 27-5 No. 34A SECTION 30, T27N, R5W, RIO ARRIBA COUNTY, NEW MEXICO ConocoPhillips Company

Figure 3





LEGEND

Monitor Well Location

- Wellhead

(72.61) Groundwater Elevation, Ft

—72.50 — Groundwater Elevation Contour, Ft

Groundwater Flow Direction

LAT/LONG: 36.8089° NORTH, 107.9463° WEST COORDINATE: NAD83 DATUM, U.S. FOOT STATE PLANE ZONE - NEW MEXICO WEST

Figure 4

OCTOBER 2013 GROUNDWATER POTENTIOMETRIC SURFACE MAP SAN JUAN 27-5 No. 34A SECTION 30, T27N, R5W, RIO ARRIBA COUNTY, NEW MEXICO ConocoPhillips Company



Tables



TABLE 1 Page 1 of 1

SITE HISTORY TIMELINE CONOCOPHILLIPS COMPANY SAN JUAN 27-5 No. 34A RIO ARRIBA COUNTY, NM

Date/Time Period	Event/Action	Description/Comments
January 30, 2009	Site Assessment	Hydrocarbon impacts are visually confirmed during tank removal at the Site. Envirotech Inc. of Farmington, New Mexico (Envirotech) conducted spill assessment and initial soil sampling.
March 3, 2009	Soil Excavation	Envirotech oversees soil excavation at the Site. Final dimensions of excavated area are 53'x49'x20' deep. Groundwater is encountered at 20' bgs and sampled. Laboratory results for benzene were found at a concentration of 95.6 micrograms per liter (ug/L), above the NMWQCC standard.
March 20, 2009	Excavation Report	Envirotech excavation report states that a total of 1,900 cubic yards of soil was removed from the Site and transported to an OCD-permitted facility in Farmington, NM. Envirotech recommended the installation of groundwater monitor wells at the Site (Envirotech, 2009).
April 2, 2009	Site Assessment	Tetra Tech visits the Site visit to determine placement of proposed groundwater monitor wells.
July 15, 2009 & July 16, 2009	Monitor Well Installation	Four groundwater monitor wells are installed by EnviroDrill under the supervision of Tetra Tech (MW-1, MW-2, MW-3, MW-4).
July 28, 2009	Groundwater Monitoring	Baseline quarterly groundwater monitoring event was conducted at the Site by Tetra Tech.
September 29, 2009	Groundwater Monitoring	Quarterly groundwater monitoring event conducted at the Site by Tetra Tech.
December 15, 2009	Groundwater Monitoring	Quarterly groundwater monitoring event conducted at the Site by Tetra Tech.
April 8, 2010	Groundwater Monitoring	Quarterly groundwater monitoring event conducted at the Site by Tetra Tech.
June 8, 2010	Groundwater Monitoring	Quarterly groundwater monitoring event conducted at the Site by Tetra Tech.
September 21, 2010	Groundwater Monitoring	Quarterly groundwater monitoring event conducted at the Site by Tetra Tech.
December 15, 2010	Groundwater Monitoring	Seventh quarterly groundwater monitoring event conducted at the Site by Tetra Tech. Manganese concentrations exceed NMWQCC standards in monitor wells MW-1, MW-2, and MW-3.
March 15, 2011	Groundwater Monitoring	Eighth quarterly groundwater monitoring event conducted at the Site by Tetra Tech. Manganese concentrations exceed NMWQCC standards in monitor wells MW-1, MW-2, and MW-3. After eight consecutive quarters of compliance with BTEX standards, the monitoring schedule is changed to annual sampling for dissolved manganese only.
June 15, 2011	Tranfer of Site Consulting Responsibilities	Site consulting responsibilities are transferred from Tetra Tech to Conestoga-Rovers & Associates, Inc. of Albuquerque, NM (CRA).
September 28, 2011	Groundwater Monitoring	Annual monitoring event for dissolved manganese only completed by CRA.
September 24, 2012	Groundwater Monitoring	Annual monitoring event for dissolved manganese only completed by CRA.
October 1, 2013	Groundwater Monitoring	Annual monitoring event for dissolved manganese only completed by CRA.

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TABLE 2 Page 1 of 1

MONITOR WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS CONOCOPHILLIPS COMPANY SAN JUAN 27-5 No. 34A RIO ARRIBA COUNTY, NM

Well ID	Total Depth (ft bgs)	Screen Interval (ft)	* TOC Elevation (ft)	Date Measured	Depth to Groundwater (ft below TOC)	Relative Groundwater Elevation
				7/28/2009	23.21	74.23
			-	9/29/2009	23.88	73.56
				12/15/2009	24.15	73.29
			Ī	4/8/2010	21.76	75.68
				6/8/2010	22.26	75.18
MW-1	33.13	18.73 - 33.73	97.44	9/21/2010	23.24	74.20
				12/15/2010	23.60	73.84
				3/15/2011	22.92	74.52
				9/28/2011	24.10	73.34
				9/24/2012	25.20	72.24
				10/1/2013	22.77	74.67
			_	7/28/2009	22.72	74.06
				9/29/2009	23.40	73.38
				12/15/2009	23.66	73.12
				4/8/2010	21.21	75.57
				6/8/2010	21.81	74.97
MW-2	34.29	15 - 30	96.78	9/21/2010	22.78	74.00
				12/15/2010	23.13	73.65
				3/15/2011	22.44	74.34
				9/28/2011	23.62	73.16
				9/24/2012	24.72	72.06
				10/1/2013	22.20	74.58
				7/28/2009	22.84	74.40
				9/29/2009	23.54	73.70
				12/15/2009	23.80	73.44
				4/8/2010	21.22	76.02
				6/8/2010	21.90	75.34
MW-3	33.11	17.55 - 32.55	97.24	9/21/2010	22.90	74.34
				12/15/2010	23.27	73.97
				3/15/2011	22.55	74.69
				9/28/2011	23.73	73.51
				9/24/2012	24.89	72.35
				10/1/2013	22.21	75.03
				7/28/2009	22.62	74.61
				9/29/2009	23.31	73.92
				12/15/2009	23.57	73.66
				4/8/2010	21.25	75.98
				6/8/2010	21.75	75.48
MW-4	33.47	17.6 - 32.6	97.23	9/21/2010	22.67	74.56
				12/15/2010	23.03	74.20
				3/15/2011	22.35	74.88
				9/28/2011	23.50	73.73
				9/24/2012	24.62	72.61
				10/1/2013	22.30	74.93

Notes:

ft = Feet

TOC = Top of casing

bgs = below ground surface

*Groundwater elevation is relative to an arbitrary 100 feet

TABLE 3 Page 1 of 2

GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY CONOCOPHILLIPS COMPANY SAN JUAN 27-5 No. 34A RIO ARRIBA COUNTY

							Xylenes	Manganese	Total Dissolved
			Sample	Benzene	Toluene	Ethylbenzene	(total)	(dissolved)	Solids (TDS)
Well ID	Sample ID	Date	Туре	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	MW-1	7/28/2009	(orig)	< 0.005	< 0.005	< 0.005	< 0.005		
MW-1	MW-1	9/29/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.694	
	MW-1	12/15/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.576	
	MW-1	4/8/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.896	640
	MW-1	6/8/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.612	
	MW-1	9/21/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.784	
	MW-1	12/15/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.933	
	MW-1	3/15/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.732	
	GW-074934-092811-CM-001	9/28/2011	(orig)					0.789	
	GW-074934-092412-CM-MW-1	9/24/2012	(orig)					0.76	
	GW-074934-100113-CM-MW-1	10/1/2013	(orig)					< 0.005	
	MW-2	7/28/2009	(orig)	< 0.005	< 0.005	< 0.005	< 0.005		
	MW-2	9/29/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	1.38	
	MW-2	12/15/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	1.92	
	MW-2	4/8/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	2.43	700
	MW-2	6/8/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	2.12	
	MW-2	9/21/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	2.25	
MW-2	MW-2	12/15/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	2.17	
	MW-2	3/15/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	2.01	
	GW-074934-092811-CM-003	9/28/2011	(orig)					0.592	
	GW-074934-092412-CM-MW-2	9/24/2012	(orig)					0.12	
	GW-074934-092412-CM-DUP	9/24/2012	(duplicate)					0.13	
	GW-074934-100113-CM-MW-2	10/1/2013	(orig)					0.0214	
	GW-074934-100113-CM-DUP	10/1/2013	(duplicate)					0.0194	
	MW-3	7/28/2009	(orig)	< 0.005	< 0.005	< 0.005	< 0.005		
	MW-3	9/29/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	1.7	
	MW-3	12/15/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	2.04	
	MW-3	4/8/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	2.51	525
	MW-3	6/8/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	2.51	
MW-3	MW-3	9/21/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	2.87	
	MW-3	12/15/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	2.69	
	MW-3	3/15/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	2.01	
	GW-074934-092811-JP-002	9/28/2011	(orig)					2.03	
	GW-074934-092412-CM-MW-3	9/24/2012	(orig)					1.2	
	GW-074934-100113-CM-MW-3	10/1/2013	(orig)					< 0.005	

TABLE 3 Page 2 of 2

GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY CONOCOPHILLIPS COMPANY SAN JUAN 27-5 No. 34A RIO ARRIBA COUNTY

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	Manganese (dissolved) (mg/L)	Total Dissolved Solids (TDS) (mg/L)
	MW-4	7/28/2009	(orig)	< 0.005	< 0.005	< 0.005	< 0.005		
	MW-4	9/29/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.269	
	MW-4	12/15/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.0579	
	MW-4	4/8/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.121	684
	MW-4	6/8/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.0384	
MW-4	MW-4	9/21/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.0301	
	MW-4	12/15/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.0088	
	MW-4	3/15/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	0.008	
	GW-074934-092811-CM-005	9/28/2011	(orig)					0.0461	
	GW-074934-092412-CM-MW-4	9/24/2012	(orig)					0.026	
	GW-074934-100113-CM-MW-4	10/1/2013	(orig)					0.157	
	NMWQCC Groundwater Quality	y Standards		0.01	0.75	0.75	0.62	0.2	1000

Notes:

NMWQCC = New Mexico Water Quality Control Commission mg/L = milligrams per liter (parts per million) < 0.001 = Below laboratory detection limit of 0.001 mg/L **Bold** = concentrations that exceed the NMWQCC limits -- = not analyzed

Appendix A

October 2013 Annual Groundwater Sampling Field Forms



	WELL SAMPLING FIELD INFORMATION FORM
SITE/PROJECT NAME SAMPLE ID	(1) 1 11001 (0 0 1) 0
10/1/13	16 1 13
PURGE DATE (MM DD YY)	SAMPLE DATE SAMPLE TIME WATER VOL IN CASING ACTUAL VOL PURGED (MM DD YY) (24 HOUR) (GALLONS) (GALLONS)
PURGING EQUIPMENTDED	PURGING AND SAMPLING EQUIPMENT ICATED Y N (CIRCLE ONE) SAMPLING EQUIPMENTDEDICATED Y N (CIRCLE ONE)
PURGING DEVICE	A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA®
SAMPLING DEVICE	C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER YALEKKA® PURGING DEVICE OTHER (SPECIFY) X=
PURGING MATERIAL	SAMPLING DEVICE OTHER (SPECIFY) A - TEFLON D - PVC X=
SAMPLING MATERIAL	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	B - TYGON E - POLYETHYLENE PURGE TUBING OTHER (SPECIFY) C - ROPE F - SILICONE X - OTHER X =
FILTERING DEVICES 0.45	A-IN-LINE DISPOSABLE B-PRESSURE Lab to Alter SAMPLING TUBING OTHER (SPECIFY)
	FIELD MEASUREMENTS
DEPTH TO WATER	(feet) WELL ELEVATION (feet) 10_38
WELL DEPTH TEMPERATURE	pH TDS SC DO ORP VOLUME
13.01 100	6.63 (std) 0.624 (g/L) 960 (µS/cm) 1.43 (mg/L) 676 (mV) 40 (gal)
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	6.64 (std) 0.609 (g/L) 937 (uS/cm) 1.23 (mg/L) 62.0 (mV) 5.0 (gal)
(°C)	(std) (g/L) (µS/cm) (mg/L) (mV) (gal)
(°C)	(std) (g/L) (μtS/cm) (mg/L) (mV) (gal)
SAMPLE APPEARANCE: VEATHER CONDITIONS: SPECIFIC COMMENTS:	FIELD COMMENTS ODOR ODOR COLOR G YOU SHEEN Y/N NO TEMPERATURE 800 WINDY Y/N NO PRECIPITATION Y/N (IF Y TYPE) NO
1.653×	3 = 4.958
I CERTIFY THAT SAMPLING PROC	PRINT

WELL SAMPLING FIELD INFORMATION FORM SITE/PROJECT NAME: SAMPLE ID: WELL SAMPLING FIELD INFORMATION FORM JOB# 074934 SAMPLE ID: 074934-100113-CM-MW-Z WELL# MW-Z					
PURGE DATE (AIM DD YY)	WELL PURGING INFORMATION SAMPLE DATE (MIN DD YY) SAMPLE TIME (24 HOUR) WATER VOL. IN CASING (GALLONS) ACTUAL VOL. PURGED (GALLONS)				
PURGING EQUIPMENT,DE	PURGING AND SAMPLING EQUIPMENT OICATEI N SAMPLING EQUIPMENTDEDICATE V N (CIRCLE ONE) (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 SAMPLING DEVICE OTHER (SPECIFY)	-			
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 SAMPLING TUBING	A - TEFLON D - POLYPROPYLENE G - COMBINATION X= B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY) C - ROPE F - SILICONE X - OTHER X =				
FILTERING DEVICES 0.45	NA A-IN-LINE DISPOSABLE B-PRESSURE Lab to Alter SAMPLING TUBING OTHER (SPECIFY)				
DEPTH TO WATE: WELL DEPTH TEMPERATURE (°C) (°C) (°C) (°C) SAMPLE APPEARANCE: WEATHER CONDITIONS: SPECIFIC COMMENTS:	3 4-3 3 (seet) GROUNDWATER ELEVATION (seet) (seet) GROUNDWATER ELEVATION (seet) (seet)	(gal) (gal) (gal) (gal) (gal)			
1941×3	= 5.822	-			
I CERTIFY THAT SAMPLING PRODUCTION	DOCEDURES WERE IN ACCOMPANCE WITH APPLICABLE CRA PROTOCOLS PRINT MISTRY SIGNATURE PRINT SIGNATURE PRINT MISTRY SIGNATURE				

SITE/PROJECT NAM. SAMPLE I	113
PURGE DATE (MM DD YY)	WELL PURGING INFORMATION 13
PURGING EQUIPMENTDE	PURGING AND SAMPLING EQUIPMENT SAMPLING EQUIPMENTDEDICATED (CIRCLE ONE)
PURGING DEVICE	A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= PURGING DEVICE OTHER (SPECIFY) C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL SAMPLING MATERIAL	A - TEFLON D - PVC X= B - STAINLESS STEEL E - POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY) X - OTHER SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING SAMPLING TUBING	A - TEFLON D - POLYPROPYLENE G - COMBINATION TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY) C - ROPE F - SILICONE X - OTHER X = SAMPLING TUBING OTHER (SPECIFY)
DEPTH TO WATE WELL DEPT TEMPERATURE	TH 33.10 (feet) GROUNDWATER ELEVATION (feet)
12.52 (co	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
CH ro	(std) (g/L) (g/L) (µS/cm) 1.50 (mg/68,4 (mV) 5.29(g) (g/L) (g/L) (mg/L) (mg/L) (mg/L) (mV) (g/L) (g/L) (g/L) (g/L) (g/L) (mg/L) (my/L) (mV) (g/L) (g/L) (g/L) (g/L) (mg/L) (my/L) (my/L) (g/L) (g/L) (g/L) (g/L) (g/L) (g/L) (mg/L) (my/L) (my/L) (g/L) (g/L
SAMPLE APPEARANCE: VEATHER CONDITIONS: SPECIFIC COMMENTS:	TEMPERATURE BOOK NOVE FIELD COMMENTS COLOR: (ight brown sheeny/n no precipitation y/n (ify type) no
1742 73	3=5.23
I CERTIFY THAT SAMPLING PI	ROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS PRINT ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

SITE/PROJECT NAME: SAMPLE ID:	WELL SAMPLING FIELD INFORMATION FORM San Jun 27-5 34A job# 0 6	1 74934 Mo-24
PURGE DATE (AMM DDYY)	WELL FURGING INFORMATION SAMPLE DATE (MM DD YY) WELL FURGING INFORMATION SAMPLE TIME (24 HOUR) WATER VOL. IN CASI (GALLONS)	ING ACTUAL VOL. PURGED (GALLONS)
	PURGING AND SAMPLING EQUIPMENT	_
PURGING EQUIPMENTDEDICA	ATEI(Y) N SAMPLIN (CIRCLE ONE)	NG EQUIPMENTDEDICATED (F) N (CIRCLE ONE)
PURGING DEVICE	A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER	X=SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B - STAINLESS STEEL E - FOLVETHYLENE	X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL		SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	A - TEFLON D - POLYPROPYLENE G - COMBINATION TEFLON/POLYPROPYLENE B - TYGON E - POLYETHYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C-ROPE F-SILICONE X-OTHER	X=SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	MA A-IN-LINE DISPOSABLE B-PRESSURE Lab to the	
DEPTH TO WATER WELL DEPTH TEMPERATURE	FIELD MEASUREMENTS 22-30 (feet) WELL ELEVATION 336 (feet) GROUNDWATER ELEVATION ph TDS SC DO	(feet) ORP VOLUME
12.72 00 [7,56 (std) 6,883 (g/L) [359 (µS/cm) 4,97 (mg/L	54.8 (mv) 275 (gal) 3.0
(°C)	(std) (g/L) (μS/cm) (mg/L	
(°C)	(std) (g/L) (μS/cm) (mg/L	
(°C)	(std) (g/L) (µS/cm) (mg/L)	(mV)(gal)
(°C)	(std) (g/L) (µS/cm) (mg/L)	(mV) (gal)
	FIELD COMMENTS	
SAMPLE APPEARANCE: WEATHER CONDITIONS: TE	1000	HEENY/N ION Y/N (IFY TYPE)
SPECIFIC COMMENTS:	Sampled @ 3 gallons, Well h	ad bailed
1.810 X3	= 5.428 Oral & 7.5 gallers spetar on	ns, F. 0,5 mare L. Coain, for
1	Ja total of	3.00 gallons
I CERTIFY THAT SAMPLING PROCE	PRINT TO THE PROPERTY OF THE P	Maria

Appendix B

October 2013 Annual Groundwater Laboratory Analytical Report





(913)599-5665



October 17, 2013

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

RE: Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

Dear Christine Matthews:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com Project Manager

Enclosures

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







9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219 WY STR Certification #: 2456.01 Arkansas Certification #: 13-012-0 Illinois Certification #: 003097 lowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212008A Oklahoma Certification #: 9205/9935 Texas Certification #: T104704407-13-4 Utah Certification #: KS000212013-3 Illinois Certification #: 003097

Lenexa, KS 66219 (913)599-5665



SAMPLE SUMMARY

Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60154652001	GW-074934-100113-CM-MW-1	Water	10/01/13 13:10	10/03/13 08:30
60154652002	GW-074934-100113-CM-MW-2	Water	10/01/13 13:30	10/03/13 08:30
60154652003	GW-074934-100113-CM-MW-3	Water	10/01/13 13:00	10/03/13 08:30
60154652004	GW-074934-100113-CM-MW-4	Water	10/01/13 13:20	10/03/13 08:30
60154652005	GW-074934-100113-CM-MW-DUP	Water	10/01/13 13:35	10/03/13 08:30





SAMPLE ANALYTE COUNT

Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60154652001	GW-074934-100113-CM-MW-1	EPA 6010		1
60154652002	GW-074934-100113-CM-MW-2	EPA 6010	TJT	1
60154652003	GW-074934-100113-CM-MW-3	EPA 6010	TJT	1
60154652004	GW-074934-100113-CM-MW-4	EPA 6010	TJT	1
60154652005	GW-074934-100113-CM-MW-DUP	EPA 6010	TJT	1

(913)599-5665



PROJECT NARRATIVE

Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

Method: EPA 6010

Description: 6010 MET ICP, Dissolved (LF)

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

Date: October 17, 2013

General Information:

5 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

CAS No.

Analyzed

Lenexa, KS 66219 (913)599-5665

Qual



ANALYTICAL RESULTS

MDL

DF

Prepared

Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

Parameters

Sample: GW-074934-100113-CM- Lab ID: 60154652001 Collected: 10/01/13 13:10 Received: 10/03/13 08:30 Matrix: Water

Limit

MW-1

Date: 10/17/2013 08:37 AM

Report

6010 MET ICP, Dissolved (LF) Analytical Method: EPA 6010 Preparation Method: EPA 3010

Units

Results

Manganese, Dissolved ND ug/L 5.0 0.49 1 10/11/13 12:00 10/15/13 10:53 7439-96-5

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ANALYTICAL RESULTS

Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

Sample: GW-074934-100113-CM- Lab ID: 60154652002 Collected: 10/01/13 13:30 Received: 10/03/13 08:30 Matrix: Water

MW-2

Date: 10/17/2013 08:37 AM

Report

Parameters Results Units Limit MDL DF Prepared Analyzed CAS No. Qual

6010 MET ICP, Dissolved (LF) Analytical Method: EPA 6010 Preparation Method: EPA 3010

Manganese, Dissolved **21.4** ug/L 5.0 0.49 1 10/11/13 12:00 10/15/13 11:02 7439-96-5

CAS No.

Analyzed



Qual



ANALYTICAL RESULTS

Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

6010 MET ICP, Dissolved (LF)

Date: 10/17/2013 08:37 AM

Sample: GW-074934-100113-CM-Lab ID: 60154652003 Collected: 10/01/13 13:00 Received: 10/03/13 08:30 Matrix: Water

Report

MW-3

Prepared

Parameters Results Units Limit MDL DF

Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved ND ug/L 5.0 0.49 10/11/13 12:00 10/15/13 11:04 7439-96-5





ANALYTICAL RESULTS

Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

Sample: GW-074934-100113-CM- Lab ID: 60154652004 Collected: 10/01/13 13:20 Received: 10/03/13 08:30 Matrix: Water

MW-4

Date: 10/17/2013 08:37 AM

Report

Parameters Results Units Limit MDL DF Prepared Analyzed CAS No. Qual

6010 MET ICP, Dissolved (LF) Analytical Method: EPA 6010 Preparation Method: EPA 3010

Manganese, Dissolved **157** ug/L 5.0 0.49 1 10/11/13 12:00 10/15/13 11:07 7439-96-5

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ANALYTICAL RESULTS

Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

Sample: GW-074934-100113-CM-Lab ID: 60154652005 Collected: 10/01/13 13:35 Received: 10/03/13 08:30 Matrix: Water

MW-DUP

Date: 10/17/2013 08:37 AM

Report Parameters Results Units Limit MDL DF Prepared CAS No. Analyzed Qual

6010 MET ICP, Dissolved (LF) Analytical Method: EPA 6010 Preparation Method: EPA 3010

Manganese, Dissolved 19.4 ug/L 5.0 0.49 10/11/13 12:00 10/15/13 11:09 7439-96-5

Lenexa, KS 66219 (913)599-5665



QUALITY CONTROL DATA

Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

Date: 10/17/2013 08:37 AM

QC Batch: MPRP/24684 Analysis Method: EPA 6010

QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved

Associated Lab Samples: 60154652001, 60154652002, 60154652003, 60154652004, 60154652005

METHOD BLANK: 1269910 Matrix: Water

Associated Lab Samples: 60154652001, 60154652002, 60154652003, 60154652004, 60154652005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Manganese, Dissolved ug/L ND 5.0 10/15/13 11:16

LABORATORY CONTROL SAMPLE: 1269911

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Manganese, Dissolved ug/L 1000 978 98 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1269912 1269913

MSD MS MS 60154652001 Spike Spike MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Manganese, Dissolved 1000 75-125 2 20 ug/L ND 1000 982 958 98 95

(913)599-5665



QUALIFIERS

Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

Date: 10/17/2013 08:37 AM





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 07934 SAN JUAN 27-5 NO 34A

Pace Project No.: 60154652

Date: 10/17/2013 08:37 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60154652001	GW-074934-100113-CM-MW-1	EPA 3010	MPRP/24684	EPA 6010	ICP/19184
60154652002	GW-074934-100113-CM-MW-2	EPA 3010	MPRP/24684	EPA 6010	ICP/19184
60154652003	GW-074934-100113-CM-MW-3	EPA 3010	MPRP/24684	EPA 6010	ICP/19184
60154652004	GW-074934-100113-CM-MW-4	EPA 3010	MPRP/24684	EPA 6010	ICP/19184
60154652005	GW-074934-100113-CM-MW-DUP	EPA 3010	MPRP/24684	EPA 6010	ICP/19184



Sample Condition Upon Receipt ESI Tech Spec Client



Client Name: COP- CRA NM	Optional
Courier: Fed Ex ✓ UPS □ USPS □ Client □ Commercia	
	g Label Used? Yes ✓ No □ Proj Name:
Custody Seal on Cooler/Box Present: Yes ✓ No ☐ Seals in	
Packing Material: Bubble Wrap □ Bubble Bags □	Foam None Other Lplc
Thermometer Used: T-112 / T-194 Type of Ice:	Wef Blue None Samples received on ice, cooling process has begun.
Cooler Temperature: 1.9	(circle one) Date and initials of person examining
Temperature should be above freezing to 6°C	contents: 1013113 (1)
Chain of Custody present:	D □N/A 1.
Chain of Custody filled out:	D []N/A 2.
Chain of Custody relinquished:	D □N/A 3.
Sampler name & signature on COC: ☐ Yes □ No.	o □N/A 4.
Samples arrived within holding time: —□Yes □No	D □N/A 5.
Short Hold Time analyses (<72hr):	D □N/A 6.
Rush Turn Around Time requested:	D □N/A 7.
Sufficient volume:	D IN/A 8.
Correct containers used:	o □N/A
Pace containers used:	D □N/A 9.
Containers intact:	D □N/A 10.
Unpreserved 5035A soils frozen w/in 48hrs?	DN/A 11.
Filtered volume received for dissolved tests?	DW/A 12.
Sample labels match COC:	o □N/A
Includes date/time/ID/analyses Matrix:	13.
All containers needing preservation have been checked.	D ØN/A
All containers needing preservation are found to be in compliance with EPA recommendation.	D ₽N/A 14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	Initial when Lot # of added completed preservative
Trip Blank present:	O ÁN/A
Pace Trip Blank lot # (if purchased):	15.
Headspace in VOA vials (>6mm): □Yes □No	16.
Project sampled in USDA Regulated Area:	N/A 17. List State:
Client Notification/ Resolution: Copy COC to Client?	Field Data Required? Y / N
Person Contacted: Date/Time:	Temp Log: Record start and finish times
Comments/ Resolution:	when unpacking cooler, if >20 min, recheck sample temps.
	Start: 1440 Start:
- Anc	End: 1445 End:
Project Manager Review:	Date: (1) (2) (Temp: Temp:

Pace Analytical

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

Section A Required C	Section A Recuired Clent Information:	Section B Rennired Project Information	Section C		Page: of
Company	MIN VOO GOO	Popul To: Object Mathematical		J	
<u> </u>		Report 10: Christine Mathews	Attention: COP epayables		
Address:	: 6121 Indian School Rd NE, Ste 200	Copy To: Jeff Walker, Angela Bown	Company Name:	REGULATORY AGENCY	
	Albequerque, NM 87110		Address:	T NPDES: A GROUND WATER	WATER PRINKING WATER
Email To:	cmathews@craworld.com	Purchase Order No.:	Pace Quote Reference	L UST RCRA	↑ OTHER
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name: San Juan 27-5 No. 34A	Page Project Alice Flanagan Manager.	Site Location	
Reques	Requested Due Date/TAT: standard	Project Number: 74934	Pace Profile #: 5514, 18	STATE: NIM	
				Requested Analysis Filtered (Y/N)	
	Section D Valid Matrix Codes Required Client Information COD	odes e D COLLECTÉD	Z Preservatives		
# M∃TI	SAMPLE ID SAMPLE ID (A-Z, 0-9 /, -) Sample IDS MUST BE UNIQUE TISSUE	SAMPLE TYPE (G=GRAB CCILECTION START COLLECTION START	# OF CONTAINERS Unpreserved H ₂ SO ₄ HNO ₃ HCI Na ₂ O ₃ HCI Other Other		Residual Chlorine (Y/V) Residual Chlorine Pace Project No./ Lab I.D.
1	JUM -07-81001-12-100/	1 80/1/13			893m (201
2	GIU-674974-100113-(M. MIL	-2 W/A			1
62	J-074934-100113-(in-	23 WIG 10/1/18 1			03
4	M-611001 HEBALD ON	1 Elijo 10 10 10 10 10 10 10 1			3
ro (94-014454-1001-3-011-1	3			\$
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10					
+ ;					
2	ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION DATE	TIME ACCEPTED BY / AFFILIATION	DATE TIME	SAMPLE CONDITIONS
	NOT HER THE	ent	(1930 E Brockett 1 Pare	1013 0830 1.9	7 7
-]	e Lab Thanks		*		(рө
Y	Page 15 o	SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:	The Third Man Date Signed	14/2/13	O'emp in o'eceived on lce (Y/N) Custody Sealic Cooler (Y/N) Samples Inta (Y/N)
		Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for	or any involces not paid within 30 days		F-ALL-Q-020rev.08, 12-Oct-2007