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**QUARTERLY GROUNDWATER MONITORING
REPORT
MARCH 2010 SAMPLING EVENT
CONOCOPHILLIPS COMPANY
SHEPHERD & KELSEY NO.1E
BLOOMFIELD, NEW MEXICO**

OCD # 3RP-98-0
API # - 30-045-24316

Prepared for:



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Bartlesville, OK 74004

Prepared by:



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June 2010

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QUARTERLY GROUNDWATER MONITORING REPORT CONOCOPHILLIPS COMPANY SHEPHERD & KELSEY 1E BLOOMFIELD, NEW MEXICO

1.0 INTRODUCTION

ConocoPhillips Company (ConocoPhillips) retained Tetra Tech, Inc (Tetra Tech) to perform additional site characterization work and quarterly groundwater monitoring at the Shepherd & Kelsey No. 1E site in Bloomfield, New Mexico (Site). This report presents the results of a quarterly groundwater monitoring event conducted at the Site by Tetra Tech on March 31, 2010. This sampling event represents the seventh consecutive quarter of groundwater monitoring completed by Tetra Tech at the Site.

The Site is located on private land leased by ConocoPhillips near the intersection of New Mexico Highway 64 and County Road 5097 in Bloomfield, NM. The Site consists of a gas production well head with associated equipment and installations, and is surrounded by agricultural land. The coordinates are 36° 42' 6.8"N and 108° 01' 12.2" W; the location and general features of the Site are presented as **Figure 1** and **Figure 2**, respectively.

1.1 Site History

A historical timeline for the Site is presented in **Table 1**, and is discussed in more detail below.

Contaminated soil was discovered at the Site during routine maintenance on June 5, 2007. Envirotech Inc. of Farmington, New Mexico (Envirotech) performed soil excavation (Excavation #1, **Figure 2**) at the Site, during which three soil samples were collected and analyzed for total petroleum hydrocarbons (TPH). The concentration of TPH was found to be below the New Mexico Oil Conservation Department (NMOCD) recommended action level. On June 12, 2007 a separate area of TPH soil contamination was discovered. An excavation of the additional area was performed by Envirotech from June 15 through June 18, 2007 (Excavation #2, **Figure 2**). Soil samples taken during the second excavation were found to be above the NMOCD recommended action level for TPH. Groundwater samples collected during excavation were found to contain benzene and total xylenes above New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards. Monitor Well MW-1 was installed by Envirotech on September 26, 2007. Soil and groundwater samples collected during drilling were analyzed for TPH and for benzene, toluene, ethylbenzene and total xylenes (BTEX); results were below NMOCD recommended action levels. In November 2007, Envirotech recommended plugging and abandoning MW-1 and a no further action status from NMOCD. However, in April 2008, NMOCD indicated that further investigation was necessary before closure could be granted.

Tetra Tech began quarterly sampling of MW-1 on October 23, 2008. On January 22, 2009, three additional groundwater monitor wells were installed by WDC Exploration and Drilling of Peralta, NM (WDC), under the supervision of Tetra Tech. Monitor Wells MW-2, MW-3, and MW-4 were initially

sampled on January 30, 2009 and have since been incorporated into the quarterly monitoring schedule of MW-1.

2.0 METHODOLOGY AND RESULTS

Quarterly groundwater sampling was conducted on March 31, 2010. Groundwater samples were collected from Monitor Wells MW-1, MW-2, MW-3 and MW-4. Prior to sampling, depth to groundwater in each well was recorded using a dual interface probe; results are displayed in **Table 2**.

The casings for all Site monitor wells were surveyed by Tetra Tech in January 2009, with the wellhead assigned an arbitrary reference elevation of 100 feet above mean sea level (amsl). Using this data, it was determined that the groundwater flow direction at the Site is to the south (**Figure 3**).

2.1 Groundwater Sampling Methodology

Monitor Wells MW-1, MW-2, MW-3, and MW-4 were sampled during the March 31, 2010 groundwater monitoring event. Prior to sampling, all monitor wells were purged of at least 3 casing volumes of groundwater using a 1.5-inch diameter, polyethylene disposable bailer. Groundwater quality parameters were collected using a YSI 556 multi-parameter sonde during each purge. Results were recorded on a Tetra Tech Water Sampling Field Form (**Appendix A**). Groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped under chain-of-custody documentation to Southern Petroleum Laboratory (SPL) of Houston, Texas. Samples were analyzed for dissolved manganese by EPA Method 6010B; TDS by EPA Method 2540C; and for BTEX by EPA Method 8260B.

2.2 Groundwater Sampling Analytical Results

The New Mexico Water Quality Control Commission (NMWQCC) mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC). A historical summary of groundwater analytical results is provided in **Table 3**. The laboratory analytical report is included as **Appendix B**.

- **Manganese**

The groundwater quality standard for manganese is 0.2 milligrams per liter (mg/L). Groundwater collected from Monitor Wells MW-3 and MW-4 were found to contain manganese at concentrations of 0.219 mg/L and 0.336 mg/L, respectively.

- **TDS**

The groundwater quality standard for TDS is 1000 mg/L. Groundwater collected from Monitor Well MW-4 was found at the standard of 1000 mg/L.

3.0 CONCLUSIONS

In order to move toward Site closure with NMOCD, continued groundwater quality monitoring is recommended for BTEX and dissolved manganese. Furthermore, Tetra Tech recommends continued

monitoring of total dissolved solids (TDS) to determine if seasonal trends are influencing Site groundwater quality.

The next groundwater monitoring event is scheduled for June 2010. Please contact Kelly Blanchard at 505-237-8440 or kelly.blanchard@tetrattech.com if you have any questions or require additional information.

FIGURES



FIGURE 1.

Site Location Map
ConocoPhillips Company
Shepherd & Kelsey No.

1E

Bloomfield, NM
36° 42' 6.8" N
108° 01' 12.2" W



Approximate
Site location



TETRA TECH, INC.



ConocoPhillips High Resolution Aerial Imagery 2008

FIGURE 2:

SITE DETAIL MAP
CONOCOPHILLIPS COMPANY
SHEPHERD & KELSEY No.1E
 Section 29 of T29N, R11W
 Bloomfield, New Mexico

LEGEND

-  WELLHEAD
-  BERM
-  EQUIPMENT

-  CONDENSATE TANK
-  PRODUCED WATER TANK



TETRA TECH, INC.



ConocoPhillips High Resolution Aerial Imagery 2008



TABLES

Table 1. Site History Timeline - ConocoPhillips Company Shepherd and Kelsey No. 1E

DATE	ACTIVITY
5-Jun-07	Hydrocarbon-impacted soil discovered during routine maintenance of the Site. Soil excavation was performed at the Site, and three soil samples were obtained. Sample results showed total petroleum hydrocarbon (TPH) concentrations below the NMOCD regulations of 100 parts per million (ppm). Original source of contamination is unknown.
12-Jun-07	A separate area of TPH soil contamination discovered.
June 15-18, 2007	A 50 foot by 20 foot by 4 foot excavation completed. Soil samples taken from the second excavation show TPH at 992 ppm, and water samples obtained show benzene and total xylenes above State of New Mexico drinking water standards.
26-Sep-07	Ground water monitoring well installed to a depth of ten (10) feet below ground surface (bgs) by Envirotech Inc. of Farmington, NM (Envirotech). Depth to groundwater recorded at four (4) feet bgs. Soil and groundwater samples obtained for TPH, benzene, and benzene, toluene, ethylbenzene and total xylenes (BTEX) were below the respective NMOCD regulations of 100 ppm, 10 ppm and 50 ppm.
Nov-07	Envirotech report recommends plugging and abandonment of the temporary ground water monitoring well and no further action for the Site (Envirotech, 2007).
Apr-08	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.
23-Oct-08	1st quarter sampling of MW-1 by Tetra Tech.
Jan-09	Installed additional monitoring wells MW-2, MW-3 and MW-4.
30-Jan-09	2nd quarter sampling of MW-1 by Tetra Tech; initial sampling of MW-2, MW-3, and MW-4.
1-Apr-09	Quarterly sampling of monitor wells MW-1, MW-2, MW-3, and MW-4.
18-Jun-09	Quarterly sampling of monitor wells MW-1, MW-2, MW-3, and MW-4.
21-Sep-09	Quarterly sampling of monitor wells MW-1, MW-2, MW-3, and MW-4. Dissolved metals analysis initiated at the Site for metals with elevated total metal concentrations.
14-Dec-09	Quarterly sampling of monitor wells MW-1, MW-2, MW-3, and MW-4.
31-Mar-10	Quarterly sampling of monitor wells MW-1, MW-2, MW-3, and MW-4.

Table 2. Groundwater Elevation Data Summary - ConocoPhillips Company Shepherd & Kelsey No. 1E

Well ID	Total Depth (ft bgs)	Screen Interval (ft)	*Elevation (ft) (TOC)	Date Measured	Depth to Groundwater (ft below TOC)	Relative Groundwater Elevation
MW-1	12	2.5-10.0	96.53	10/23/2008	4.02	92.51
				1/30/2009	5.7	90.83
				4/1/2009	5.9	90.63
				6/18/2009	4.01	92.52
				9/21/2009	5.62	90.91
				12/14/2009	5.51	91.02
MW-2	20.30	3.0 - 18.0	98.05	3/31/2010	5.72	90.81
				1/30/2009	5.41	92.64
				4/1/2009	5.78	92.27
				6/18/2009	2.50	95.55
				9/21/2009	4.60	93.45
				12/14/2009	4.99	93.06
MW-3	20.10	3.0 - 18.0	95.60	3/31/2010	5.53	92.52
				1/30/2009	5.29	90.31
				4/1/2009	5.46	90.14
				6/18/2009	3.64	91.96
				9/21/2009	5.25	90.35
				12/14/2009	5.19	90.41
MW-4	20.70	3.7 - 18.7	96.23	3/31/2010	5.30	90.30
				1/30/2009	6.33	89.90
				4/1/2009	6.40	89.83
				6/18/2009	5.51	90.72
				9/21/2009	6.13	90.10
				12/14/2009	5.91	90.32
				3/31/2010	6.10	90.13

ft = Feet

TOC = Top of casing

bgs = below ground surface

* Elevation relative to wellhead

Table 3. Groundwater Laboratory Analytical Results - ConocoPhillips Company Shepherd & Kelsey No. 1E

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Sulfate (mg/L)	Aluminum (mg/L)	Iron (mg/L)	Manganese (mg/L)	Total Dissolved Solids (mg/L)
MW-1	1/30/2009	< 5	< 5	< 5	< 5	303	0.658*	1.45*	0.276*	692
	4/1/2009	< 5	< 5	< 5	< 5	258	1.19*	1.9*	0.416*	1,340
	6/18/2009	< 5	< 5	< 5	< 5	NA	0.187*	0.209*	NA**	NA
	9/21/2009	< 1	< 1	< 1	< 2	324	< 0.1	0.0458	0.0356	700
	12/14/2009	< 1	< 1	< 1	< 1	NA	NA	NA	0.0539	661
MW-2	3/31/2010	< 1	< 1	< 1	< 1	NA	NA	NA	0.0662	697
	1/30/2009	< 5	< 5	< 5	< 5	706	11.3*	22.4*	2.06*	1,130
	4/1/2009	< 5	< 5	< 5	< 5	613	4.39*	11.3*	0.964*	1,420
	6/18/2009	< 5	< 5	< 5	< 5	NA	2.38*	4.01*	NA**	NA
	9/21/2009	< 1	< 1	< 1	< 2	421	< 0.1	< 0.02	0.158	740
MW-3	12/14/2009	< 1	< 1	< 1	< 1	NA	NA	NA	0.106	764
	3/31/2010	< 1	< 1	< 1	< 1	NA	NA	NA	0.144	804
	1/30/2009	< 5	< 5	< 5	< 5	427	4.34*	5.77*	0.675*	918
	4/1/2009	< 5	< 5	< 5	< 5	416	1.45*	3.0*	0.615*	1,010
	6/18/2009	< 5	< 5	< 5	< 5	NA	0.67*	1.57*	NA**	NA
MW-4	9/21/2009	< 1	< 1	< 1	< 2	359	< 0.1	< 0.02	0.115	733
	12/14/2009	< 1	< 1	< 1	< 1	NA	NA	NA	0.154	712
	3/31/2010	< 1	< 1	< 1	< 1	NA	NA	NA	0.219	898
	1/30/2009	< 5	< 5	< 5	< 5	539	7.29*	19.4*	16.7*	1,000
	4/1/2009	< 5	< 5	< 5	< 5	512	11.4*	23.4*	3.36*	1,010
NMWQCC Groundwater Quality Standard	6/18/2009	< 5	< 5	< 5	< 5	NA	0.344*	0.362*	NA**	NA
	9/21/2009	< 1	< 1	< 1	< 2	472	< 0.1	0.0376	0.286	963
	12/14/2009	< 1	< 1	< 1	< 1	NA	NA	NA	0.283	861
	3/31/2010	< 1	< 1	< 1	< 1	NA	NA	NA	0.336	1000
Notes:										
MW = monitor well										
NMWQCC = New Mexico Water Quality Control Commission										
Constituents in BOLD exceed NMWQCC Groundwater Quality Standards										
VOCs = volatile organic compounds										
mg/L = milligrams per liter										
µg/L = micrograms per liter										
NA** = not analyzed due to lab error										
NA = not analyzed										
NE = not established										
TDS - total dissolved solids										
Total Xylenes = the sum of m,p-xylene and o-xylene.										
* = Results reported for total metals analysis, results can not be compared to NMWQCC Standards for dissolved metals										

APPENDIX A



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Shepherd & Kelsey 1EPage 1 of 4

Project No. _____

Site Location Bloomfield, NMSite/Well No. MW-1Coded/
Replicate No. duplicate @ 930Date 3-31-10Weather cloudy, 45°Time Sampling
Began 9:10Time Sampling
Completed 9:25

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 11.96 Water-Level Elevation _____Held _____ Depth to Water Below MP 5.72 Diameter of Casing 2"Wet _____ Water Column in Well 6.24 Gallons Pumped/Bailed 3
Prior to SamplingGallons per Foot 0.16Gallons in Well 0.998 x 3Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump/Bailer = 2.99

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)
9:15	8.42	7.31	1000	0.683	7.46	73.1
9:18	8.28	7.25	997	0.679	7.46	14.4
9:20	8.34	7.27	7081	0.682	3.86	17.7
9:21	8.30	7.29	1003	0.681	3.78	17.3

DO 2.0
62.6
38.1
33.4
32.2

Sampling Equipment Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

BTEX 3 40mL VOA's HClDissolved Mn 16 oz Plastic NoneTDS 16 oz Plastic None

Remarks _____

Sampling Personnel Kelly Blanchard, Christine Matthews

Well Casing Volumes

Gal./ft.	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3 ½" = 0.50	6" = 1.46



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Shepherd & Kelsey 1EPage 2 of 4

Project No. _____

Site Location Bloomfield, NMSite/Well No. MW-2 Coded/
Replicate No. _____Date 3-31-10Weather cloudy, 45° Time Sampling
Began 820Time Sampling
Completed 845

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 20.2 Water-Level Elevation _____Held _____ Depth to Water Below MP 5.53 Diameter of Casing 2"Wet _____ Water Column in Well 14.67 Gallons Pumped/Bailed
Prior to Sampling 7.25 8 gallonsGallons per Foot 0.16Gallons in Well 2.347 x 3 Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump / Bailer = 7.04 gallons

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)
6.15 <u>842</u>	<u>11.30</u>	<u>7.48</u>	<u>1186</u>	<u>.771</u>	<u>2.97</u>	<u>48.3</u>
7.5 <u>843</u>	<u>11.27</u>	<u>7.48</u>	<u>1188</u>	<u>.772</u>	<u>2.93</u>	<u>44.4</u>
7.75 <u>844</u>	<u>11.30</u>	<u>7.47</u>	<u>1188</u>	<u>.772</u>	<u>2.78</u>	<u>41.3</u>

DO%
275
26.4
25.2

Sampling Equipment Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

BTEX 3 40mL VOA's HClDissolved Mn 16 oz Plastic NoneTDS 16 oz Plastic NoneRemarks H₂O light brown, cleared up around 7 gallonsSampling Personnel Kelley Blanchard, Christine Matthews

Well Casing Volumes

Gal./ft.	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Shepherd & Kelsey 1EPage 3 of 4

Project No. _____

Site Location Bloomfield, NMSite/Well No. MW-3 MW-4Coded/
Replicate No. _____Date 3-31-10Weather cloudy, 45°Time Sampling
Began _____Time Sampling
Completed _____

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 20.11 Water-Level Elevation _____Held _____ Depth to Water Below MP 6.10 Diameter of Casing 2"Wet _____ Water Column in Well 14.01 Gallons Pumped/Bailed 7 gallons

Gallons per Foot _____ 0.16

Gallons in Well 2.24 x 3 = 6.73 Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump/Bailer

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)
6:00 9:54	11.62	7.40	1341	.871	7.61	-22.9
6:25 9:56	11.73	7.39	1356	.884	3.14	-28.4
6:45 9:57	11.51	7.41	1345	.873	2.78	-30.6

DO %
62.9
28.1
24.8Sampling Equipment Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

BTEX 3 40mL VOA's HCl _____Dissolved Mn 16 oz Plastic None _____TDS 16 oz Plastic None _____Remarks Orange bio particulate matter, possibly bacteria, clears up around 2.5 gallonsSampling Personnel Kelly Blanchard, Christine Matthews

Well Casing Volumes

Gal./ft.	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Shepherd & Kelsey 1EPage 4 of 4

Project No. _____

Site Location Bloomfield, NMSite/Well No. MW-3 Coded/
Replicate No. _____Date 3-31-10Weather Cloudy 45° Time Sampling
Began 900Time Sampling
Completed 935

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 20.37 Water-Level Elevation _____Held _____ Depth to Water Below MP 5.30 Diameter of Casing 2"Wet _____ Water Column in Well 15.07 Gallons Pumped/Bailed
Prior to Sampling 7.23 8 gallonsGallons per Foot 0.16Gallons in Well 2.41 x 3Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump Bailer 7.23

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm ³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%
<u>927</u>	<u>8.41</u>	<u>7.40</u>	<u>1298</u>	<u>844</u>	<u>3.17</u>	<u>16.0</u>	<u>25.6</u>
<u>930</u>	<u>7.96</u>	<u>7.37</u>	<u>1292</u>	<u>839</u>	<u>2.59</u>	<u>6.7</u>	<u>21.9</u>
<u>932</u>	<u>8.00</u>	<u>7.26</u>	<u>1275</u>	<u>829</u>	<u>2.24</u>	<u>6.4</u>	<u>18.8</u>

Sampling Equipment Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

BTEX 3 40mL VOA's HClDissolved Mn 16 oz Plastic NoneTDS 16 oz Plastic NoneRemarks Orange bio particulate matter (bacteria?) slightSampling Personnel Kelly Blanchard, Christine Mathews

Well Casing Volumes

Gal./ft.	1 1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.10	2 1/2" = 0.24	3 1/2" = 0.50	6" = 1.46

R:\Share\Maxim Forms\Field Forms\SK1E Water Sampling Field Forms.xls

APPENDIX B



SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

April 15, 2010

Workorder: H10040019

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Shepherd & Kelsey #1E
Project Number: Shepherd & Kelsey #1E
Site: Bloomington, New Mexico
PO Number: 4510672256
NELAC Cert. No.: T104704205-09-1

This Report Contains A Total Of 18 Pages

Excluding Any Attachments



SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

April 15, 2010

Workorder: H10040019

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Shepherd & Kelsey #1E
Project Number: Shepherd & Kelsey #1E
Site: Bloomington, New Mexico
PO Number: 4510672256
NELAC Cert. No.: T104704205-09-1

I. SAMPLE RECEIPT:

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

II: ANALYSES AND EXCEPTIONS:

There were no exceptions noted.

III. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.



SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

April 15, 2010

Workorder: H10040019

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Shepherd & Kelsey #1E
Project Number: Shepherd & Kelsey #1E
Site: Bloomington, New Mexico
PO Number: 4510672256
NELAC Cert. No.: T104704205-09-1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

Erica Cardenas, Senior Project Manager

Enclosures



SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

SAMPLE SUMMARY

Workorder: H10040019 : Shepherd & Kelsey #1E

Project Number: Shepherd & Kelsey #1E

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H10040019001	MW-1	Water		3/31/2010 09:25	4/1/2010 09:00
H10040019002	MW-2	Water		3/31/2010 08:45	4/1/2010 09:00
H10040019003	MW-3	Water		3/31/2010 09:35	4/1/2010 09:00
H10040019004	MW-4	Water		3/31/2010 10:00	4/1/2010 09:00
H10040019005	Duplicate	Water		3/31/2010 09:30	4/1/2010 09:00
H10040019006	Trip Blank	Water		3/31/2010 10:05	4/1/2010 09:00



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ANALYTICAL RESULTS

Workorder: H10040019 : Shepherd & Kelsey #1E

Project Number: Shepherd & Kelsey #1E

Lab ID: H10040019001

Date/Time Received: 4/1/2010 09:00

Matrix: Water

Sample ID: MW-1

Date/Time Collected: 3/31/2010 09:25

WET CHEMISTRY

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1538 SM 2540 C on 04/01/2010 18:00 by CFS

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Residue, Filterable (TDS)	697		10.0	3.94	1			1538

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1638 SW-846 3010A on 04/05/2010 17:00 by R_V

Analytical Batches:

Batch: 1334 SW-846 6010B on 04/11/2010 14:57 by EBG

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Manganese	0.0662		0.00500	0.000300	1		1638	1334

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1709 SW-846 8260B on 04/05/2010 16:30 by JMC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l						Prep	Analysis
Benzene	ND		1.0	0.10	1			1709
Ethylbenzene	ND		1.0	0.15	1			1709
Toluene	ND		1.0	0.29	1			1709
m,p-Xylene	ND		1.0	0.18	1			1709
o-Xylene	ND		1.0	0.13	1			1709
Xylenes, Total	ND		1.0	0.13	1			1709
4-Bromofluorobenzene (S)	93.5 %		74-125		1			1709
1,2-Dichloroethane-d4 (S)	101 %		70-130		1			1709
Toluene-d8 (S)	101 %		82-118		1			1709



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ANALYTICAL RESULTS

Workorder: H10040019 : Shepherd & Kelsey #1E

Project Number: Shepherd & Kelsey #1E

Lab ID: H10040019002

Date/Time Received: 4/1/2010 09:00

Matrix: Water

Sample ID: MW-2

Date/Time Collected: 3/31/2010 08:45

WET CHEMISTRY

Analysis Desc: SM-2540 C

Analytical Batches:

Batch: 1538 SM-2540 C on 04/01/2010 18:00 by CFS

Parameters	Results				DF	RegLmt	Batch Information	
	mg/l	Qual	Report Limit	MDL			Prep	Analysis
Residue, Filterable (TDS)	804		10.0	3.94	1			1538

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1638 SW-846 3010A on 04/05/2010 17:00 by R_V

Analytical Batches:

Batch: 1334 SW-846 6010B on 04/11/2010 15:02 by EBG

Parameters	Results				DF	RegLmt	Batch Information	
	mg/l	Qual	Report Limit	MDL			Prep	Analysis
Manganese	0.144		0.00500	0.000300	1		1638	1334

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1709 SW-846 8260B on 04/05/2010 16:58 by JMC

Parameters	Results				DF	RegLmt	Batch Information	
	ug/l	Qual	Report Limit	MDL			Prep	Analysis
Benzene	ND		1.0	0.10	1			1709
Ethylbenzene	ND		1.0	0.15	1			1709
Toluene	ND		1.0	0.29	1			1709
m,p-Xylene	ND		1.0	0.18	1			1709
o-Xylene	ND		1.0	0.13	1			1709
Xylenes, Total	ND		1.0	0.13	1			1709
4-Bromofluorobenzene (S)	93.1 %		74-125		1			1709
1,2-Dichloroethane-d4 (S)	96.2 %		70-130		1			1709
Toluene-d8 (S)	98.5 %		82-118		1			1709



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ANALYTICAL RESULTS

Workorder: H10040019 : Shepherd & Kelsey #1E

Project Number: Shepherd & Kelsey #1E

Lab ID: H10040019003

Date/Time Received: 4/1/2010 09:00

Matrix: Water

Sample ID: MW-3

Date/Time Collected: 3/31/2010 09:35

WET CHEMISTRY

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1538 SM 2540 C on 04/01/2010 18:00 by CFS

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l	Qual					Prep	Analysis
Residue, Filterable (TDS)	898		10.0	3.94	1			1538

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1638 SW-846 3010A on 04/05/2010 17:00 by R_V

Analytical Batches:

Batch: 1334 SW-846 6010B on 04/11/2010 15:08 by EBG

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l	Qual					Prep	Analysis
Manganese	0.219		0.00500	0.000300	1		1638	1334

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1709 SW-846 8260B on 04/05/2010 17:25 by JMC

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l	Qual					Prep	Analysis
Benzene	ND		1.0	0.10	1			1709
Ethylbenzene	ND		1.0	0.15	1			1709
Toluene	ND		1.0	0.29	1			1709
m,p-Xylene	ND		1.0	0.18	1			1709
o-Xylene	ND		1.0	0.13	1			1709
Xylenes, Total	ND		1.0	0.13	1			1709
4-Bromofluorobenzene (S)	92.2 %		74-125		1			1709
1,2-Dichloroethane-d4 (S)	105 %		70-130		1			1709
Toluene-d8 (S)	99.6 %		82-118		1			1709



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ANALYTICAL RESULTS

Workorder: H10040019 : Shepherd & Kelsey #1E

Project Number: Shepherd & Kelsey #1E

Lab ID: H10040019004

Date/Time Received: 4/1/2010 09:00

Matrix: Water

Sample ID: MW-4

Date/Time Collected: 3/31/2010 10:00

WET CHEMISTRY

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1538 SM 2540 C on 04/01/2010 18:00 by CFS

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l	Qual					Prep	Analysis
Residue, Filterable (TDS)	1000		10.0	3.94	1			1538

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1638 SW-846 3010A on 04/05/2010 17:00 by R_V

Analytical Batches:

Batch: 1334 SW-846 6010B on 04/11/2010 15:14 by EBG

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l	Qual					Prep	Analysis
Manganese	0.336		0.00500	0.000300	1		1638	1334

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1709 SW-846 8260B on 04/05/2010 17:52 by JMC

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l	Qual					Prep	Analysis
Benzene	ND		1.0	0.10	1			1709
Ethylbenzene	ND		1.0	0.15	1			1709
Toluene	ND		1.0	0.29	1			1709
m,p-Xylene	ND		1.0	0.18	1			1709
o-Xylene	ND		1.0	0.13	1			1709
Xylenes, Total	ND		1.0	0.13	1			1709
4-Bromofluorobenzene (S)	94.5 %		74-125		1			1709
1,2-Dichloroethane-d4 (S)	96.4 %		70-130		1			1709
Toluene-d8 (S)	102 %		82-118		1			1709



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ANALYTICAL RESULTS

Workorder: H10040019 : Shepherd & Kelsey #1E

Project Number: Shepherd & Kelsey #1E

Lab ID: H10040019005

Date/Time Received: 4/1/2010 09:00

Matrix: Water

Sample ID: Duplicate

Date/Time Collected: 3/31/2010 09:30

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1709 SW-846 8260B on 04/05/2010 18:20 by JMC

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l	Qual					Prep	Analysis
Benzene	ND		1.0	0.10	1			1709
Ethylbenzene	ND		1.0	0.15	1			1709
Toluene	ND		1.0	0.29	1			1709
m,p-Xylene	ND		1.0	0.18	1			1709
o-Xylene	ND		1.0	0.13	1			1709
Xylenes, Total	ND		1.0	0.13	1			1709
4-Bromofluorobenzene (S)	95.3 %		74-125		1			1709
1,2-Dichloroethane-d4 (S)	98.5 %		70-130		1			1709
Toluene-d8 (S)	100 %		82-118		1			1709



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ANALYTICAL RESULTS

Workorder: H10040019 : Shepherd & Kelsey #1E

Project Number: Shepherd & Kelsey #1E

Lab ID: H10040019006

Date/Time Received: 4/1/2010 09:00

Matrix: Water

Sample ID: Trip Blank

Date/Time Collected: 3/31/2010 10:05

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1709 SW-846 8260B on: 04/05/2010 18:48 by JMC

Parameters	Results					Batch Information	
	ug/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Benzene	ND		1.0	0.10	1		1709
Ethylbenzene	ND		1.0	0.15	1		1709
Toluene	ND		1.0	0.29	1		1709
m,p-Xylene	ND		1.0	0.18	1		1709
o-Xylene	ND		1.0	0.13	1		1709
Xylenes, Total	ND		1.0	0.13	1		1709
4-Bromofluorobenzene (S)	92.7 %		74-125		1		1709
1,2-Dichloroethane-d4 (S)	101 %		70-130		1		1709
Toluene-d8 (S)	102 %		82-118		1		1709



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QUALITY CONTROL DATA

Workorder: H10040019 : Shepherd & Kelsey #1E

Project Number: Shepherd & Kelsey #1E

QC Batch: WETS/1538

Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C

Associated Lab Samples:	H10030546001	H10040011004	H10040015001	H10040017001	H10040017002	H10040019001
	H10040019002	H10040019003	H10040019004	H10040025001	H10040025002	H10040025003
	H10040029001	H10040029002	H10040029003	H10040029004		

METHOD BLANK: 37258

Analysis Date/Time Analyst: 04/01/2010 18:00 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Residue, Filterable (TDS)	mg/l	ND		10.0

LABORATORY CONTROL SAMPLE & LCSD: 37259 37262

LCS Analysis Date/Time Analyst: 04/01/2010 18:00 CFS

LCSD Analysis Date/Time 04/01/2010 18:00 CFS

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Residue, Filterable (TDS)	mg/l	200	198.0	199.0	99.0	99.5	95-107	0.5	10

SAMPLE DUPLICATE: 37261

Original: H10040015001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
Residue, Filterable (TDS)	mg/l	1510	1520	0.7	10	1

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040019 : Shepherd & Kelsey #1E

Project Number: Shepherd & Kelsey #1E

QC Batch: DIGM/1638

Analysis Method: SW-846 6010B

QC Batch Method: SW-846 3010A

Preparation: 04/05/2010 17:00 by R_V

Associated Lab Samples:	H10040019001	H10040019002	H10040019003	H10040019004	H10040021001	H10040021002
	H10040021003	H10040021004	H10040025001	H10040025002	H10040025003	H10040049001
	H10040049002	H10040049003	H10040049004	H10040050001	H10040051001	H10040051002
	H10040051003	H10040051004				

METHOD BLANK: 37509

Analysis Date/Time Analyst: 04/11/2010 13:44 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Manganese	mg/l	ND		0.00500

LABORATORY CONTROL SAMPLE: 37510

Analysis Date/Time Analyst: 04/11/2010 13:49 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Manganese	mg/l	0.10	0.1052	105	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 37507

37508

Original: H10040025002

MS Analysis Date/Time Analyst: 04/11/2010 14:00 EBG

MSD Analysis Date/Time Analyst: 04/11/2010 14:06 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Manganese	mg/l	0.136	0.10	0.2285	0.2325	92.9	96.9	75-125	1.7	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040019 : Shepherd & Kelsey #1E

Project Number: Shepherd & Kelsey #1E

QC Batch: MSV/1708

Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030

Preparation: 04/05/2010 00:00 by JMC

Associated Lab Samples:	H10040006001	H10040006002	H10040006003	H10040006004	H10040006005	H10040006006
	H10040006007	H10040014001	H10040014003	H10040014004	H10040014005	H10040019001
	H10040019002	H10040019003	H10040019004	H10040019005	H10040019006	

METHOD BLANK: 37519

Analysis Date/Time Analyst: 04/05/2010 11:55 JMC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Benzene	ug/l	ND		1.0
Ethylbenzene	ug/l	ND		1.0
Toluene	ug/l	ND		1.0
m,p-Xylene	ug/l	ND		1.0
o-Xylene	ug/l	ND		1.0
Xylenes, Total	ug/l	ND		1.0
4-Bromofluorobenzene (S)	%	95.4		74-125
1,2-Dichloroethane-d4 (S)	%	94.2		70-130
Toluene-d8 (S)	%	102		82-118

LABORATORY CONTROL SAMPLE: 37520

Analysis Date/Time Analyst: 04/05/2010 11:28 JMC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	19.4	97.2	74-123
Ethylbenzene	ug/l	20	19.0	95.1	72-127
Toluene	ug/l	20	19.6	98.2	74-126
m,p-Xylene	ug/l	40	39.1	97.8	71-129
o-Xylene	ug/l	20	19.5	97.7	74-130
Xylenes, Total	ug/l	60	58.64	97.7	71-130
4-Bromofluorobenzene (S)	%			96.8	74-125
1,2-Dichloroethane-d4 (S)	%			96.8	70-130
Toluene-d8 (S)	%			100	82-118

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 37521

37522

Original: H10040006001

MS Analysis Date/Time Analyst: 04/05/2010 12:50 JMC

MSD Analysis Date/Time Analyst: 04/05/2010 13:18 JMC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	ND	20	19.2	19.5	95.8	97.4	70-124	1.7	20
Ethylbenzene	ug/l	ND	20	20.0	18.8	99.9	94.2	35-175	5.9	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040019 : Shepherd & Kelsey #1E

Project Number: Shepherd & Kelsey #1E

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 37521

37522

Original: H10040006001

MS Analysis Date/Time Analyst: 04/05/2010 12:50 JMC

MSD Analysis Date/Time Analyst: 04/05/2010 13:18 JMC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Toluene	ug/l	ND	20	19.8	19.7	98.9	98.5	70-131	0.4	20
m,p-Xylene	ug/l	ND	40	40.2	38.7	100	96.8	35-175	3.7	20
o-Xylene	ug/l	ND	20	19.9	19.6	99.3	97.8	35-175	1.6	20
Xylenes, Total	ug/l	ND	60	60.04	58.27	100	97.1	35-175	3.0	20
4-Bromofluorobenzene (S)	%	91.8				98.6	98.1	74-125		30
1,2-Dichloroethane-d4 (S)	%	104				95.2	101	70-130		30
Toluene-d8 (S)	%	100				102	101	82-118		30

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



Legend

(S) - Indicates analyte is a surrogate

Qualifier	Qualifier Description
MI	Matrix Interference
I	Estimated value, between MDL and PQL (Florida)
JN	The analysis indicates the presence of an analyte
C	MTBE results were not confirmed by GCMS
NC	Not Calculated - Sample concentration > 4 times the spike
*	Recovery/RPD value outside QC limits
E	Results exceed calibration range
H	Exceeds holding time
J	Estimated value
Q	Received past holding time
B	Analyte detected in the Method Blank
N	Recovery outside of control limits
D	Recovery out of range due to dilution
NC	Not Calculable (Sample Duplicate)
P	Pesticide dual column results, greater than 25%



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040019 : Shepherd & Kelsey #1E

Project Number: Shepherd & Kelsey #1E

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040019001	MW-1	SM 2540 C	WETS/1538		
H10040019002	MW-2	SM 2540 C	WETS/1538		
H10040019003	MW-3	SM 2540 C	WETS/1538		
H10040019004	MW-4	SM 2540 C	WETS/1538		
H10040019001	MW-1	SW-846 3010A	DIGM/1638	SW-846 6010B	ICP/1334
H10040019002	MW-2	SW-846 3010A	DIGM/1638	SW-846 6010B	ICP/1334
H10040019003	MW-3	SW-846 3010A	DIGM/1638	SW-846 6010B	ICP/1334
H10040019004	MW-4	SW-846 3010A	DIGM/1638	SW-846 6010B	ICP/1334
H10040019001	MW-1	SW-846 5030	MSV/1708	SW-846 8260B	MSV/1709
H10040019002	MW-2	SW-846 5030	MSV/1708	SW-846 8260B	MSV/1709
H10040019003	MW-3	SW-846 5030	MSV/1708	SW-846 8260B	MSV/1709
H10040019004	MW-4	SW-846 5030	MSV/1708	SW-846 8260B	MSV/1709
H10040019005	Duplicate	SW-846 5030	MSV/1708	SW-846 8260B	MSV/1709
H10040019006	Trip Blank	SW-846 5030	MSV/1708	SW-846 8260B	MSV/1709



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Sample Receipt Checklist

WorkOrder:	H10040019	Received By	LOG
Date and Time	04/01/2010 09:00	Carrier Name:	FEDEXS
Temperature:	1.5°C	Chilled By:	Water Ice

1. Shipping container/cooler in good condition? YES
2. Custody seals intact on shipping container/cooler? YES
3. Custody seals intact on sample bottles? Not Present
4. Chain of custody present? YES
5. Chain of custody signed when relinquished and received? YES
6. Chain of custody agrees with sample labels? YES
7. Samples in proper container/bottle? YES
8. Samples containers intact? YES
9. Sufficient sample volume for indicated test? YES
10. All samples received within holding time? YES
11. Container/Temp Blank temperature in compliance? YES
12. Water - VOA vials have zero headspace? YES
13. Water - Preservation checked upon receipt(except VOA*)? Not Applicable

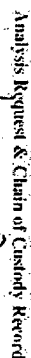
*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Client Instructions:



SPL, Inc



H10040019

1 of 2

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