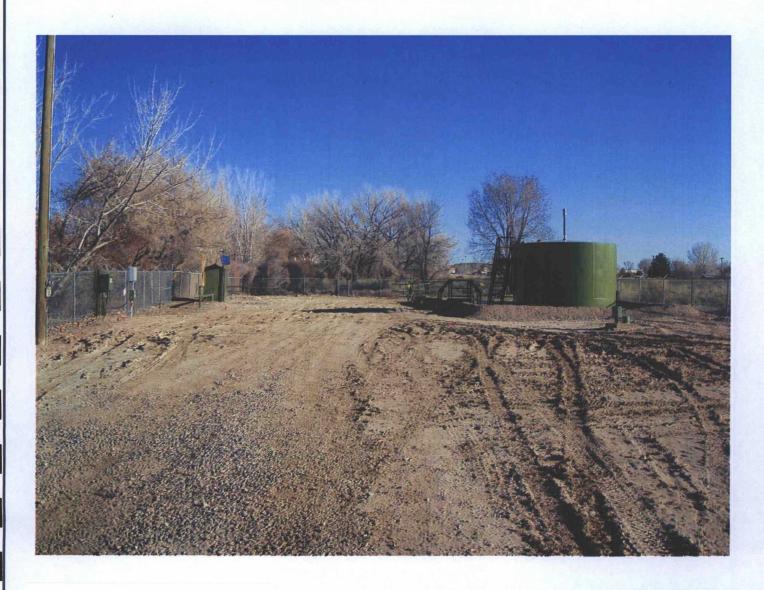
3R-87

Annual Monitoring Report

Date **2006**

2006 ANNUAL MONITORING REPORT CONOCOPHILLIPS FEDERAL #15 FARMINGTON, NM



District Copy For Scanning Only Has NOT been processed.





January 2007

2006 ANNUAL GROUNDWATER AND SITE ACTIVITIES REPORT

FEDERAL #15 FARMINGTON, NEW MEXICO

Prepared for:



600 North Dairy Ashford Houston, TX 77079

Prepared by:



6121 Indian School Rd. NE Suite 200 Albuquerque, NM 87110 Tetra Tech Project No. 7690010.100

OIL CONS. DIV.

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Appendix A. Groundwater Laboratory Analytical Reports

2006 ANNUAL GROUNDWATER MONITORING AND SITE ACTIVITIES REPORT FEDERAL #15, FARMINGTON, NEW MEXICO

1.0 SITE HISTORY

This report presents the results of groundwater monitoring and a summary of vacuum truck pumping events that took place during 2006 at the ConocoPhillips Federal #15 Site in Farmington, New Mexico, by Tetra Tech, Inc. (Tetra Tech).

The site is located on the north side of Gila Street. The closest cross street is Main Street, located approximately 0.5 miles to the west of the site. The site consists of gas production well and associated equipment and installations. The location and general features of the Federal #15 site are shown on Figures 1 and 2, respectively.

On Saturday, October 23, 2004 a release was discovered at the site. It was estimated that up to 15 barrels of condensate was unaccounted for. Approximately 1,500 cubic yards of affected soil were excavated and replaced with clean fill during the week of October 25, 2004.

Following soil remediation activities, four, 2-inch PVC groundwater monitoring wells were installed on November 16 and 17, 2004 by Biosphere Environmental Sciences and Technologies, LLC to depths of approximately 20 feet below ground surface (bgs). An additional, downgradient monitoring well, MW-5, was installed to a depth of approximately 17.5 feet bgs on the property south of the site on October 19, 2005 by Spectrum Drilling under the supervision of Tetra Tech.

2.0 SITE ACTIVITIES SUMMARY

2.1 Groundwater Pumping

On February 16th, May 15th, August 2nd, and November 14th, 2006 Tetra Tech was onsite to conduct groundwater removal events using a vacuum truck operated by Riley Industrial Services of Farmington, New Mexico. Approximately 143.71, 295.9, 380, and 439.7 gallons of water were removed from MW-2, respectively. Fluids were disposed of in the onsite waste water tank.

2.2 Groundwater Sampling Methodology

A groundwater sampling event was conducted by Tetra Tech on November 14th. Groundwater samples from MW-1, MW-2, MW-3, MW-4, and MW-5 were collected. Monitoring wells were purged of at least

three casing volumes of water. Approximately 6 gallons of water were removed from each well. The purged water was disposed of in the waste water tank located on site (Figure 2). A 1.5-inch dedicated, clear, polyvinyl, disposable bailer was used in each well to collect groundwater samples. The samples were placed in laboratory prepared bottles, packed on ice, and shipped with chain of custody documentation to Severn Trent Laboratories located in Denver, Colorado. The samples were analyzed for presence of benzene, toluene, ethyl-benzene, and xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B, semi-volatile organic compounds (SVOCs) by EPA Method 8270C, and chloride by EPA Method 300.0A.

Groundwater levels were recorded before well sampling. The water levels collected prior to sampling during each event were used to create the groundwater elevation contour map shown as Figure 3. Table I presents the groundwater levels and the top of casing survey results used to calculate the groundwater elevations at the site.

2.3 Groundwater Sampling Analytical Results

The sample collected from monitoring well MW-2 contained a concentration of benzene above the New Mexico Water Quality Control Commission (NMWQCC) standard of $10~\mu g/L$, at 23~micrograms per liter ($\mu g/L$). The duplicate sample collected from MW-2 contained a concentration of benzene at $45~\mu g/L$. Both the sample from MW-2 and the duplicate sample contained concentrations of toluene, ethylbenzene, and xylenes below NMWQCC standards. All other samples were below laboratory detection limits for benzene, toluene, ethylbenzene, and xylenes. The downgradient well located on the adjacent property remained unimpacted.

All samples contained chloride concentrations below the NMWQCC standard of 250 mg/L (milligrams per liter). Chloride concentrations ranged from 36 mg/L in MW-1 to 79 mg/L in MW-5. All samples collected were non-detect for napthalenes. Groundwater laboratory analytical data is provided in Table 2. The laboratory analytical report is located in Appendix A.

3.0 CONCLUSIONS

Approximately one year after impacted soil was removed from the site, the benzene concentration in MW-2 was 1100 μ g/L during the October 2005 sampling event. The benzene concentration in MW-2 decreased to between 23 μ g/L and 45 μ g/L during the November 2006 sampling event. Tetra Tech has conducted quarterly pumping events in MW-2 since July 2005. The decrease in benzene in MW-2 suggests the pumping events have been effective. Tetra Tech will continue to pump MW-2 quarterly during 2007. Following the annual sampling event during November 2007, Tetra Tech will reevaluate the continuation of quarterly pumping events. If MW-2 and all other site wells have reached compliance, pumping will be discontinued and quarterly groundwater sampling will begin.

FIGURES

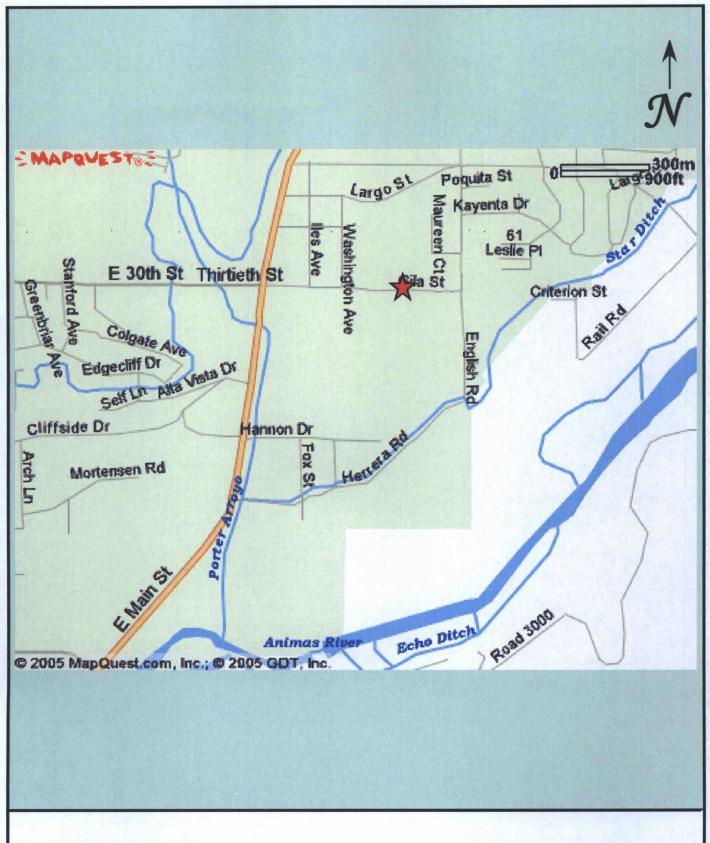
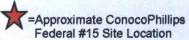
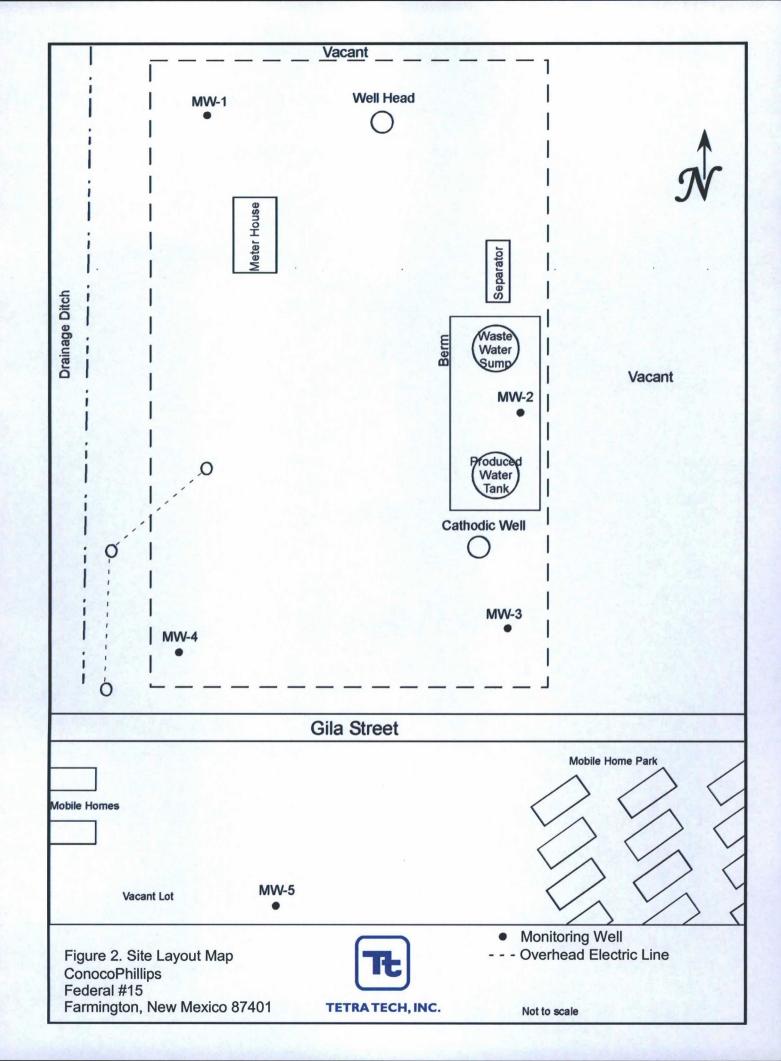
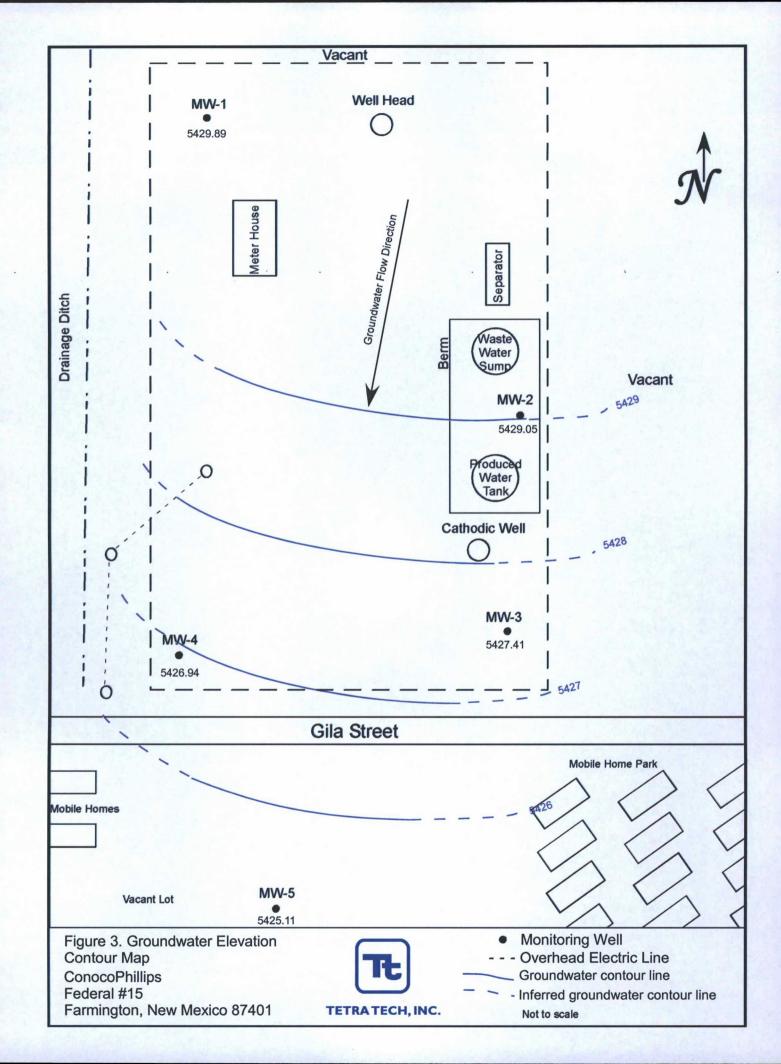


Figure 1. Site Location Map ConocoPhillips Federal #15 Farmington, New Mexico 87401









TABLES

Table 1. ConocoPhillps Federal #15 Groundwater Elevation Table

Well ID	Date Installed	Total Depth (ft. bgs)	Screen Interval (ft)	Date Measured	Groundwater Level (ft TOC)	Elevation (ft. msl) (TOC)	Groundwater Elevation (ft msl)
				1/18/2005	8.92		5429.07
MW-1	11/17/2004	20	5 - 20	10/19/2005	8.03	5437.99	5429.96
				11/15/2006	8.1		5429.89
				1/18/2005	9.49		5427.84
MW-2	11/17/2004	20	5 - 20	10/19/2005	8.66	5437.33	5428.67
				11/14/2006	8.28		5429.05
				1/18/2005	8.54		5426.59
MW-3	11/22/2004	20	5 - 20	10/19/2005	7.75	5435.13	5427.38
				11/14/2006	7.72		5427.41
				1/18/2005	8.65		5426.03
MW-4	11/22/2004	20	5 - 20	10/19/2005	7.72	5434.68	5426.96
				11/14/2006	7.74		5426.94
MW-5	10/19/2005	17.5	35_175	10/20/2005	9.11	5434 16	5425.05
	0002/01/01	0.1	0.1	11/14/2006	9.05		5425.11

ft. = Feet msl = Mean sea level TOC = Top of casing bgs = below ground surface

Table 2. Federal #15 Groundwater Laboratory Analytical Data

Well ID	Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (μg/L)	2-Methylnaphthalene (μg/L)	1-Methylnaphthalene (μg/L)	Naphthalene (μg/L)	Total Naphthalene (μg/L)	Chloride (mg/L)
	1/18/2005	<1.0	<1.0	<1.0	<2.0	<10	<10	<10	<10	85
MW-1	10/18/2005	<1.0	<1.0	<1.0	<2.0	<10	<10	<10	<10	39
	11/15/2006	<1.0	<1.0	<1.0	<2.0	<10	<10	<10	ND	36
	1/18/2005	1200	3300	380	3500	72	34	51	157	41
	Duplicate	1300	3700	410	3800	- T	The state of the s			
MW-2	10/19/2005	1100	410	160	470	18	11	15	44	60
10100-2	Duplicate	1100	500	150	610				10.60 mg = 10.00 mg	
	11/14/2006	23	29	6.6	120	<10	<10	<10	ND	50
	Duplicate	45	57	12	220					
	1/18/2005	190	<5.0	<5.0	<10	<10	<10	<10	<10	34
MW-3	10/19/2005	<1.0	<1.0	<1.0	<2.0	<10	<10	<10	<10	42
	11/14/2006	<1.0	<1.0	<1.0	<2.0	<10	<10	<10	ND	39
	1/18/2005	2.8	<1.0	<1.0	<2.0	<10	<10	<10	<10	37
MW-4	10/19/2005	23	2.2	<1.0	4.3	<10	<10	<10	<10	51
	11/14/2006	1.1	<1.0	<1.0	<2.0	<10	<10	<10	ND	44
MW-5	10/20/2005	<1.0	<1.0	<1.0	<2.0	<10	<10	<10	<10	73
14144-2	11/14/2006	<1.0	<1.0	<1.0	<2.0	<10	<10	<10	<10	79
NMWQCC	Standards	10 (µg/L)	750 (µg/L)	750 (µg/L)	620 (µg/L)	NE	NE	NE	30 (μg/L)	250 mg/L

NMWQCC = New Mexico Water Quality Control Commission mg/L = milligrams per liter (parts per million) μg/L = micrograms per liter (parts per billion) NE=Not Extablished --- = Not Analyzed

APPENDIX A

Groundwater Laboratory Analytical Report



STL Denver 4955 Yarrow Street Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171 www.stl-inc.com

ANALYTICAL REPORT

Federal Com #15

Lot #: D6K160291

Ms. Kelly Henderson

Tetra Tech 6121 Indian School Rd NE Suite 200 Albuquerque, NM 87110

Severn Trent Laboratories

Donna Rydberg Project Manager

November 30, 2006

Table Of Contents

Standard Deliverables

Report Contents

Total Number of Pages

Standard Deliverables

The Cover Letter and the Report Cover page are considered integral parts of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.

- Table of Contents
- Case Narrative
- Executive Summary Detection Highlights
- Methods Summary
- Method/Analyst Summary
- Sample Summary
- Analytical Results
- QC Data Association Summary
- QC Evaluation and/or Data Reports
- Chain-of-Custody

Case Narrative

The following report contains the analytical result for six samples and Trip Blank submitted to STL Denver on October 16, 2006, according to documented sample acceptance procedures.

The results included in this report have been reviewed for compliance with STL's Quality Assurance/Quality Control (QA/QC) plan.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The test results shown in this report meet all requirements of NELAC. Any exceptions are noted below.

Supplemental QC Information

Sample Arrival and Receipt

The samples presented in this report were received at the laboratory at temperatures of 2.9°C and 2.2°C. Sample containers were received in acceptable condition.

Method 8260B - GC/MS Volatile

Samples D6K160291-002 and -006 were analyzed at a dilution to bring target compounds within the instrument calibration range. Reporting limits were raised accordingly.

The percent recoveries for Chlorobenzene and surrogate 1,2-Dichloroethene-d4 were outside control limits in the MS and/or MSD and associated with prep batch 6325194. The associated LCS and Method Blank were in control and demonstrate that operating procedures were in control. No further action was required.

No other anomalies were observed.

Method 8270C - PAH

No anomalies were observed.

General Chemisty

Sample D6K160291-005 was analyzed at dilution due to high concentrations of chloride. The reporting limits were raised accordingly. The data was flagged "Q".

No other anomalies were observed.

Madrida Selevición de el deservición de el deservición de el de el

EXECUTIVE SUMMARY - Detection Highlights

D6K160291

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-1 11/15/06 08:30 001				
Chloride	.36	3.0	mg/L	MCAWW 300.0A
MW-2 11/14/06 17:00 002				
Benzene Ethylbenzene Toluene	23 29 6.6	5.0 5.0 5.0	ug/L ug/L ug/L	SW846 8260B SW846 8260B SW846 8260B
Xylenes (total) Chloride	120 50	10	ug/L mg/L	SW846 8260B MCAWW 300.0A
MW-3 11/14/06 15:30 003				
Chloride	39	3.0	mg/L	MCAWW 300.0A
MW-4 11/14/06 16:45 004				
Benzene Chloride	1.1	1.0	ug/L mg/L	SW846 8260B MCAWW 300.0A
MW-5 11/14/06 15:15 005				
Chloride	79 Q	15	mg/L	MCAWW 300.0A
DUPLICATE 11/14/06 17:30 006				
Benzene Ethylbenzene Toluene Xylenes (total)	45 57 12 220	10 10 10 20	ug/L ug/L ug/L ug/L	SW846 8260B SW846 8260B SW846 8260B SW846 8260B
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METHODS SUMMARY

D6K160291

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Chloride	MCAWW 300.0A	MCAWW 300.0A
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3520C
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

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MCAWW "Methods for Chemical Analysis of Water and Wastes",

EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical

Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D6K160291

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SW846

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ANALYTI METHOD	CAL	ANALYST	ANALYST ID
MCAWW 3	00.0A	Grant Henshaw	004878
SW846 8	260B	Hauging Zhou	005417
SW846 8	270C	Tamera Ashcraft	009005
Referen	ces:		
MCAWW		mical Analysis of Water and Wast , March 1983 and subsequent revi	

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D6K160291

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JJV30	001	MW-1	11/15/06	08:30
JJV4Q	002	MW-2	11/14/06	17:00
JJV4V	003	-MW-3	11/14/06	15:30
JJV41	004	MW-4	11/14/06	16:45
JJV44	005	MW-5	11/14/06	15:15
JJV45	006	DUPLICATE	11/14/06	17:30
JJV5M	007	TRIP BLANK	11/15/06	16:00

NOTE (S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

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Client Sample ID: MW-1

GC/MS Volatiles

Lot-Sample #:	D6K160291-001	Work Order #	T.TV301AD	Matrix	WATER
TOC Dampte #	DOKTOOFST-OOT	MOTY OTACT #	. 00 42 0 TVD	LICICI TWO	1177777

 Date Sampled...:
 11/15/06 08:30 Date Received...:
 11/16/06

 Prep Date.....:
 11/20/06
 Analysis Date...:
 11/20/06

 Prep Batch #...:
 6325194
 Analysis Time...:
 14:29

Prep Batch #...: 6325194 Analysis Tim

Method.....: SW846 8260B

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PARAMETER	RESULT	LIMIT	UNITS	MDL	1
Benzene	ND	1.0	ug/L	0.16	
Ethylbenzene	ND	1.0	ug/L	0.16	
Toluene	ND	1.0	ug/L	0.17	
Xylenes (total)	ND	2.0	ug/L	0.19	

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(79 - 119)
1,2-Dichloroethane-d4	79	(65 - 126)
4-Bromofluorobenzene	95	(75 - 115)
Toluene-d8	96	(78 - 118)

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Client Sample ID: MW-2

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Lot-Sample #:	D6K160291-002	Work	Order #:	JJV4Q1AD	Matrix	WATER
Date Sampled:	11/14/06 17:00	Date	Received:	11/16/06		

Prep Date....: 11/20/06 Analysis Date..: 11/20/06 Prep Batch #...: 6325194 Analysis Time..: 13:44

Dilution Factor: 5 Method..... SW846 8260B

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PARAMETER	RESULT	LIMIT	UNITS	MDL	1
Benzene	23	5.0	ug/L	0.80	
Ethylbenzene	29	5.0	ug/L	0.80	
Toluene	6.6	5.0	ug/L	0.85	

ug/L

0.95

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(79 - 119)
1,2-Dichloroethane-d4	84	(65 - 126)
4-Bromofluorobenzene	99	(75 - 115)
Toluene-d8	96	(78 - 118)

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Client Sample ID: MW-3

GC/MS Volatiles

Lot-Sample #: D6K160291-003	Work Order #: JJV4V1AD	Matrix WATER
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 Date Sampled...:
 11/14/06 15:30 Date Received..:
 11/16/06

 Prep Date....:
 11/20/06
 Analysis Date..:
 11/20/06

 Prep Batch #...:
 6325194
 Analysis Time..:
 14:51

Dilution Factor: 1

Method.....: SW846 8260B

		REPORTIN			
PARAMETER	RESULT LIMIT		UNITS	MDL	
Benzene	ND	1.0	ug/L	0.16	
Ethylbenzene	ND	1.0	ug/L	0.16	
Toluene	ND	1.0	ug/L	0.17	
Xylenes (total)	ND	2.0	ug/L	0.19	

SURROGATE	PERCENT	RECOVERY LIMITS	
Dibromofluoromethane	102	(79 - 119)	
1,2-Dichloroethane-d4	81	(65 - 126)	
4-Bromofluorobenzene	91	(75 - 115)	
Toluene-d8	90	(78 - 118)	
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Client Sample ID: MW-4

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Lot-Sample #...: D6K160291-004 Work Order #...: JJV411AD Matrix..... WATER

 Date Sampled...:
 11/14/06
 16:45
 Date Received...:
 11/16/06

 Prep Date....:
 11/20/06
 Analysis Date...:
 11/20/06

 Prep Batch #...:
 6325194
 Analysis Time...:
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Dilution Factor: 1

Method....: SW846 8260B

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(78 - 118)

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PARAMETER	RESULT	LIMIT	UNITS	MDL
Benzene	1.1	1.0	ug/L	0.16
Ethylbenzene	ND	1.0	ug/L	0.16
Toluene	ND	1.0	ug/L	0.17
Xylenes (total)	ND	2.0	ug/L	0.19
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Dibromofluoromethane	97	(79 - 11	9)	
1,2-Dichloroethane-d4	80	(65 - 12	6)	

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4-Bromofluorobenzene

Toluene-d8

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Client Sample ID: MW-5

GC/MS Volatiles

Lot-Sample #:	D6K160291-005	Work Order	#: JJV441AD	Matrix:	WATER

Date Sampled...: 11/14/06 15:15 Date Received..: 11/16/06 Prep Date....: 11/20/06 Analysis Date..: 11/20/06 Prep Batch #...: 6325194 Analysis Time..: 15:37

Dilution Factor: 1

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PARAMETER	RESULT	LIMIT	UNITS	MDL	
Benzene	ND	1.0	ug/L	0.16	
Ethylbenzene	ND	1.0	ug/L	0.16	
Toluene	ND	1.0	ug/L	0.17	
Xylenes (total)	ND	2.0	ug/L	0.19	

Maria - Art.	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Dibromofluoromethane	93	(79 - 119)
1,2-Dichloroethane-d4	80	(65 - 126)
4-Bromofluorobenzene	90	(75 - 115)
Toluene-d8	89	(78 - 118)

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Client Sample ID: DUPLICATE

GC/MS Volatiles

Lot-Sample #:	D6K160291-006	Work Order #: JJV451AD	Matrix: WATER

 Date Sampled...:
 11/14/06
 17:30
 Date Received...:
 11/16/06

 Prep Date....:
 11/20/06
 Analysis Date...:
 11/20/06

 Prep Batch #...:
 6325194
 Analysis Time...:
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PARAMETER	RESULT	LIMIT	UNITS	MDL	
Benzene	45	10	ug/L	1.6	
Ethylbenzene	57	10	ug/L	1.6	
Toluene	12	10	ug/L	1.7	
Xylenes (total)	220	20	ug/L	1.9	

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(79 - 119)
1,2-Dichloroethane-d4	84	(65 - 126)
4-Bromofluorobenzene	98	(75 - 115)
Toluene-d8	98	(78 - 118)

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D6K160291-007 Work Order #...: JJV5M1AA Matrix..... WATER

Date Sampled...: 11/15/06 16:00 Date Received..: 11/16/06 Prep Date....: 11/20/06 Analysis Date..: 11/20/06 Prep Batch #...: 6325194 Analysis Time..: 15:59

Dilution Factor: 1

Method.....: SW846 8260B

	RE	PO	RT	IN	G
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PARAMETER	RESULT	LIMIT	UNITS	MDL	
Benzene	ND	1.0	ug/L	0.16	
Ethylbenzene	ND	1.0	ug/L	0.16	
Toluene	ND	1.0	ug/L	0.17	
Xylenes (total)	ND	2.0	ug/L	0.19	

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Dibromofluoromethane	97	(79 - 119)
1,2-Dichloroethane-d4	82	(65 - 126)
4-Bromofluorobenzene	95	(75 - 115)
Toluene-d8	93	(78 - 118)

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Client Sample ID: MW-1

GC/MS Semivolatiles

Lot-Sample #: D6K16029	-001 Work Order	: JJV301AA	Matrix WATE	R
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 Date Sampled...:
 11/15/06 08:30
 Date Received...:
 11/16/06

 Prep Date.....:
 11/17/06
 Analysis Date...:
 11/22/06

 Prep Batch #...:
 6321200
 Analysis Time...:
 21:38

Dilution Factor: 1

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Method..... SW846 8270C

APRICATION		REPORTING			
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Acenaphthene	ND	10	ug/L	1.7	ATT TO A
Acenaphthylene	ND	10	ug/L	1.8	
Anthracene	ND	10	ug/L	1.9	
Benzo(a) anthracene	ND	10	ug/L	1.7	
Benzo(b) fluoranthene	ND	10	ug/L	0.39	
Benzo(k) fluoranthene	ND	10	ug/L	0.46	
Benzo(ghi)perylene	ND	10	ug/L	1.0	
Benzo(a) pyrene	ND	10	ug/L	1.3	
Chrysene	ND	10	ug/L	1.0	
Dibenz(a,h)anthracene	ND	10	ug/L	1.4	
Fluoranthene	ND	10	ug/L	5.0	
Fluorene	ND	10	ug/L	1.0	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	1.5	
2-Methylnaphthalene	ND	10	ug/L	1.6	
1-Methylnaphthalene	ND	10	ug/L	1.7	
Naphthalene	ND	10	ug/L	1.5	
Phenanthrene	ND	10	ug/L	1.0	
Pyrene	ND	10	ug/L	0.37	
VI. espaje je jeriju z 1000 je					
	PERCENT	RECOVERY			
SURROGATE	RECOVERY	LIMITS			
2-Fluorophenol	92	(40 - 120)			
Phenol-d5	91	(51 - 120)			
Nitrobenzene-d5	93	(47 - 120)			
2-Fluorobiphenyl	87	(42 - 120)			
2,4,6-Tribromophenol	87	(47 - 120)			
Terphenyl-d14	100	(30 - 127)			

Client Sample ID: MW-2

GC/MS Semivolatiles

Lot-Sample #: D6K160291-002	Work Order #: JJV4Q1AA	Matrix WATER
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Date Sampled...: 11/14/06 17:00 Date Received..: 11/16/06 Prep Date....: 11/17/06 Analysis Date..: 11/22/06 Prep Batch #...: 6321200 Analysis Time..: 21:58

Dilution Factor: 1

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Name of the second	Method	: SW846 82	70C		
		REPORTIN	IG .		
PARAMETER	RESULT	LIMIT	UNITS	MDL	VALUE OF THE PARTY
Acenaphthene	ND	10	ug/L	1.7	
Acenaphthylene	ND	10	ug/L	1.8	
Anthracene	ND	10	ug/L	1.9	
Benzo(a) anthracene	ND	10	ug/L	1.7	
Benzo(b) fluoranthene	ND	10	ug/L	0.39	
Benzo(k) fluoranthene	ND	10	ug/L	0.46	
Benzo (ghi) perylene	ND	10	ug/L	1.0	
Benzo(a) pyrene	ND	10	ug/L	1.3	
Chrysene	ND	10	ug/L	1.0	
Dibenz(a,h)anthracene	ND	10	ug/L	1.4	
Fluoranthene	ND	10	ug/L	5.0	
Fluorene	ND	10	ug/L	1.0	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	1.5	
2-Methylnaphthalene	ND	10	ug/L	1.6	
1-Methylnaphthalene	ND	10	ug/L	1.7	
Naphthalene	ND	10 .	ug/L	1.5	
Phenanthrene	ND	10	ug/L	1.0	
Pyrene	ND	10	ug/L	0.37	
	PERCENT	RECOVERY	The Samuel Control		
SURROGATE	RECOVERY	LIMITS			
2-Fluorophenol	94	(40 - 12	20)		
Phenol-d5	94	(51 - 12)	20)		
Nitrobenzene-d5	92	(47 - 12	20)		
2-Fluorobiphenyl	91	(42 - 12	20)		
2,4,6-Tribromophenol	101	(47 - 12	20)		
Terphenyl-d14	97	(30 - 12	27)		The state of

Client Sample ID: MW-3

GC/MS Semivolatiles

Lot-Sample #: D6K160291-003	Work Order #: JJV4V1AA	Matrix WATER
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 Date Sampled...:
 11/14/06
 15:30
 Date Received...:
 11/16/06

 Prep Date....:
 11/17/06
 Analysis Date...:
 11/22/06

 Prep Batch #...:
 6321200
 Analysis Time...:
 22:19

Dilution Factor: 1

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Method.....: SW846 8270C

Haracon Control of the Control of th		REPORTIN			
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Acenaphthene	ND	10	ug/L	1.7	
Acenaphthylene	ND	10	ug/L	1.8	
Anthracene	ND	10	ug/L	1.9	
Benzo(a)anthracene	ND	10	ug/L	1.7	
Benzo(b) fluoranthene	ND	10	ug/L	0.39	
Benzo(k) fluoranthene	ND	10	ug/L	0.46	
Benzo(ghi)perylene	ND	10	ug/L	1.0	
Benzo(a)pyrene	ND	10	ug/L	1.3	
Chrysene	ND	10	ug/L	1.0	
Dibenz(a,h)anthracene	ND	10	ug/L	1.4	
Fluoranthene	ND	1.0	ug/L	5.0	
Fluorene	ND	10	ug/L	1.0	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	1.5	
2-Methylnaphthalene	ND	10	ug/L	1.6	
1-Methylnaphthalene	ND	10	ug/L	1.7	:
Naphthalene	ND	10	ug/L	1.5	
Phenanthrene	ND	10	ug/L	1.0	
Pyrene	ND	10	ug/L	0.37	
Slavegei, Alban - Morellon					
	PERCENT	RECOVERY	7		
SURROGATE	RECOVERY	LIMITS			
2-Fluorophenol	87	(40 - 12	20)		
Phenol-d5	92	(51 - 12	20)		
Nitrobenzene-d5	94	(47 - 12	20)		
2-Fluorobiphenyl	86	(42 - 12	20)		
2,4,6-Tribromophenol	80	(47 - 12	20)		
Terphenyl-d14	99	(30 - 12	27)		
Busselvite for the property of					
warin in					
Superior Superior Superior					
Cartiful Alberta					

Client Sample ID: MW-4

GC/MS Semivolatiles

Lot-Sample #: D	6K160291-004 Wor	rk Order #.	: JJV411AA	Matrix:	WATER

Date Sampled...: 11/14/06 16:45 Date Received..: 11/16/06
Prep Date....: 11/17/06 Analysis Date..: 11/22/06
Prep Batch #...: 6321200 Analysis Time..: 22:39

Dilution Factor: 1

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Method....: SW846 8270C

A SECTION AND A SECTION AS					
		REPORTIN	IG		
PARAMETER	RESULT	LIMIT	UNITS	MDL	A Marchael
Acenaphthene	ND	10	ug/L	1.7	
Acenaphthylene	ND	10	ug/L	1.8	
Anthracene	ND	10	ug/L	1.9	
Benzo(a) anthracene	ND	10	ug/L	1.7	
Benzo(b) fluoranthene	ND	10	ug/L	0.39	
Benzo(k) fluoranthene	ND	10	ug/L	0.46	
Benzo(ghi)perylene	ND	10	ug/L	1.0	
Benzo(a) pyrene	ND	10	ug/L	1.3	
Chrysene	ND	10	ug/L	1.0	
Dibenz(a,h)anthracene	ND	10	ug/L	1.4	15
Fluoranthene	ND	10	ug/L	5.0	
Fluorene	ND	10	ug/L	1.0	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	1.5	
2-Methylnaphthalene	ND	10	ug/L	1.6	
1-Methylnaphthalene	ND	10	ug/L	1.7	
Naphthalene	ND	. 10	ug/L	1.5	
Phenanthrene	ND .	10	ug/L	1.0	
Pyrene	ND	10	ug/L	0.37	
West and a view of	PERCENT	RECOVERY			
SURROGATE	RECOVERY	LIMITS			
2-Fluorophenol	85	(40 - 12	(0)		

SURROGATE	RECOVERY	LIMITS	
2-Fluorophenol	85	(40 - 120)	
Phenol-d5	8.7	(51 - 120)	
Nitrobenzene-d5	86	(47 - 120)	
2-Fluorobiphenyl	72	(42 - 120)	
2,4,6-Tribromophenol	74	(47 - 120)	
Terphenyl-d14	97	(30 - 127)	

Client Sample ID: MW-5

GC/MS Semivolatiles

	GC/MS Semitvolatiles	
Lot-Sample #: D6K160291-005	Work Order #: JJV441AA	Matrix WATER

Date Sampled...: 11/14/06 15:15 Date Received..: 11/16/06 Prep Date....: 11/17/06 Analysis Date..: 11/22/06 Prep Batch #...: 6321200 Analysis Time..: 22:59

Dilution Factor: 1 Method....: SW846 8270C

		REPORTIN	IG	
PARAMETER	RESULT	LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	1.7
Acenaphthylene	ND	10	ug/L	1.8
Anthracene	ND	10	ug/L	1.9
Benzo(a)anthracene	ND	10	ug/L	1.7
Benzo(b) fluoranthene	ND	10	ug/L	0.39
Benzo(k) fluoranthene	ND	10	ug/L	0.46
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	1.3
Chrysene	ND	10	ug/L	1.0
Dibenz(a,h)anthracene	ND	10	ug/L	1.4
Fluoranthene	ND	10	ug/L	5.0
Fluorene	ND	10	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	1.5
2-Methylnaphthalene	ND	10	ug/L	1.6
l-Methylnaphthalene	ND	10	ug/L	1.7
Naphthalene	ND	10	ug/L	1.5
Phenanthrene	ND	10	ug/L	1.0
Pyrene	ND	10	ug/L	0.37
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
2-Fluorophenol	87	(40 - 12	20)	
Phenol-d5	90	(51 - 12	20)	
Nitrobenzene-d5	88	(47 - 12	20)	

SURROGATE	RECOVERY	LIMITS	
2-Fluorophenol	87	(40 - 120)	
Phenol-d5	90	(51 - 120)	
Nitrobenzene-d5	88	(47 - 120)	
2-Fluorobiphenyl	70	(42 - 120)	
2,4,6-Tribromophenol	77	(47 - 120)	
Terphenyl-d14	97	(30 - 127)	
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Client Sample ID: MW-1

General Chemistry

Lot-Sample #...: D6K160291-001 Work Order #...: JJV30

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Date Sampled...: 11/15/06 08:30 Date Received..: 11/16/06

Matrix..... WATER

Client Sample ID: MW-2

General Chemistry

Lot-Sample #...: D6K160291-002

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Work Order #...: JJV4Q Matrix..... WATER

Date Sampled...: 11/14/06 17:00 Date Received..: 11/16/06

PARAMETER PREPARATION- PREP RESULT UNITS METHOD RL Chloride ANALYSIS DATE BATCH # 3.0 mg/L 50 MCAWW 300.0A 11/17/06 6322112 Dilution Factor: 1 Analysis Time..: 21:53 MDL..... 0.25

Client Sample ID: MW-3

General Chemistry

Lot-Sample #...: D6K160291-003 Work Order #...: JJV4V Matrix....: WATER

Date Sampled...: 11/14/06 15:30 Date Received..: 11/16/06

PREPARATION-PREP

PARAMETER Chloride 39

RESULT

RL UNITS

METHOD

ANALYSIS DATE BATCH # 3.0 mg/L MCAWW 300.0A 11/17/06 6322112

Dilution Factor: 1

Analysis Time..: 22:25 MDL..... 0.25

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ConocoPhillips Company

Client Sample ID: MW-4

General Chemistry

Lot-Sample #...: D6K160291-004 Work Order #...: JJV41
Date Sampled...: 11/14/06 16:45 Date Received..: 11/16/06

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at the party

Matrix..... WATER

PREPARATION- PREP METHOD PARAMETER RESULT RL UNITS ANALYSIS DATE BATCH # 3.0 mg/L MCAWW 300.0A 11/17/06 6322112 Chloride 44

Dilution Factor: 1

Analysis Time..: 22:56 MDL...... 0.25

ConocoPhillips Company

Client Sample ID: MW-5

General Chemistry

Lot-Sample #...: D6K160291-005

Work Order #...: JJV44

Matrix....: WATER

Date Sampled...: 11/14/06 15:15 Date Received..: 11/16/06

PREPARATION-PREP

PARAMETER

RESULT

UNITS

METHOD MCAWW 300.0A ANALYSIS DATE BATCH # 11/17-11/18/06 6322112

Chloride

79 Q

15 mg/L

Dilution Factor: 5

Analysis Time..: 00:15

MDL..... 1.3

NOTE(S):

RL Reporting Limit

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Fred & James H.

Arabaya Marabaya

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

QC DATA ASSOCIATION SUMMARY

D6K160291

Sample Preparation and Analysis Control Numbers

		ANALY	FICAL	LEACH	PREP	
SAMPLE#	MATRIX	METHO	0	BATCH #	BATCH #	MS RUN#
001	WATER	MCAWW	300.0A		6322112	6322092
	WATER	SW846	8260B		6325194	6325153
	WATER	SW846	8270C		6321200	6321123
002	WATER	MCAWW	300.0A		6322112	6322092
	WATER	SW846	8260B		6325194	6325153
	WATER	SW846	8270C		6321200	6321123
003	WATER	MCAWW	300.0A		6322112	6322092
	WATER	SW846	8260B		6325194	6325153
	WATER	SW846	8270C		6321200	6321123
004	WATER	MCAWW	300.0A		6322112	6322092
	WATER	SW846	8260B		6325194	6325153
	WATER	SW846	8270C		6321200	6321123
005	WATER	MCAWW	300.0A		6322112	6322092
21.5	WATER	SW846	8260B		6325194	6325153
	WATER	SW846	8270C		6321200	6321123
Fried by Jacob	v. *					
006 SAULTUS	WATER	SW846	8260B		6325194	6325153
007	WATER	SW846	8260B		6325194	6325153
" 13."						

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D6K160291

Work Order #...: JJ5VX1AA

Matrix..... WATER

MB Lot-Sample #: D6K210000-194

Prep Date....: 11/20/06 Prep Batch #...: 6325194

Analysis Time..: 08:23

Analysis Date..: 11/20/06

Dilution Factor: 1

REPORTING

PARAMETER	RESULT	LIMIT	UNITS	METHOD	
Benzene	ND	1.0	ug/L	SW846 826	50B
Ethylbenzene	ND	1.0	ug/L	SW846 826	50B
Toluene	ND	1.0	ug/L	SW846 826	50B
Xylenes (total)	ND	2.0	ug/L	SW846 826	50B
	PERCENT	RECOVER	Y		
SURROGATE	RECOVERY	LIMITS			
Dibromofluoromethane	106	(79 - 119)			
1,2-Dichloroethane-d4	89	(65 - 126)			
4-Bromofluorobenzene	100	(75 - 115)			
Toluene-d8	99	(78 - 13	18)		

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D6K160291 Work Order #...: JJ5VX1AC Matrix....: WATER

LCS Lot-Sample#: D6K210000-194

Prep Date....: 11/20/06 Analysis Date..: 11/20/06 Prep Batch #...: 6325194 Analysis Time..: 08:00

Dilution Factor: 1

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The Part of the Control of the Contr	PERCENT	RECOVERY		
PARAMETER	RECOVERY	LIMITS	METHOD	
1,1-Dichloroethene	127	(68 - 133)	SW846 8260B	
Chlorobenzene	96	(78 - 118)	SW846 8260B	
Benzene	116	(77 - 118)	SW846 8260B	
Trichloroethene	119	(78 - 122)	SW846 8260B	
Toluene	94	(73 - 120)	SW846 8260B	
		To below Alberta week		

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Dibromofluoromethane	101	(79 - 119)
1,2-Dichloroethane-d4	85	(65 - 126)
4-Bromofluorobenzene	92	(75 - 115)
Toluene-d8	93	(78 - 118)

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D6K160291

Work Order #...: JJ5VX1AC

Matrix..... WATER

LCS Lot-Sample#: D6K210000-194

Prep Date....: 11/20/06

Analysis Date..: 11/20/06

Prep Batch #...: 6325194

Analysis Time..: 08:00

Dilution Factor: 1

Page Buckey

	SPIKE	MEASURED		PERCENT	
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	METHOD
1,1-Dichloroethene	10.0	12.7	ug/L	127	SW846 8260B
Chlorobenzene	10.0	9.60	ug/L	96	SW846 8260B
Benzene	10.0	11.6	ug/L	116	SW846 8260B
Trichloroethene	10.0	11.9	ug/L	119	SW846 8260B
Toluene	10.0	9.40	ug/L	94	SW846 8260B

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Dibromofluoromethane	101	(79 - 119)
1,2-Dichloroethane-d4	85	(65 - 126)
4-Bromofluorobenzene	92	(75 - 115)
Toluene-d8	93	(78 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D6K160291 Work Order #...: JJRVP1A6-MS Matrix..... WATER

MS Lot-Sample #: D6K150362-001 JJRVP1A7-MSD

 Date Sampled...:
 11/14/06 16:00 Date Received..:
 11/15/06

 Prep Date....:
 11/20/06
 Analysis Date..:
 11/20/06

 Prep Batch #...:
 6325194
 Analysis Time..:
 12:59

Dilution Factor: 4

And the American Street Street Street	PERCENT	RECOVERY		RPD		
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHO	D
1,1-Dichloroethene	115	(68 - 133)	-	- 11 13	SW846	8260B
	123	(68 - 133)	6.5	(0-20)	SW846	8260B
Chlorobenzene	0.0 a	(78 - 118)			SW846	8260B
	35 a	(78 - 118)	0.0	(0-20)	SW846	8260B
Benzene	97	(77 - 118)			SW846	8260B
AND A CANADA	107	(77 - 118)	7.7	(0-20)	SW846	8260B
Trichloroethene	102	(78 - 122)			SW846	8260B
	107	(78 - 122)	5.4	(0-20)	SW846	8260B
Toluene	80	(73 - 120)			SW846	8260B
	87	(73 - 120)	8.1	(0-20)	SW846	8260B
423. 4. 4. 4. 4. 4	4					
		PERCENT		RECOVERY		
SURROGATE		RECOVERY		LIMITS		
Dibromofluoromethane		80		(79 - 119)		
The second test and the second						

SURROGATE	RECOVERY		LIMITS		
Dibromofluoromethane	80		(79 - 119)		
A CONTRACT OF STREET	93		(79 - 119)		
1,2-Dichloroethane-d4	64 *		(65 - 126)		
Dang Bay Leep Land Control	75	3 7 7 8	(65 - 126)		
4-Bromofluorobenzene	76		(75 - 115)		
	89		(75 - 115)		
Toluene-d8	79		(78 - 118)		
	92		(78 - 118)		

NOTE (S):

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Attended the

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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a Spiked analyte recovery is outside stated control limits.

^{*} Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D6K160291 Work Order #...: JJRVP1A6-MS Matrix..... WATER

Prep Date....: 11/20/06
Prep Batch #...: 6325194

Analysis Time..: 12:59

Dilution Factor: 4

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Carried to the territory	SAMPLE	SPIKE	MEASRD		PERCNT		
PARAMETER	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	40.0	46.1	ug/L	115	16	SW846 8260B
	ND	40.0	49.2	ug/L	123	6.5	SW846 8260B
Chlorobenzene	470	40.0	409	ug/L	0.0 a		SW846 8260B
	470	40.0	480	ug/L	35 a	0.0	SW846 8260B
Benzene	8.5	40.0	47.4	ug/L	97		SW846 8260B
and the same and	8.5	40.0	51.2	ug/L	107	7.7	SW846 8260B
Trichloroethene	ND	40.0	40.7	ug/L	102		SW846 8260B
YAMA AND A FEBRUARY	ND	40.0	43.0	ug/L	107	5.4	SW846 8260B
Toluene	ND	40.0	32.8	ug/L	80		SW846 8260B
	ND	40.0	35.6	ug/L	87	8.1	SW846 8260B
The same of the sa		D.	PDCPNT		DECOMEDY		

	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Dibromofluoromethane	80	(79 - 119)		
	93	(79 - 119)		
1,2-Dichloroethane-d4	64 *	(65 - 126)		
Charles Message in the contract of the contrac	75	(65 - 126)		
4-Bromofluorobenzene	76	(75 - 115)		
wwp.wstripek.unrount.com	89	(75 - 115)		
Toluene-d8	79	(78 - 118)		
	92	(78 - 118)		
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NOTE (S):

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Calculations are performed before rounding to avoid round-off errors in calculated results.

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a Spiked analyte recovery is outside stated control limits.

^{*} Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D6K160291

MB Lot-Sample #: D6K170000-200

Work Order #...: JJXGV1AA

Matrix....: WATER

Analysis Date..: 11/22/06

Prep Date....: 11/17/06 Prep Batch #...: 6321200

Analysis Time..: 20:57

Dilution Factor: 1

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The second secon		REPORTING			
PARAMETER	RESULT	LIMIT	UNITS	METHOD)
Acenaphthene	ND	10	ug/L	SW846	8270C
Acenaphthylene	ND	10	ug/L	SW846	8270C
Anthracene	ND	10	ug/L	SW846	8270C
Benzo(a) anthracene	ND	10	ug/L	SW846	8270C
Benzo(b) fluoranthene	ND	10	ug/L	SW846	8270C
Benzo(k) fluoranthene	ND	10	ug/L	SW846	8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846	8270C
Benzo(a) pyrene	ND	10	ug/L	SW846	8270C
Chrysene	ND	10	ug/L	SW846	8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846	8270C
Fluoranthene	ND	10	ug/L	SW846	8270C
Fluorene	ND	. 10	ug/L	SW846	8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846	8270C
2-Methylnaphthalene	ND	10	ug/L	SW846	8270C
1-Methylnaphthalene	ND	10	ug/L	SW846	8270C
Naphthalene	ND .	10	ug/L	SW846	8270C
Phenanthrené	ND	10	ug/L	SW846	8270C
Pyrene	ND	10	ug/L	SW846	8270C
	PERCENT	RECOVER	Y		
SURROGATE	RECOVERY	LIMITS			
2-Fluorophenol	90	(40 - 1:	20)		
Phenol-d5	95	(51 - 1:	20)		
Nitrobenzene-d5	95	(47 - 12	20)		
2-Fluorobiphenyl	83	(42 - 13	20)		
2,4,6-Tribromophenol	83	(47 - 12	20)		
Terphenyl-d14	108	(30 - 1	27)		

NOTE(S):

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Calculations are performed before rounding to avoid round-off errors in calculated results. Terror at was a li Way seaso

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #: D6K160291	Work Order #: JJXGV1AC	Matrix: WATER
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LCS Lot-Sample#: D6K170000-200

Analysis Date..: 11/22/06 Prep Date....: 11/17/06 Prep Batch #...: 6321200 Analysis Time..: 21:17

Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	
4-Chloro-3-methylphenol	97	(57 - 120)	SW846 8270C	
2-Chlorophenol	94	(55 - 120)	SW846 8270C	
Acenaphthene	98	(52 - 120)	SW846 8270C	
1,4-Dichlorobenzene	77	(36 - 120)	SW846 8270C	
2,4-Dinitrotoluene	101	(54 - 120)	SW846 8270C	
4-Nitrophenol	83	(48 - 120)	SW846 8270C	
N-Nitrosodi-n-propyl- amine	96	(52 - 120)	SW846 8270C	
Pentachlorophenol	84	(50 - 120)	SW846 8270C	
Phenol	94	(54 - 120)	SW846 8270C	
1,2,4-Trichloro-	82	(39 - 120)	SW846 8270C	
benzene				
Pyrene	109	(52 - 120)	SW846 8270C	
		PERCENT	RECOVERY	
SURROGATE		RECOVERY	LIMITS	1 1 1 1 1 1 1
2-Fluorophenol		94	(54 - 120)	
Phenol-d5		100	(56 - 120)	
Nitrobenzene-d5		101	(55 - 120)	
2-Fluorobiphenyl		94	(43 - 120)	

97

115

(53 - 120)

(54 - 122)

NOTE (S):

Terphenyl-d14

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters ALP DESCRIPTION OF THE

2,4,6-Tribromophenol

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Matrix..... WATER Client Lot #...: D6K160291 Work Order #...: JJXGV1AC

LCS Lot-Sample#: D6K170000-200

Prep Date....: 11/17/06 Analysis Date..: 11/22/06 Prep Batch # ...: 6321200 Analysis Time..: 21:17

Dilution Factor: 1

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A ROUND AND A STATE OF	SPIKE	MEASURED		PERCENT	
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	METHOD
4-Chloro-3-methylphenol	150	146	ug/L	97	SW846 8270C
2-Chlorophenol	150	142	ug/L	94	SW846 8270C
Acenaphthene	100	98.4	ug/L	98	SW846 8270C
1,4-Dichlorobenzene	100	77.0	ug/L	77	SW846 8270C
2,4-Dinitrotoluene	100	101	ug/L	101	SW846 8270C
4-Nitrophenol	150	124	ug/L	83	SW846 8270C
N-Nitrosodi-n-propyl- amine	100	96.0	ug/L	96	SW846 8270C
Pentachlorophenol	150	126	ug/L	84	SW846 8270C
Phenol	150	141	ug/L	94	SW846 8270C
1,2,4-Trichloro- benzene	100	82.4	ug/L	82	SW846 82700
Pyrene	100	109	ug/L	109	SW846 8270C
		PERCENT	RECOVERY		
SURROGATE		RECOVERY	LIMITS		
2-Fluorophenol		94	(54 - 120)		
Phenol-d5		100	(56 - 120)		
Nitrobenzené-d5		101	(55 - 120)		
2-Fluorobiphenyl		94	(43 - 120)		
2,4,6-Tribromophenol		97	(53 - 120)		
Terphenyl-d14		115	(54 - 122)	1 4.	
				· () ()	
NOTE(S):		TALL SHIP IN			
Calculations are performed before rounding to avoid roun	d-off errors in calculate	d results.		7 C. C. C.	14814 85 14
Bold print denotes control parameters			** * .		
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NOTE(S):

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6K160291 Matrix....: WATER Work Order #...: JJWGR1DL-MS

MS Lot-Sample #: D6K160337-002 JJWGR1DM-MSD

Date Sampled...: 11/15/06 11:55 Date Received..: 11/16/06 Prep Date....: 11/17/06 Analysis Date..: 11/23/06

Prep Batch #...: 6321200 Analysis Time..: 00:00

Dilution Factor: 1

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A AND THE WA	PERCENT	RECOVERY		RPD			1111
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHO	D	
4-Chloro-3-methylphenol	92	(54 - 120)			SW846	8270C	
Profession of the first	85	(54 - 120)	10	(0~59)	SW846	8270C	1 1000
2-Chlorophenol	96	(50 - 120)			SW846	8270C	
1.2.2.2.2.3	95	(50 - 120)	4.4	(0-47)	SW846	8270C	
Acenaphthene	102	(49 - 120)			SW846	8270C	
74. 44.	93	(49 - 120)	13	(0-42)	SW846	8270C	
1,4-Dichlorobenzene	85	(40 - 120)			SW846	8270C	
	78	(40 - 120)	11	(0-52)	SW846	8270C	
2,4-Dinitrotoluene	110	(52 - 120)			SW846	8270C	4
MATERIAL DE LA COMPANIE DE LA COMPAN	97	(52 - 120)	16	(0-47)	SW846	8270C	THE WAY
4-Nitrophenol	92	(40 - 122)			SW846	8270C	
A Committee of the comm	86	(40 - 122)	9.3	(0-61)	SW846	8270C	
N-Nitrosodi-n-propyl- amine	96	(44 - 120)			SW846	8270C	
Light parties of the	95	(44 - 120)	4.4	(0-45)	SW846	8270C	* 4 " 4 "
Pentachlorophenol	90	(48 - 120)			SW846	8270C	
TRATE VALUE OF THE PARTY OF THE	81	(48 - 120)	13	(0-50)	SW846	8270C	
Phenol	94	(46 - 120)			SW846	8270C	* *:::
Hijittipe Personer	92	(46 - 120)	5.8	(0-47)	SW846	8270C	
1,2,4-Trichloro- benzene	92	(46 - 120)			SW846	8270C	
「APMOSTRON」 、- Office on a septing for a con-	81	(46 - 120)	16	(0-50)	SW846	8270C	
Pyrene	112	(35 - 122)			SW846	8270C	
residente production	104	(35 - 122)	10	(0-58)	SW846	8270C	
CHARGER WEIGH		PERCENT		RECOVERY			
SURROGATE		RECOVERY		LIMITS			
2-Fluorophenol		95		(40 - 120)		
		93		(40 - 120			
Phenol-d5		100		(51 - 120			
		99		(51 - 120			
Nitrobenzene-d5		102		(47 - 120			
		100		(47 - 120			
2-Fluorobiphenyl		97		(42 - 120			
20 des		92		(42 - 120)			
2,4,6-Tribromophenol		98		(47 - 120			
X 2 m Language To		87		(47 - 120)			
MANUSCATE CONTRACTOR				(47 - 120	,		
	((Continued on next	page)				

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6K160291 Work Order #...: JJWGR1DL-MS

Matrix....: WATER

MS Lot-Sample #: D6K160337-002

JJWGR1DM-MSD

	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
estimate to the			
Terphenyl-d14	118	(30 - 127)	
MARKET CALL AND	109	(30 - 127)	

NOTE (S) :

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D6K160291 Work Order #...: JJWGR1DL-MS Matrix..... WATER

MS Lot-Sample #: D6K160337-002 JJWGR1DM-MSD

 Date Sampled...:
 11/15/06
 11:55
 Date Received...:
 11/16/06

 Prep Date....:
 11/17/06
 Analysis Date...:
 11/23/06

 Prep Batch #...:
 6321200
 Analysis Time...:
 00:00

Dilution Factor: 1

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	SAMPLE	SPIKE	MEASRD		PERCNI			
PARAMETER	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOI	
4-Chloro-3-methylphenol	ND	153	140	ug/L	92		SW846	8270C
	ND	148	127	ug/L	85	10	SW846	8270C
2-Chlorophenol	ND	153	148	ug/L	96		SW846	8270C
	ND	148	141	ug/L	95	4.4	SW846	8270C
Acenaphthene	ND	102	104	ug/L	102		SW846	8270C
	ND	98.9	91.7	ug/L	93	13	SW846	8270C
1,4-Dichlorobenzene	ND	102	86.4	ug/L	85		SW846	8270C
	ND	98.9	77.3	ug/L	78	11	SW846	8270C
2,4-Dinitrotoluene	ND	102	112	ug/L	110		SW846	8270C
	ND	98.9	95.5	ug/L	97	16	SW846	8270C
4-Nitrophenol	ND	153	141	ug/L	92		SW846	8270C
	ND	148	128	ug/L	86	9.3	SW846	8270C
N-Nitrosodi-n-propyl- amine	ND	102	98.3	ug/L	96		SW846	8270C
Rappitalist ()	ND	98.9	94.1	ug/L	95	4.4	SW846	8270C
Pentachlorophenol	ND	153	138	ug/L	90		SW846	8270C
# Mariana Tarana	ND	148	121	ug/L	81	13	SW846	8270C
Phenol	ND	153	144	ug/L	94		SW846	8270C
What area as persons	ND	148	136	ug/L	92	5.8	SW846	8270C
1,2,4-Trichloro-	ND	102	94.0	ug/L	92		SW846	8270C
benzene								
Warden be meany control	ND	98.9	80.0	ug/L	81	16	SW846	8270C
Pyrene	ND	102	114	ug/L	112		SW846	8270C
A CONTRACT DESIGNATION OF THE CONTRACT OF THE	ND	98.9	1.03	ug/L	104	10	SW846	8270C
				: -				
STATE CLEAN			PERCENT		RECOVERY			
SURROGATE			RECOVERY		LIMITS	_		
2-fluorophenol	· alle		95		(40 - 120)		
			93		(40 - 120)		
Phenol-d5			100		(51 - 120)		Transfer of the
			99		(51 - 120)		
Nitrobenzene-d5			102		(47 - 120	0)		
			100		(47 - 120			
2-Fluorobiphenyl			97		(42 - 120			
x 80 - 34			92		(42 - 120			
2,4,6-Tribromophenol			98		(47 - 120			1 1 1 1
			87		(47 - 120	-		
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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D6K160291 Work Order #...: JJWGR1DL-MS Matrix....: WATER
MS Lot-Sample #: D6K160337-002 JJWGR1DM-MSD

 SURROGATE
 PERCENT RECOVERY LIMITS

 Terphenyl-d14
 118 (30 - 127)

 109 (30 - 127)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D6K160291

Matrix....: WATER

	PERCENT	RECOVERY	RPD		PREPARATION-	PREP
PARAMETER	RECOVERY	LIMITS RPD	LIMITS	METHOD	ANALYSIS DATE	BATCH #
Chloride		WO#:JJ2WC1AC	-LCS/JJ2	WC1AD-LCSD LCS	Lot-Sample#: D6K1	80000-112
	100	(90 - 110)		MCAWW 300.0A	11/17/06	6322112
	100	(90 - 110) 0.34	(0-10)	MCAWW 300.0A	11/17/06	6322112
		Dilution Fac	tor: 1	Analysis Time.	.: 20:34	

NOTE (S)

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D6K160291

Matrix....: WATER

	SPIKE	MEASURED		PERCNT				PREPARATION-	PREP
PARAMETER	AMOUNT	AMOUNT	UNITS	RECVRY	RPD	METHOI		ANALYSIS DATE	BATCH #
Chloride		WO#	:JJ2WC1AC	-LCS/JJ	2WC1AI	-LCSD	LCS Lot-	Sample#: D6K18000	0-112
	25.0	25.1	mg/L	100		MCAWW	300.0A	11/17/06	6322112
	25.0	25.0	mg/L	100	0.34	MCAWW	300.0A	11/17/06	6322112
		D	ilution Fact	or: 1	P	nalysis	Time: 20:	34	

NOTE (S):

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MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D6K160291 Matrix....: WATER

Date Sampled...: 11/08/06 11:00 Date Received..: 11/11/06

	PERCENT	RECOVERY	RPD		PREPARATION- PREP
PARAMETER	RECOVERY	LIMITS	RPD LIMITS	METHOD	ANALYSIS DATE BATCH #
Chloride		WO#:	JJH0W1C3-MS/	JJH0W1C4-MSD MS	Lot-Sample #: D6K110138-001
	104	(80 - 120)		MCAWW 300.0A	11/17-11/18/06 6322112
	106	(80 - 120)	1.6 (0-20)	MCAWW 300.0A	11/17-11/18/06 6322112
		Dilut	ion Factor: 1		
		Analy	ysis Time: 00:4	7	

NOTE(S):

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MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D6K160291

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Allenda Arrana Allenda

Jane 131 - Jane 141 - 14

Matrix....: WATER

Date Sampled...: 11/08/06 11:00 Date Received..: 11/11/06

PARAMETER Chloride	SAMPLE		MEASRD AMOUNT WO#:		PERCNT RECVRY /JJH0W10	RPD	METHOD MS Lot-Sam	PREPARATION- ANALYSIS DATE ple #: D6K110138	
	3.8	25.0	29.8	mg/L	104		MCAWW 300.0A	11/17-11/18/06	6322112
	3.8	25.0	30.3	mg/L	106	1.6	MCAWW 300.0A	11/17-11/18/06	6322112
			Dilut	on Factor: 1					

Dilution Factor: 1
Analysis Time..: 00:47

NOTE(S):

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Chain of Custody Record 2.9 IIIIdas 7.7 Pez Chain of custody number

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Client		8-8-1-11-18	Project Managei	 		1188	Da	te			in and	1000	
Tetra Tech/Maxim .			Kelly Her	nderson			1	0/25/2006	Page _	1	_ of _		_
Address Colol Indian Scho	al Pal NE		Telephone Num		/Fax Number			Location			4.00		
Address G121 Indian Scho 10601 Lomas N.E., Suite 106	Ste 200		(505) 23	7-8440 / (505) 237-8	3656	S	TL Denver		An	alysis		
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Federal Com #15 Tetra Tech									MMI SSC 88C 22L				
Contract/Purchase Order/Quote Number		E ACT V			error er	:			1761				
CONTRACT / PURCHASE ORDER # : PO#								QUOTE: 72923	doi				
Valuation / Louisians vinist ii , Louis	T			Co	ntainers			4001B. 12020	4774				
Sample I.D. Number and Description	Date	Time	Sample Type	Volume	Type	No.	Preservative	Condition on Receipt/Comments	117				
MW-1	11/15/06	0830	WATER	1L	AMBER	2	None		X				\vdash
MW-1	11/15/06	0430	WATER	40mL	VIAL	3	1:1 HCL		X				\vdash
MW-1	11/15/06	830	WATER	250mL	PLASTIC	1	None		X				
MW-2	11/14/06	1700	WATER	1L	AMBER	2	None		X				H
MW-2	11/14/06	1700	WATER	40mL	VIAL	3			X				
MW-2	11/14/06	1700	WATER	250mL	PLASTIC	1	None		1 X				
MW-3	11/1/2/106	1530	WATER	1L	AMBER	2	None	100000000000000000000000000000000000000	X				
MW-3	1114/06	1530	WATER	40mL	VIAL	3	1:1 HCL		X				
MW-3	11/14/010	1530	WATER	250mL	PLASTIC	1	None		X				
MW-4	11/14/06	1645	WATER	1T.	AMBER	2	None		X				
MW-4	11/14/06	1045	WATER	40mL	VIAL	3	1:1 HCL		X				
MW-4	11/14/06	1645	WATER	250mL	PLASTIC	1	None		X				
MW-5	11/14/06	1515	WATER	11.	AMBER	2	None		X				
MW-5	11/14/06	1515	WATER	40mL	VIAL	3	1:1 HCL		X				
_MW-5	11/14/06	1515		250mI.	PLASTIC	1	None		X				
DUPLICATE	1114106	1780	WATER	40mT.	VTAL.	3	1:1 HCL		X				
Special Instructions QUOTE 72923		8270/E	PAH, chloride			3277		0109543-00001 Line item					
Possible Hazard Identification #1				Sample Disp	neal								
Non-Hazard	n Irritant	Poison B			To Client			Archive For Months	(A fee ma retained lo	y be asse onger than			9
Turn Around Time Required			QC Lavel		Project	Specific	Requirements (S	Specify)					
Normal Rush Oth	er				- Land		/	2,1					
1. Relifiquished By			Date 11/15 /66	Time /600	1. Recei	ived By	Man	2 (Dignall)	10	ate		13QLIO	5
2. Relinquished by			Date	Time	2. Recei	ived By	Survey	1 poures 4	I D	ate /	/ 1	Time	To
3. Relinquished By			Date	Time	3. Recei	ived By			I D	ate	11	Time	
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Comments													

Chain of Custody Record

Chain of Custody			TRENT OII	_											
Record				ent Teht Laborator	ies	, In	c.								
TL4149 (1202)					 										
Client			Project Manage	,111 0 10111 1		11881	I Balli Bal								
etra Tech/Maxim			Kelly He	nderson	<i>E</i> 11 1		10	0/25/2006		Page	<u> </u>	2	of .		2
Address 6/2/ Indian School/ 0601 Lomas N.B., Suite 106	VE Ste =	202				2050		Location				An	alysis		
Obul bomas N.E., Suite 106 City State	Zip Code	400	Site Contact	7-8440 / (5	05) 237-1	3636	15	IL Denver	М	MI	П	П	П	П	T
lbuquerque NM Project Number/Name	-87112 8	7110	Kelly He			<u> </u>			S	SC					
ederal Com #15 Tetra Tech			Camenvayour	vamser					8 2	8 C					
Contract/Purchase Order/Quote Number									7	6					
ONTRACT / PURCHASE ORDER # : PO#				Co	ntainers	i		QUOTE: 72923	- 0	OI					
Sample I.D. Number and Description	Date	Time	Sample Type	Volume	Type	No.	Preservative	Condition on Receipt/Comments	L	ī					
TRIP BLANK	11/100/15/0	THE ILOO	WATER	40mL	VIAL	3	1:1 HCL			X	H	-		H	1
MW-3 MW-3	11 14 06								+		\vdash			H	\vdash
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Special Instructions QUOTE 7292:	3 8260/BTEX,	8270/1	PAH, chlorid	le 300.0	20# 45066	03277	REQ# 00001	0109543-00001 Line item							
Possible Hazard Identification				Sample Disp	oosal	11			(A fee	may b	e asse	ssed if sa	amples	are
Non-Hazard	in Irritant	Poison B		n Return				Archive For Months					n 3 month		
Turn Around Time Required			QC Level		Project	Spècific	Requirements (\$	Specify)							
Normal Rush Otl	her		Date	7	1. Rece	ived By	7	2 11/1			Date	1. 1	1	Time	1
Channel R. Solik			1115/06	Time	>		Man	m (Dinkl !!)			1//	16/0	1/2 1	094	5
2. Relinguished By			Date	Time		eived By	- Jy it is	1 Survey			Date	4/-		Time	
2. All days of by														and the same	
3. Relinquished By			Date	Time	3. Rece	eived By					Date			Time	