



STL

STL Denver
4955 Yarrow Street
Arvada, CO 80002

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

ANALYTICAL REPORT

**Raton Basin Baseline STD, CO
73407**

Lot #: D7A250184

Tom Melland

**Petroglyph
124 N Main
PO Box 979
La Veta, CO**

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "Donna Rydberg".

**Donna Rydberg
Project Manager**

February 8, 2007

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

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
- Lot Sample Summary
- Analytical Results
- QC Data Association Summary
- Chain-of-Custody

CASE NARRATIVE D7A250184

The following report contains the analytical results for two water samples submitted to STL Denver by Norwest Corporation for the Raton Basin Baseline site. The samples were received January 25, 2007 according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided on each data sheet to assist in the interpretation of the results. In some cases, due to interference or analytes present above the linear calibration curve, samples must be analyzed at a dilution. For samples analyzed at a dilution, the reporting limits are adjusted relative to the dilution required. Dilutions made for reasons other than the presence of target compound(s) are addressed in the Supplemental Information Section.

STL Denver utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameters listed on the methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included near the end of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted below.

Supplemental QC Information

Sample Arrival and Receipt

The samples presented in this report were received at the laboratory in good condition and at a temperature of 4.6°C. There were no custody seals on the coolers.

Method RSK SOP-175 – GC Volatiles

Matrix Spike samples were not requested and they could not be performed due to insufficient sample volume. The associated LCS and LCSD were in control and demonstrate that operating procedures were in control. Method precision and accuracy were demonstrated.

No other anomalies were observed.

Method 8015B/DRO

No anomalies were observed.

Method 200.8/200.7 – Dissolved Metals

Several spike recoveries were outside control limits in the MS/MSD samples associated with prep batch 7026327 and 7026339. The associated LCS and Method Blank were in control and demonstrate that operating procedures were in control. No further action was required.

The percent recoveries for Barium were not calculated in the MS/MSD due to concentrations in the parent sample at levels greater than four times the spiked amount.

No other anomalies were observed.

General Chemistry – Various

Low levels of total alkalinity were detected in the Method Blank associated with prep batch 7025396. No corrective action is required for any compounds detected below reporting limits. The associated data are flagged. Data was not compromised.

The percent recovery for TDS in the LCSD exceeded upper control limits in prep batch 7026307. The LCS recovery is in control. The samples were reanalyzed outside holding times and sample results were confirmed. Only the first set of data was reported as the second set was outside holding times.

No other anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D7A250184

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WHITE 1 WW 01/24/07 13:50 001				
Boron - DISSOLVED	0.012 B	0.10	mg/L	MCAWW 200.7
Calcium - DISSOLVED	42	0.20	mg/L	MCAWW 200.7
Magnesium - DISSOLVED	7.2	0.20	mg/L	MCAWW 200.7
Potassium - DISSOLVED	4.9	3.0	mg/L	MCAWW 200.7
Sodium - DISSOLVED	6.7	5.0	mg/L	MCAWW 200.7
Zinc - DISSOLVED	0.099	0.020	mg/L	MCAWW 200.7
Barium - DISSOLVED	0.076	0.0010	mg/L	MCAWW 200.8
Copper - DISSOLVED	0.016	0.0020	mg/L	MCAWW 200.8
Lead - DISSOLVED	0.00066 B	0.0010	mg/L	MCAWW 200.8
Manganese - DISSOLVED	0.0023	0.0010	mg/L	MCAWW 200.8
pH	7.6	0.10	No Units	MCAWW 150.1
Total Dissolved	230	10	mg/L	MCAWW 160.1
Solids				
Chloride	6.8	3.0	mg/L	MCAWW 300.0A
Sulfate	14	5.0	mg/L	MCAWW 300.0A
Fluoride	0.66	0.50	mg/L	MCAWW 300.0A
Nitrate	0.27 B	0.50	mg/L	MCAWW 300.0A
Bicarbonate, as CaCO3	130	5.0	mg/L	MCAWW 310.1
Total Alkalinity	130 J	5.0	mg/L	MCAWW 310.1
SNOW 1 WW 01/24/07 15:15 002				
Diesel Range Organics	0.062 J	0.25	mg/L	SW846 8015B
Methane	230	5.0	ug/L	RSK SOP-175
Boron - DISSOLVED	0.034 B	0.10	mg/L	MCAWW 200.7
Calcium - DISSOLVED	10	0.20	mg/L	MCAWW 200.7
Magnesium - DISSOLVED	3.7	0.20	mg/L	MCAWW 200.7
Potassium - DISSOLVED	2.7 B	3.0	mg/L	MCAWW 200.7
Sodium - DISSOLVED	260	5.0	mg/L	MCAWW 200.7
Zinc - DISSOLVED	0.024	0.020	mg/L	MCAWW 200.7
Arsenic - DISSOLVED	0.0012 B	0.0050	mg/L	MCAWW 200.8
Barium - DISSOLVED	0.53	0.0010	mg/L	MCAWW 200.8
Copper - DISSOLVED	0.12	0.0020	mg/L	MCAWW 200.8
Lead - DISSOLVED	0.00060 B	0.0010	mg/L	MCAWW 200.8
Manganese - DISSOLVED	0.00022 B	0.0010	mg/L	MCAWW 200.8
Selenium - DISSOLVED	0.0017 B	0.0050	mg/L	MCAWW 200.8
pH	8.2	0.10	No Units	MCAWW 150.1
Total Dissolved	720	10	mg/L	MCAWW 160.1
Solids				
Chloride	67 Q	6.0	mg/L	MCAWW 300.0A
Sulfate	6.9	5.0	mg/L	MCAWW 300.0A
Fluoride	1.6	0.50	mg/L	MCAWW 300.0A
Nitrate	0.16 B	0.50	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D7A250184

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
SNOW 1 WW 01/24/07 15:15 002				
Bromide	0.11 B	0.20	mg/L	MCAWW 300.0A
Bicarbonate, as CaCO ₃	600	5.0	mg/L	MCAWW 310.1
Total Alkalinity	600 J	5.0	mg/L	MCAWW 310.1

METHODS SUMMARY

D7A250184

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH (Electrometric)	MCAWW 150.1	MCAWW 150.1
Alkalinity	MCAWW 310.1	MCAWW 310.1
Bicarbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Bromide	MCAWW 300.0A	MCAWW 300.0A
Carbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Chloride	MCAWW 300.0A	MCAWW 300.0A
Dissolved Gases in Water	RSK SOP-175	RSK RSKSOP-175
Dissolved ICP Metals	MCAWW 200.7	MCAWW 200.7
Extractable Petroleum Hydrocarbons	SW846 8015B	SW846 3510
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Hydroxide Alkalinity	MCAWW 310.1	MCAWW 310.1
ICP-Mass Spectrometry ICP-Mass Spectrometry	MCAWW 200.8	MCAWW 200.8
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Non-Filterable Residue (TSS)	MCAWW 160.2	MCAWW 160.2
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Sulfide (Colorimetric,MB)	MCAWW 376.2	MCAWW 376.2

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- RSK Sample Prep and Calculations for Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibration Technique, RSKSOP-175, REV. 0, 8/11/94, USEPA Research Lab
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D7A250184

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 150.1	Christopher Grisdale	009582
MCAWW 160.1	Kevin Bloom	006134
MCAWW 160.2	Kevin Bloom	006134
MCAWW 200.7	Lynn-Anne Trudell	6645
MCAWW 200.8	Thomas Lill	6929
MCAWW 300.0A	Ewa Kudla	001167
MCAWW 310.1	Bilikisu Davies-Moir	021821
MCAWW 376.2	Kim Bertha	007985
RSK SOP-175	Patrick Quirk	006795
SW846 8015B	Heather Dybas	038161

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

RSK Sample Prep and Calculations for Dissolved Gas Analysis
in Water Samples Using a GC Headspace Equilibration
Technique, RSKSOP-175, REV. 0, 8/11/94, USEPA Research Lab

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D7A250184

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JNDDM	001	WHITE 1 WW	01/24/07	13:50
JNDDP	002	SNOW 1 WW	01/24/07	15:15

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.

Applied Hydrology Associates Inc

Client Sample ID: WHITE 1 WW

GC Volatiles

Lot-Sample #....: D7A250184-001 Work Order #....: JNDDM1AR Matrix.....: WATER
Date Sampled....: 01/24/07 13:50 Date Received...: 01/25/07
Prep Date.....: 01/30/07 Analysis Date...: 01/30/07
Prep Batch #....: 7031461 Analysis Time...: 12:37
Dilution Factor: 1
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Ethane	ND	5.0	ug/L	0.24
Ethene	ND	5.0	ug/L	0.40
Methane	ND	5.0	ug/L	0.22

Applied Hydrology Associates Inc

Client Sample ID: SNOW 1 WW

GC Volatiles

Lot-Sample #....: D7A250184-002 Work Order #....: JNDDP1A4 Matrix.....: WATER
Date Sampled....: 01/24/07 15:15 Date Received...: 01/25/07
Prep Date.....: 01/30/07 Analysis Date...: 01/30/07
Prep Batch #....: 7031461 Analysis Time...: 12:42
Dilution Factor: 1
Method.....: RSK SOP-175

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Ethane	ND	5.0	ug/L	0.24
Ethene	ND	5.0	ug/L	0.40
Methane	230	5.0	ug/L	0.22

Applied Hydrology Associates Inc

Client Sample ID: WHITE 1 WW

GC Semivolatiles

Lot-Sample #....: D7A250184-001 Work Order #....: JNDDM1AT Matrix.....: WATER
Date Sampled....: 01/24/07 13:50 Date Received...: 01/25/07
Prep Date.....: 01/26/07 Analysis Date...: 01/29/07
Prep Batch #....: 7026171 Analysis Time...: 21:28
Dilution Factor: 1
Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Diesel Range Organics	ND	0.25	mg/L	0.032

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	113	(48 - 117)

Applied Hydrology Associates Inc

Client Sample ID: SNOW 1 WW

GC Semivolatiles

Lot-Sample #...: D7A250184-002 Work Order #...: JNDDP1A5 Matrix.....: WATER
Date Sampled...: 01/24/07 15:15 Date Received...: 01/25/07
Prep Date.....: 01/26/07 Analysis Date...: 01/29/07
Prep Batch #...: 7026171 Analysis Time...: 21:55
Dilution Factor: 1
Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Diesel Range Organics	0.062 J	0.25	mg/L	0.032

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	108	(48 - 117)

NOTE (S) :

J Estimated result. Result is less than RL.

Applied Hydrology Associates Inc

Client Sample ID: WHITE 1 WW

DISSOLVED Metals

Lot-Sample #...: D7A250184-001

Matrix.....: WATER

Date Sampled...: 01/24/07 13:50 Date Received...: 01/25/07

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7026327						
Arsenic	ND	0.0050	mg/L	MCAWW 200.8	01/29/07	JNDDM1A6
		Dilution Factor: 1		Analysis Time...: 17:54	MDL.....: 0.00050	
Barium	0.076	0.0010	mg/L	MCAWW 200.8	01/29/07	JNDDM1A7
		Dilution Factor: 1		Analysis Time...: 17:54	MDL.....: 0.00012	
Copper	0.016	0.0020	mg/L	MCAWW 200.8	01/29/07	JNDDM1A8
		Dilution Factor: 1		Analysis Time...: 17:54	MDL.....: 0.00020	
Lead	0.00066 B	0.0010	mg/L	MCAWW 200.8	01/29/07	JNDDM1A9
		Dilution Factor: 1		Analysis Time...: 17:54	MDL.....: 0.00010	
Manganese	0.0023	0.0010	mg/L	MCAWW 200.8	01/29/07	JNDDM1CA
		Dilution Factor: 1		Analysis Time...: 17:54	MDL.....: 0.00012	
Selenium	ND	0.0050	mg/L	MCAWW 200.8	01/29/07	JNDDM1CC
		Dilution Factor: 1		Analysis Time...: 17:54	MDL.....: 0.0010	
Prep Batch #...: 7026339						
Boron	0.012 B	0.10	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDM1AU
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.0059	
Cadmium	ND	0.0050	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDM1AV
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.00045	
Calcium	42	0.20	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDM1AW
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.034	
Chromium	ND	0.010	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDM1AX
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.0026	
Iron	ND	0.10	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDM1A0
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.022	
Magnesium	7.2	0.20	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDM1A1
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.043	
Potassium	4.9	3.0	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDM1A2
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.24	

(Continued on next page)

Applied Hydrology Associates Inc

Client Sample ID: WHITE 1 WW

DISSOLVED Metals

Lot-Sample #....: D7A250184-001

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Silver	ND	0.010	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDM1A3
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.0028	
Sodium	6.7	5.0	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDM1A4
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.092	
Zinc	0.099	0.020	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDM1A5
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.0045	

NOTE(S) :

B Estimated result. Result is less than RL.

Applied Hydrology Associates Inc

Client Sample ID: SNOW 1 WW

DISSOLVED Metals

Lot-Sample #...: D7A250184-002

Matrix.....: WATER

Date Sampled...: 01/24/07 15:15 Date Received...: 01/25/07

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 7026327						
Arsenic	0.0012 B	0.0050	mg/L	MCAWW 200.8	01/29/07	JNDDP1AH
		Dilution Factor: 1		Analysis Time...: 17:58	MDL.....: 0.00050	
Barium	0.53	0.0010	mg/L	MCAWW 200.8	01/29/07	JNDDP1AJ
		Dilution Factor: 1		Analysis Time...: 17:58	MDL.....: 0.00012	
Copper	0.12	0.0020	mg/L	MCAWW 200.8	01/29/07	JNDDP1AK
		Dilution Factor: 1		Analysis Time...: 17:58	MDL.....: 0.00020	
Lead	0.00060 B	0.0010	mg/L	MCAWW 200.8	01/29/07	JNDDP1AL
		Dilution Factor: 1		Analysis Time...: 17:58	MDL.....: 0.00010	
Manganese	0.00022 B	0.0010	mg/L	MCAWW 200.8	01/29/07	JNDDP1CA
		Dilution Factor: 1		Analysis Time...: 17:58	MDL.....: 0.00012	
Selenium	0.0017 B	0.0050	mg/L	MCAWW 200.8	01/29/07	JNDDP1CC
		Dilution Factor: 1		Analysis Time...: 17:58	MDL.....: 0.0010	
Prep Batch #...: 7026339						
Boron	0.034 B	0.10	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDP1A6
		Dilution Factor: 1		Analysis Time...: 14:34	MDL.....: 0.0059	
Cadmium	ND	0.0050	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDP1A7
		Dilution Factor: 1		Analysis Time...: 14:34	MDL.....: 0.00045	
Calcium	10	0.20	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDP1A8
		Dilution Factor: 1		Analysis Time...: 14:34	MDL.....: 0.034	
Chromium	ND	0.010	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDP1A9
		Dilution Factor: 1		Analysis Time...: 14:34	MDL.....: 0.0026	
Iron	ND	0.10	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDP1AA
		Dilution Factor: 1		Analysis Time...: 14:34	MDL.....: 0.022	
Magnesium	3.7	0.20	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDP1AC
		Dilution Factor: 1		Analysis Time...: 14:34	MDL.....: 0.043	
Potassium	2.7 B	3.0	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDP1AD
		Dilution Factor: 1		Analysis Time...: 14:34	MDL.....: 0.24	

(Continued on next page)

Applied Hydrology Associates Inc

Client Sample ID: SNOW 1 WW

DISSOLVED Metals

Lot-Sample #...: D7A250184-002

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Silver	ND	0.010	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDP1AE
		Dilution Factor: 1		Analysis Time...: 14:34	MDL.....: 0.0028	
Sodium	260	5.0	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDP1AF
		Dilution Factor: 1		Analysis Time...: 14:34	MDL.....: 0.092	
Zinc	0.024	0.020	mg/L	MCAWW 200.7	01/26-01/29/07	JNDDP1AG
		Dilution Factor: 1		Analysis Time...: 14:34	MDL.....: 0.0045	

NOTE(S) :

B Estimated result. Result is less than RL.

Applied Hydrology Associates Inc

Client Sample ID: WHITE 1 WW

General Chemistry

Lot-Sample #....: D7A250184-001

Work Order #....: JNDDM

Matrix.....: WATER

Date Sampled....: 01/24/07 13:50

Date Received...: 01/25/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.6	0.10	No Units	MCAWW 150.1	01/25/07	7025409
		Dilution Factor: 1		Analysis Time...: 09:06	MDL.....:	
Bicarbonate, as CaCO ₃	130	5.0	mg/L	MCAWW 310.1	01/25/07	7025400
		Dilution Factor: 1		Analysis Time...: 15:00	MDL.....: 1.1	
Bromide	ND	0.20	mg/L	MCAWW 300.0A	01/25/07	7026125
		Dilution Factor: 1		Analysis Time...: 13:19	MDL.....: 0.11	
Carbonate, as CaCO ₃	ND	5.0	mg/L	MCAWW 310.1	01/25/07	7025403
		Dilution Factor: 1		Analysis Time...: 15:00	MDL.....: 1.1	
Chloride	6.8	3.0	mg/L	MCAWW 300.0A	01/25/07	7026126
		Dilution Factor: 1		Analysis Time...: 13:19	MDL.....: 0.25	
Fluoride	0.66	0.50	mg/L	MCAWW 300.0A	01/25/07	7026127
		Dilution Factor: 1		Analysis Time...: 13:19	MDL.....: 0.060	
Hydroxide, as CaCO ₃	ND	5.0	mg/L	MCAWW 310.1	01/25/07	7026108
		Dilution Factor: 1		Analysis Time...: 15:00	MDL.....: 1.1	
Nitrate	0.27 B	0.50	mg/L	MCAWW 300.0A	01/25/07	7026122
		Dilution Factor: 1		Analysis Time...: 13:19	MDL.....: 0.042	
Nitrite	ND	0.50	mg/L	MCAWW 300.0A	01/25/07	7026123
		Dilution Factor: 1		Analysis Time...: 13:19	MDL.....: 0.049	
Sulfate	14	5.0	mg/L	MCAWW 300.0A	01/25/07	7026124
		Dilution Factor: 1		Analysis Time...: 13:19	MDL.....: 0.23	
Total Alkalinity	130 J	5.0	mg/L	MCAWW 310.1	01/25/07	7025396
		Dilution Factor: 1		Analysis Time...: 15:00	MDL.....: 1.1	
Total Dissolved Solids	230	10	mg/L	MCAWW 160.1	01/26/07	7026307
		Dilution Factor: 1		Analysis Time...: 12:00	MDL.....: 4.7	
Total Sulfide	ND	0.050	mg/L	MCAWW 376.2	01/25/07	7025492
		Dilution Factor: 1		Analysis Time...: 12:00	MDL.....: 0.0071	

(Continued on next page)

Applied Hydrology Associates Inc

Client Sample ID: WHITE 1 WW

General Chemistry

Lot-Sample #....: D7A250184-001

Work Order #....: JNDDM

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/29/07	7029428
		Dilution Factor: 1		Analysis Time...: 10:00	MDL.....: 1.1	

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Applied Hydrology Associates Inc

Client Sample ID: SNOW 1 WW

General Chemistry

Lot-Sample #...: D7A250184-002

Work Order #...: JNDDP

Matrix.....: WATER

Date Sampled...: 01/24/07 15:15

Date Received...: 01/25/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.2	0.10	No Units	MCAWW 150.1	01/25/07	7025409
		Dilution Factor: 1		Analysis Time...: 09:06	MDL.....:	
Bicarbonate, as CaCO ₃	600	5.0	mg/L	MCAWW 310.1	01/25/07	7025400
		Dilution Factor: 1		Analysis Time...: 15:00	MDL.....: 1.1	
Bromide	0.11 B	0.20	mg/L	MCAWW 300.0A	01/25/07	7026125
		Dilution Factor: 1		Analysis Time...: 14:38	MDL.....: 0.11	
Carbonate, as CaCO ₃	ND	5.0	mg/L	MCAWW 310.1	01/25/07	7025403
		Dilution Factor: 1		Analysis Time...: 15:00	MDL.....: 1.1	
Chloride	67 Q	6.0	mg/L	MCAWW 300.0A	01/25/07	7026126
		Dilution Factor: 2		Analysis Time...: 15:41	MDL.....: 0.51	
Fluoride	1.6	0.50	mg/L	MCAWW 300.0A	01/25/07	7026127
		Dilution Factor: 1		Analysis Time...: 14:38	MDL.....: 0.060	
Hydroxide, as CaCO ₃	ND	5.0	mg/L	MCAWW 310.1	01/25/07	7026108
		Dilution Factor: 1		Analysis Time...: 15:00	MDL.....: 1.1	
Nitrate	0.16 B	0.50	mg/L	MCAWW 300.0A	01/25/07	7026122
		Dilution Factor: 1		Analysis Time...: 14:38	MDL.....: 0.042	
Nitrite	ND	0.50	mg/L	MCAWW 300.0A	01/25/07	7026123
		Dilution Factor: 1		Analysis Time...: 14:38	MDL.....: 0.049	
Sulfate	6.9	5.0	mg/L	MCAWW 300.0A	01/25/07	7026124
		Dilution Factor: 1		Analysis Time...: 14:38	MDL.....: 0.23	
Total Alkalinity	600 J	5.0	mg/L	MCAWW 310.1	01/25/07	7025396
		Dilution Factor: 1		Analysis Time...: 15:00	MDL.....: 1.1	
Total Dissolved Solids	720	10	mg/L	MCAWW 160.1	01/26/07	7026307
		Dilution Factor: 1		Analysis Time...: 12:00	MDL.....: 4.7	
Total Sulfide	ND	0.050	mg/L	MCAWW 376.2	01/25/07	7025492
		Dilution Factor: 1		Analysis Time...: 12:00	MDL.....: 0.0071	

(Continued on next page)

Applied Hydrology Associates Inc

Client Sample ID: SNOW 1 WW

General Chemistry

Lot-Sample #...: D7A250184-002

Work Order #...: JNDDP

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/29/07	7029428

Dilution Factor: 1

Analysis Time...: 10:00

MDL.....: 1.1

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

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

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QC DATA ASSOCIATION SUMMARY

D7A250184

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 150.1		7025409	7025272
	WATER	MCAWW 160.1		7026307	7030108
	WATER	MCAWW 160.2		7029428	7030116
	WATER	MCAWW 200.7		7026339	7026206
	WATER	MCAWW 310.1		7025403	
	WATER	MCAWW 300.0A		7026126	7026086
	WATER	MCAWW 300.0A		7026124	7026096
	WATER	MCAWW 300.0A		7026127	7026084
	WATER	MCAWW 300.0A		7026122	7026094
	WATER	MCAWW 300.0A		7026125	7026092
	WATER	MCAWW 300.0A		7026123	7026090
	WATER	SW846 8015B		7026171	7030082
	WATER	RSK SOP-175		7031461	
	WATER	MCAWW 310.1		7026108	
	WATER	MCAWW 200.8		7026327	7026197
	WATER	MCAWW 376.2		7025492	7026108
	WATER	MCAWW 310.1		7025400	
	WATER	MCAWW 310.1		7025396	7026100
002	WATER	MCAWW 150.1		7025409	7025272
	WATER	MCAWW 160.1		7026307	7030108
	WATER	MCAWW 160.2		7029428	7030116
	WATER	MCAWW 200.7		7026339	7026206
	WATER	MCAWW 310.1		7025403	
	WATER	MCAWW 300.0A		7026126	7026086
	WATER	MCAWW 300.0A		7026124	7026096
	WATER	MCAWW 300.0A		7026127	7026084
	WATER	MCAWW 300.0A		7026122	7026094
	WATER	MCAWW 300.0A		7026125	7026092
	WATER	MCAWW 300.0A		7026123	7026090
	WATER	SW846 8015B		7026171	7030082
	WATER	RSK SOP-175		7031461	
	WATER	MCAWW 310.1		7026108	
	WATER	MCAWW 200.8		7026327	7026197
	WATER	MCAWW 376.2		7025492	7026108
	WATER	MCAWW 310.1		7025400	
	WATER	MCAWW 310.1		7025396	7026100

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: D7A250184 Work Order #....: JNNP91AA Matrix.....: WATER
MB Lot-Sample #: D7A310000-461 Prep Date.....: 01/30/07 Analysis Time...: 10:17
Analysis Date...: 01/30/07 Prep Batch #....: 7031461
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methane	ND	5.0	ug/L	RSK SOP-175
Ethane	ND	5.0	ug/L	RSK SOP-175
Ethene	ND	5.0	ug/L	RSK SOP-175

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: D7A250184 Work Order #....: JNNP91AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: D7A310000-461 JNNP91AD-LCSD
 Prep Date.....: 01/30/07 Analysis Date...: 01/30/07
 Prep Batch #....: 7031461 Analysis Time...: 10:07
 Dilution Factor: 1

PARAMETER	PERCENT	RECOVERY	RPD	RPD	METHOD
	RECOVERY	LIMITS		LIMITS	
Acetylene	109	(75 - 125)			RSK SOP-175
	118	(75 - 125)	8.4	(0-20)	RSK SOP-175
Ethane	108	(75 - 125)			RSK SOP-175
	114	(75 - 125)	6.0	(0-20)	RSK SOP-175
Ethene	110	(75 - 125)			RSK SOP-175
	118	(75 - 125)	7.3	(0-20)	RSK SOP-175
Methane	107	(75 - 125)			RSK SOP-175
	113	(75 - 125)	5.9	(0-20)	RSK SOP-175

NOTE(S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: D7A250184 Work Order #....: JNNP91AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: D7A310000-461 JNNP91AD-LCSD
 Prep Date.....: 01/30/07 Analysis Date...: 01/30/07
 Prep Batch #....: 7031461 Analysis Time...: 10:07
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetylene	118	128	ug/L	109		RSK SOP-175
	118	140	ug/L	118	8.4	RSK SOP-175
Ethane	137	147	ug/L	108		RSK SOP-175
	137	156	ug/L	114	6.0	RSK SOP-175
Ethene	127	139	ug/L	110		RSK SOP-175
	127	150	ug/L	118	7.3	RSK SOP-175
Methane	73.0	77.8	ug/L	107		RSK SOP-175
	73.0	82.6	ug/L	113	5.9	RSK SOP-175

NOTE (S) :

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #....: D7A250184
MB Lot-Sample #: D7A260000-171

Work Order #....: JNFHN1AA

Matrix.....: WATER

Analysis Date...: 01/29/07
Dilution Factor: 1

Prep Date.....: 01/26/07
Prep Batch #....: 7026171

Analysis Time...: 18:20

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	ND	0.25	mg/L	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	111	(48 - 117)

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: D7A250184 Work Order #....: JNFHN1AC Matrix.....: WATER
LCS Lot-Sample#: D7A260000-171
Prep Date.....: 01/26/07 Analysis Date...: 01/29/07
Prep Batch #....: 7026171 Analysis Time...: 18:47
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Diesel Range Organics	90	(54 - 115)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	90	(50 - 115)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: D7A250184 Work Order #....: JNFHN1AC Matrix.....: WATER
 LCS Lot-Sample#: D7A260000-171
 Prep Date.....: 01/26/07 Analysis Date...: 01/29/07
 Prep Batch #....: 7026171 Analysis Time...: 18:47
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Diesel Range Organics	2.00	1.80	mg/L	90	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	90	(50 - 115)

NOTE(S) :

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: D7A250184 Work Order #....: JNC861AW-MS Matrix.....: WATER
 MS Lot-Sample #: D7A250167-002 JNC861AX-MSD
 Date Sampled....: 01/24/07 11:35 Date Received...: 01/25/07
 Prep Date.....: 01/26/07 Analysis Date...: 01/29/07
 Prep Batch #....: 7026171 Analysis Time...: 20:35
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Diesel Range Organics	86	(50 - 115)			SW846 8015B
	86	(50 - 115)	1.4	(0-31)	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	93	(48 - 117)
	89	(48 - 117)

NOTE(S) :

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: D7A250184 Work Order #....: JNC861AW-MS Matrix.....: WATER
 MS Lot-Sample #: D7A250167-002 JNC861AX-MSD
 Date Sampled....: 01/24/07 11:35 Date Received...: 01/25/07
 Prep Date.....: 01/26/07 Analysis Date...: 01/29/07
 Prep Batch #....: 7026171 Analysis Time...: 20:35
 Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Diesel Range Organics	ND	2.00	1.73	mg/L	86		SW846 8015B
	ND	1.98	1.71	mg/L	86	1.4	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	93	(48 - 117)
	89	(48 - 117)

NOTE(S) :

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

Bold print denotes control parameters

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: D7A250184

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D7A260000-327 Prep Batch #....: 7026327						
Arsenic	ND	0.0050	mg/L	MCAWW 200.8	01/29/07	JNGDT1AA
		Dilution Factor: 1				
		Analysis Time...: 17:47				
Barium	ND	0.0010	mg/L	MCAWW 200.8	01/29/07	JNGDT1AC
		Dilution Factor: 1				
		Analysis Time...: 17:47				
Copper	ND	0.0020	mg/L	MCAWW 200.8	01/29/07	JNGDT1AD
		Dilution Factor: 1				
		Analysis Time...: 17:47				
Lead	ND	0.0010	mg/L	MCAWW 200.8	01/29/07	JNGDT1AE
		Dilution Factor: 1				
		Analysis Time...: 17:47				
Manganese	ND	0.0010	mg/L	MCAWW 200.8	01/29/07	JNGDT1AF
		Dilution Factor: 1				
		Analysis Time...: 17:47				
Selenium	ND	0.0050	mg/L	MCAWW 200.8	01/29/07	JNGDT1AG
		Dilution Factor: 1				
		Analysis Time...: 17:47				
MB Lot-Sample #: D7A260000-339 Prep Batch #....: 7026339						
Boron	ND	0.10	mg/L	MCAWW 200.7	01/26-01/29/07	JNGF71AA
		Dilution Factor: 1				
		Analysis Time...: 14:02				
Cadmium	ND	0.0050	mg/L	MCAWW 200.7	01/26-01/29/07	JNGF71AC
		Dilution Factor: 1				
		Analysis Time...: 14:02				
Calcium	ND	0.20	mg/L	MCAWW 200.7	01/26-01/29/07	JNGF71AD
		Dilution Factor: 1				
		Analysis Time...: 14:02				
Chromium	ND	0.010	mg/L	MCAWW 200.7	01/26-01/29/07	JNGF71AE
		Dilution Factor: 1				
		Analysis Time...: 14:02				

(Continued on next page)

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #....: D7A250184

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Iron	ND	0.10	mg/L	MCAWW 200.7	01/26-01/29/07	JNGF71AF
		Dilution Factor: 1				
		Analysis Time...: 14:02				
Magnesium	ND	0.20	mg/L	MCAWW 200.7	01/26-01/29/07	JNGF71AG
		Dilution Factor: 1				
		Analysis Time...: 14:02				
Potassium	ND	3.0	mg/L	MCAWW 200.7	01/26-01/29/07	JNGF71AH
		Dilution Factor: 1				
		Analysis Time...: 14:02				
Silver	ND	0.010	mg/L	MCAWW 200.7	01/26-01/29/07	JNGF71AJ
		Dilution Factor: 1				
		Analysis Time...: 14:02				
Sodium	ND	5.0	mg/L	MCAWW 200.7	01/26-01/29/07	JNGF71AK
		Dilution Factor: 1				
		Analysis Time...: 14:02				
Zinc	ND	0.020	mg/L	MCAWW 200.7	01/26-01/29/07	JNGF71AL
		Dilution Factor: 1				
		Analysis Time...: 14:02				

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D7A250184

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: D7A260000-327 Prep Batch #... : 7026327					
Arsenic	100	(89 - 111)	MCAWW 200.8	01/29/07	JNGDT1AH
		Dilution Factor: 1	Analysis Time...: 17:50		
Barium	102	(89 - 117)	MCAWW 200.8	01/29/07	JNGDT1AJ
		Dilution Factor: 1	Analysis Time...: 17:50		
Copper	103	(90 - 117)	MCAWW 200.8	01/29/07	JNGDT1AK
		Dilution Factor: 1	Analysis Time...: 17:50		
Lead	96	(88 - 119)	MCAWW 200.8	01/29/07	JNGDT1AL
		Dilution Factor: 1	Analysis Time...: 17:50		
Manganese	101	(87 - 124)	MCAWW 200.8	01/29/07	JNGDT1AM
		Dilution Factor: 1	Analysis Time...: 17:50		
Selenium	100	(82 - 114)	MCAWW 200.8	01/29/07	JNGDT1AN
		Dilution Factor: 1	Analysis Time...: 17:50		
LCS Lot-Sample#: D7A260000-339 Prep Batch #... : 7026339					
Boron	93	(86 - 110)	MCAWW 200.7	01/26-01/29/07	JNGF71AM
		Dilution Factor: 1	Analysis Time...: 14:08		
Cadmium	97	(88 - 111)	MCAWW 200.7	01/26-01/29/07	JNGF71AN
		Dilution Factor: 1	Analysis Time...: 14:08		
Calcium	95	(90 - 111)	MCAWW 200.7	01/26-01/29/07	JNGF71AP
		Dilution Factor: 1	Analysis Time...: 14:08		
Chromium	97	(90 - 113)	MCAWW 200.7	01/26-01/29/07	JNGF71AQ
		Dilution Factor: 1	Analysis Time...: 14:08		
Iron	98	(89 - 116)	MCAWW 200.7	01/26-01/29/07	JNGF71AR
		Dilution Factor: 1	Analysis Time...: 14:08		
Magnesium	95	(90 - 113)	MCAWW 200.7	01/26-01/29/07	JNGF71AT
		Dilution Factor: 1	Analysis Time...: 14:08		
Potassium	95	(89 - 114)	MCAWW 200.7	01/26-01/29/07	JNGF71AU
		Dilution Factor: 1	Analysis Time...: 14:08		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D7A250184

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Silver	114	(86 - 120)	MCAWW 200.7	01/26-01/29/07	JNGF71AV
		Dilution Factor: 1		Analysis Time...: 14:08	
Sodium	101	(90 - 117)	MCAWW 200.7	01/26-01/29/07	JNGF71AW
		Dilution Factor: 1		Analysis Time...: 14:08	
Zinc	94	(84 - 111)	MCAWW 200.7	01/26-01/29/07	JNGF71AX
		Dilution Factor: 1		Analysis Time...: 14:08	

NOTE (S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D7A250184

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVR	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D7A260000-327 Prep Batch #...: 7026327							
Arsenic	0.0400	0.0400	mg/L	100	MCAWW 200.8	01/29/07	JNGDT1AH
			Dilution Factor: 1		Analysis Time...: 17:50		
Barium	0.0400	0.0407	mg/L	102	MCAWW 200.8	01/29/07	JNGDT1AJ
			Dilution Factor: 1		Analysis Time...: 17:50		
Copper	0.0400	0.0413	mg/L	103	MCAWW 200.8	01/29/07	JNGDT1AK
			Dilution Factor: 1		Analysis Time...: 17:50		
Lead	0.0400	0.0383	mg/L	96	MCAWW 200.8	01/29/07	JNGDT1AL
			Dilution Factor: 1		Analysis Time...: 17:50		
Manganese	0.0400	0.0402	mg/L	101	MCAWW 200.8	01/29/07	JNGDT1AM
			Dilution Factor: 1		Analysis Time...: 17:50		
Selenium	0.0400	0.0399	mg/L	100	MCAWW 200.8	01/29/07	JNGDT1AN
			Dilution Factor: 1		Analysis Time...: 17:50		
LCS Lot-Sample#: D7A260000-339 Prep Batch #...: 7026339							
Boron	1.00	0.928	mg/L	93	MCAWW 200.7	01/26-01/29/07	JNGF71AM
			Dilution Factor: 1		Analysis Time...: 14:08		
Cadmium	0.0500	0.0483	mg/L	97	MCAWW 200.7	01/26-01/29/07	JNGF71AN
			Dilution Factor: 1		Analysis Time...: 14:08		
Calcium	50.0	47.6	mg/L	95	MCAWW 200.7	01/26-01/29/07	JNGF71AP
			Dilution Factor: 1		Analysis Time...: 14:08		
Chromium	0.200	0.194	mg/L	97	MCAWW 200.7	01/26-01/29/07	JNGF71AQ
			Dilution Factor: 1		Analysis Time...: 14:08		
Iron	1.00	0.979	mg/L	98	MCAWW 200.7	01/26-01/29/07	JNGF71AR
			Dilution Factor: 1		Analysis Time...: 14:08		
Magnesium	50.0	47.7	mg/L	95	MCAWW 200.7	01/26-01/29/07	JNGF71AT
			Dilution Factor: 1		Analysis Time...: 14:08		
Potassium	50.0	47.6	mg/L	95	MCAWW 200.7	01/26-01/29/07	JNGF71AU
			Dilution Factor: 1		Analysis Time...: 14:08		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #....: D7A250184

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	0.0500	0.0571	mg/L	114	MCAWW 200.7	01/26-01/29/07	JNGF71AV
				Dilution Factor: 1	Analysis Time...: 14:08		
Sodium	50.0	50.5	mg/L	101	MCAWW 200.7	01/26-01/29/07	JNGF71AW
				Dilution Factor: 1	Analysis Time...: 14:08		
Zinc	0.500	0.472	mg/L	94	MCAWW 200.7	01/26-01/29/07	JNGF71AX
				Dilution Factor: 1	Analysis Time...: 14:08		

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: D7A250184

Matrix.....: WATER

Date Sampled....: 01/24/07 15:15 Date Received...: 01/25/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D7A250184-002 Prep Batch #....: 7026327						
Arsenic	140 N	(79 - 120)		MCAWW 200.8	01/29/07	JNDDP1CD
	135 N	(79 - 120) 3.1	(0-30)	MCAWW 200.8	01/29/07	JNDDP1CE
		Dilution Factor: 1				
		Analysis Time...: 18:01				
Barium	NC,MSB	(83 - 118)		MCAWW 200.8	01/29/07	JNDDP1CF
	NC,MSB	(83 - 118)	(0-30)	MCAWW 200.8	01/29/07	JNDDP1CG
		Dilution Factor: 1				
		Analysis Time...: 18:01				
Copper	80 N	(82 - 114)		MCAWW 200.8	01/29/07	JNDDP1CH
	83	(82 - 114) 0.72	(0-30)	MCAWW 200.8	01/29/07	JNDDP1CJ
		Dilution Factor: 1				
		Analysis Time...: 18:01				
Lead	98	(79 - 119)		MCAWW 200.8	01/29/07	JNDDP1CK
	94	(79 - 119) 3.6	(0-30)	MCAWW 200.8	01/29/07	JNDDP1CL
		Dilution Factor: 1				
		Analysis Time...: 18:01				
Manganese	99	(57 - 149)		MCAWW 200.8	01/29/07	JNDDP1CM
	94	(57 - 149) 4.8	(0-35)	MCAWW 200.8	01/29/07	JNDDP1CN
		Dilution Factor: 1				
		Analysis Time...: 18:01				
Selenium	167 N	(64 - 134)		MCAWW 200.8	01/29/07	JNDDP1CP
	165 N	(64 - 134) 0.83	(0-35)	MCAWW 200.8	01/29/07	JNDDP1CQ
		Dilution Factor: 1				
		Analysis Time...: 18:01				

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #....: D7A250184

Matrix.....: WATER

Date Sampled....: 01/24/07 15:15 Date Received...: 01/25/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D7A250184-002 Prep Batch #....: 7026327									
Arsenic									
	0.0012	0.0400	0.0570	mg/L	140		MCAWW 200.8	01/29/07	JNDDP1CD
			Qualifiers: N						
	0.0012	0.0400	0.0552	mg/L	135	3.1	MCAWW 200.8	01/29/07	JNDDP1CE
			Qualifiers: N						
			Dilution Factor: 1						
			Analysis Time...: 18:01						
Barium									
	0.53	0.0400	0.565	mg/L			MCAWW 200.8	01/29/07	JNDDP1CF
			Qualifiers: NC,MSB						
	0.53	0.0400	0.523	mg/L			MCAWW 200.8	01/29/07	JNDDP1CG
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
			Analysis Time...: 18:01						
Copper									
	0.12	0.0400	0.149	N mg/L	80		MCAWW 200.8	01/29/07	JNDDP1CH
	0.12	0.0400	0.150	mg/L	83	0.72	MCAWW 200.8	01/29/07	JNDDP1CJ
			Dilution Factor: 1						
			Analysis Time...: 18:01						
Lead									
	0.00060	0.0400	0.0397	mg/L	98		MCAWW 200.8	01/29/07	JNDDP1CK
	0.00060	0.0400	0.0383	mg/L	94	3.6	MCAWW 200.8	01/29/07	JNDDP1CL
			Dilution Factor: 1						
			Analysis Time...: 18:01						
Manganese									
	0.00022	0.0400	0.0397	mg/L	99		MCAWW 200.8	01/29/07	JNDDP1CM
	0.00022	0.0400	0.0378	mg/L	94	4.8	MCAWW 200.8	01/29/07	JNDDP1CN
			Dilution Factor: 1						
			Analysis Time...: 18:01						
Selenium									
	0.0017	0.0400	0.0685	mg/L	167		MCAWW 200.8	01/29/07	JNDDP1CP
			Qualifiers: N						
	0.0017	0.0400	0.0679	mg/L	165	0.83	MCAWW 200.8	01/29/07	JNDDP1CQ
			Qualifiers: N						
			Dilution Factor: 1						
			Analysis Time...: 18:01						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D7A250184

Matrix.....: WATER

Date Sampled...: 01/24/07 15:15 **Date Received...:** 01/25/07

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: D7A250184

Matrix.....: WATER

Date Sampled....: 01/24/07 13:50 Date Received...: 01/25/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D7A250184-001 Prep Batch #....: 7026339						
Boron	94	(86 - 110)		MCAWW 200.7	01/26-01/29/07	JNDDM1CR
	94	(86 - 110)	0.21 (0-20)	MCAWW 200.7	01/26-01/29/07	JNDDM1CT
			Dilution Factor: 1			
			Analysis Time...: 14:24			
Cadmium	99	(88 - 111)		MCAWW 200.7	01/26-01/29/07	JNDDM1CU
	100	(88 - 111)	1.1 (0-20)	MCAWW 200.7	01/26-01/29/07	JNDDM1CV
			Dilution Factor: 1			
			Analysis Time...: 14:24			
Calcium	94	(90 - 111)		MCAWW 200.7	01/26-01/29/07	JNDDM1CW
	95	(90 - 111)	0.11 (0-20)	MCAWW 200.7	01/26-01/29/07	JNDDM1CX
			Dilution Factor: 1			
			Analysis Time...: 14:24			
Chromium	99	(90 - 113)		MCAWW 200.7	01/26-01/29/07	JNDDM1C0
	100	(90 - 113)	1.2 (0-20)	MCAWW 200.7	01/26-01/29/07	JNDDM1C1
			Dilution Factor: 1			
			Analysis Time...: 14:24			
Iron	101	(89 - 116)		MCAWW 200.7	01/26-01/29/07	JNDDM1C2
	101	(89 - 116)	0.63 (0-20)	MCAWW 200.7	01/26-01/29/07	JNDDM1C3
			Dilution Factor: 1			
			Analysis Time...: 14:24			
Magnesium	97	(90 - 113)		MCAWW 200.7	01/26-01/29/07	JNDDM1C4
	97	(90 - 113)	0.34 (0-20)	MCAWW 200.7	01/26-01/29/07	JNDDM1C5
			Dilution Factor: 1			
			Analysis Time...: 14:24			
Potassium	98	(89 - 114)		MCAWW 200.7	01/26-01/29/07	JNDDM1C6
	98	(89 - 114)	0.57 (0-20)	MCAWW 200.7	01/26-01/29/07	JNDDM1C7
			Dilution Factor: 1			
			Analysis Time...: 14:24			
Silver	129 N	(86 - 120)		MCAWW 200.7	01/26-01/29/07	JNDDM1C8
	129 N	(86 - 120)	0.29 (0-20)	MCAWW 200.7	01/26-01/29/07	JNDDM1C9
			Dilution Factor: 1			
			Analysis Time...: 14:24			

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D7A250184

Matrix.....: WATER

Date Sampled...: 01/24/07 13:50 Date Received...: 01/25/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Sodium	103	(90 - 117)		MCAWW 200.7	01/26-01/29/07	JNDDM1DA
	105	(90 - 117)	1.1 (0-20)	MCAWW 200.7	01/26-01/29/07	JNDDM1DC
Dilution Factor: 1						
Analysis Time...: 14:24						
Zinc	94	(84 - 111)		MCAWW 200.7	01/26-01/29/07	JNDDM1DD
	95	(84 - 111)	0.17 (0-20)	MCAWW 200.7	01/26-01/29/07	JNDDM1DE
Dilution Factor: 1						
Analysis Time...: 14:24						

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D7A250184

Matrix.....: WATER

Date Sampled...: 01/24/07 13:50 Date Received...: 01/25/07

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVR	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D7A250184-001 Prep Batch #...: 7026339									
Boron									
	0.012	1.00	0.952	mg/L	94		MCAWW 200.7	01/26-01/29/07	JNDDM1CR
	0.012	1.00	0.954	mg/L	94	0.21	MCAWW 200.7	01/26-01/29/07	JNDDM1CT
Dilution Factor: 1									
Analysis Time...: 14:24									
Cadmium									
ND	0.0500	0.0494	mg/L	99			MCAWW 200.7	01/26-01/29/07	JNDDM1CU
ND	0.0500	0.0500	mg/L	100	1.1		MCAWW 200.7	01/26-01/29/07	JNDDM1CV
Dilution Factor: 1									
Analysis Time...: 14:24									
Calcium									
42	50.0	89.6	mg/L	94			MCAWW 200.7	01/26-01/29/07	JNDDM1CW
42	50.0	89.7	mg/L	95	0.11		MCAWW 200.7	01/26-01/29/07	JNDDM1CX
Dilution Factor: 1									
Analysis Time...: 14:24									
Chromium									
ND	0.200	0.199	mg/L	99			MCAWW 200.7	01/26-01/29/07	JNDDM1C0
ND	0.200	0.201	mg/L	100	1.2		MCAWW 200.7	01/26-01/29/07	JNDDM1C1
Dilution Factor: 1									
Analysis Time...: 14:24									
Iron									
ND	1.00	1.01	mg/L	101			MCAWW 200.7	01/26-01/29/07	JNDDM1C2
ND	1.00	1.01	mg/L	101	0.63		MCAWW 200.7	01/26-01/29/07	JNDDM1C3
Dilution Factor: 1									
Analysis Time...: 14:24									
Magnesium									
7.2	50.0	55.5	mg/L	97			MCAWW 200.7	01/26-01/29/07	JNDDM1C4
7.2	50.0	55.7	mg/L	97	0.34		MCAWW 200.7	01/26-01/29/07	JNDDM1C5
Dilution Factor: 1									
Analysis Time...: 14:24									
Potassium									
4.9	50.0	53.7	mg/L	98			MCAWW 200.7	01/26-01/29/07	JNDDM1C6
4.9	50.0	54.0	mg/L	98	0.57		MCAWW 200.7	01/26-01/29/07	JNDDM1C7
Dilution Factor: 1									
Analysis Time...: 14:24									

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #....: D7A250184

Matrix.....: WATER

Date Sampled....: 01/24/07 13:50 Date Received...: 01/25/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND	0.0500	0.0645	mg/L	129		MCAWW 200.7	01/26-01/29/07	JNDDM1C8
			Qualifiers: N						
	ND	0.0500	0.0643	mg/L	129	0.29	MCAWW 200.7	01/26-01/29/07	JNDDM1C9
			Qualifiers: N						
			Dilution Factor: 1						
			Analysis Time...: 14:24						
Sodium	6.7	50.0	58.4	mg/L	103		MCAWW 200.7	01/26-01/29/07	JNDDM1DA
	6.7	50.0	59.1	mg/L	105	1.1	MCAWW 200.7	01/26-01/29/07	JNDDM1DC
			Dilution Factor: 1						
			Analysis Time...: 14:24						
Zinc	0.099	0.500	0.571	mg/L	94		MCAWW 200.7	01/26-01/29/07	JNDDM1DD
	0.099	0.500	0.572	mg/L	95	0.17	MCAWW 200.7	01/26-01/29/07	JNDDM1DE
			Dilution Factor: 1						
			Analysis Time...: 14:24						

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: D7A250184

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate, as CaCO ₃	ND	Work Order #: JNFTV1AA 5.0	mg/L	MB Lot-Sample #: D7A250000-400 MCAWW 310.1	01/25/07	7025400
		Dilution Factor: 1 Analysis Time...: 15:00				
Bromide	ND	Work Order #: JNFC01AA 0.20	mg/L	MB Lot-Sample #: D7A260000-125 MCAWW 300.0A	01/25/07	7026125
		Dilution Factor: 1 Analysis Time...: 10:46				
Carbonate, as CaCO ₃	ND	Work Order #: JNFT11AA 5.0	mg/L	MB Lot-Sample #: D7A250000-403 MCAWW 310.1	01/25/07	7025403
		Dilution Factor: 1 Analysis Time...: 15:00				
Chloride	ND	Work Order #: JNFCN1AA 3.0	mg/L	MB Lot-Sample #: D7A260000-126 MCAWW 300.0A	01/25/07	7026126
		Dilution Factor: 1 Analysis Time...: 10:46				
Fluoride	ND	Work Order #: JNFCK1AA 0.50	mg/L	MB Lot-Sample #: D7A260000-127 MCAWW 300.0A	01/25/07	7026127
		Dilution Factor: 1 Analysis Time...: 10:30				
Hydroxide, as CaCO ₃	ND	Work Order #: JNFVV1AA 5.0	mg/L	MB Lot-Sample #: D7A260000-108 MCAWW 310.1	01/25/07	7026108
		Dilution Factor: 1 Analysis Time...: 15:00				
Nitrate	ND	Work Order #: JNFC31AA 0.50	mg/L	MB Lot-Sample #: D7A260000-122 MCAWW 300.0A	01/25/07	7026122
		Dilution Factor: 1 Analysis Time...: 10:46				
Nitrite	ND	Work Order #: JNFCT1AA 0.50	mg/L	MB Lot-Sample #: D7A260000-123 MCAWW 300.0A	01/25/07	7026123
		Dilution Factor: 1 Analysis Time...: 10:46				
Sulfate	ND	Work Order #: JNFC51AA 5.0	mg/L	MB Lot-Sample #: D7A260000-124 MCAWW 300.0A	01/25/07	7026124
		Dilution Factor: 1 Analysis Time...: 10:46				

(Continued on next page)

METHOD BLANK REPORT

General Chemistry

Client Lot #....: D7A250184

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Alkalinity	1.4 B	Work Order #: JNFDJ1AA 5.0 Dilution Factor: 1 Analysis Time...: 15:00	mg/L	MB Lot-Sample #: D7A250000-396 MCAWW 310.1	01/25/07	7025396
Total Dissolved Solids	ND	Work Order #: JNKR31AA 10 Dilution Factor: 1 Analysis Time...: 12:00	mg/L	MB Lot-Sample #: D7A260000-307 MCAWW 160.1	01/26/07	7026307
Total Sulfide	ND	Work Order #: JNFEP1AA 0.050 Dilution Factor: 1 Analysis Time...: 12:00	mg/L	MB Lot-Sample #: D7A250000-492 MCAWW 376.2	01/25/07	7025492
Total Suspended Solids	ND	Work Order #: JNKV21AA 4.0 Dilution Factor: 1 Analysis Time...: 10:00	mg/L	MB Lot-Sample #: D7A290000-428 MCAWW 160.2	01/29/07	7029428

NOTE(S) :

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #....: D7A250184

Matrix.....: WATER

	PERCENT	RECOVERY	RPD	LIMITS	METHOD	PREPARATION-	PREP
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHOD	ANALYSIS DATE	BATCH #
pH		WO#:JNEMJ1AA-LCS/JNEMJ1AC-LCSD LCS Lot-Sample#: D7A250000-409					
	100	(97 - 102)			MCAWW 150.1	01/25/07	7025409
	100	(97 - 102)	0.14	(0-5.0)	MCAWW 150.1	01/25/07	7025409
		Dilution Factor: 1		Analysis Time...: 09:06			
Bromide		WO#:JNFC01AC-LCS/JNFC01AD-LCSD LCS Lot-Sample#: D7A260000-125					
	97	(90 - 110)			MCAWW 300.0A	01/25/07	7026125
	97	(90 - 110)	0.41	(0-10)	MCAWW 300.0A	01/25/07	7026125
		Dilution Factor: 1		Analysis Time...: 10:14			
Chloride		WO#:JNFCN1AC-LCS/JNFCN1AD-LCSD LCS Lot-Sample#: D7A260000-126					
	99	(90 - 110)			MCAWW 300.0A	01/25/07	7026126
	99	(90 - 110)	0.0	(0-10)	MCAWW 300.0A	01/25/07	7026126
		Dilution Factor: 1		Analysis Time...: 10:14			
Fluoride		WO#:JNFCK1AC-LCS/JNFCK1AD-LCSD LCS Lot-Sample#: D7A260000-127					
	100	(90 - 110)			MCAWW 300.0A	01/25/07	7026127
	101	(90 - 110)	0.19	(0-10)	MCAWW 300.0A	01/25/07	7026127
		Dilution Factor: 1		Analysis Time...: 10:14			
Nitrate		WO#:JNFC31AC-LCS/JNFC31AD-LCSD LCS Lot-Sample#: D7A260000-122					
	97	(90 - 110)			MCAWW 300.0A	01/25/07	7026122
	98	(90 - 110)	1.0	(0-10)	MCAWW 300.0A	01/25/07	7026122
		Dilution Factor: 1		Analysis Time...: 10:14			
Nitrite		WO#:JNFCT1AC-LCS/JNFCT1AD-LCSD LCS Lot-Sample#: D7A260000-123					
	102	(90 - 110)			MCAWW 300.0A	01/25/07	7026123
	101	(90 - 110)	1.2	(0-10)	MCAWW 300.0A	01/25/07	7026123
		Dilution Factor: 1		Analysis Time...: 10:14			
Sulfate		WO#:JNFC51AC-LCS/JNFC51AD-LCSD LCS Lot-Sample#: D7A260000-124					
	99	(90 - 110)			MCAWW 300.0A	01/25/07	7026124
	99	(90 - 110)	0.40	(0-10)	MCAWW 300.0A	01/25/07	7026124
		Dilution Factor: 1		Analysis Time...: 10:14			
Total Alkalinity		WO#:JNFDJ1AC-LCS/JNFDJ1AD-LCSD LCS Lot-Sample#: D7A250000-396					
	99	(90 - 110)			MCAWW 310.1	01/25/07	7025396
	100	(90 - 110)	1.4	(0-10)	MCAWW 310.1	01/25/07	7025396
		Dilution Factor: 1		Analysis Time...: 15:00			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D7A250184

Matrix.....: WATER

	PERCENT	RECOVERY	RPD	PREPARATION-	PREP		
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHOD	ANALYSIS DATE	BATCH #
Total Dissolved Solids		WO#:JNKR31AC-LCS/JNKR31AD-LCSD LCS Lot-Sample#: D7A260000-307					
	101	(86 - 106)			MCAWW 160.1	01/26/07	7026307
	107 N	(86 - 106)	5.8	(0-20)	MCAWW 160.1	01/26/07	7026307
		Dilution Factor: 1		Analysis Time...: 12:00			
Total Sulfide		WO#:JNFEP1AC-LCS/JNFEP1AD-LCSD LCS Lot-Sample#: D7A250000-492					
	95	(83 - 112)			MCAWW 376.2	01/25/07	7025492
	99	(83 - 112)	4.0	(0-10)	MCAWW 376.2	01/25/07	7025492
		Dilution Factor: 1		Analysis Time...: 12:00			
Total Suspended Solids		WO#:JNKV21AC-LCS/JNKV21AD-LCSD LCS Lot-Sample#: D7A290000-428					
	98	(86 - 114)			MCAWW 160.2	01/29/07	7029428
	92	(86 - 114)	6.3	(0-20)	MCAWW 160.2	01/29/07	7029428
		Dilution Factor: 1		Analysis Time...: 10:00			

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #....: D7A250184

Matrix.....: WATER

	SPIKE	MEASURED		PERCNT			PREPARATION-	PREP
PARAMETER	AMOUNT	AMOUNT	UNITS	RECVRY	RPD	METHOD	ANALYSIS DATE	BATCH #
pH			WO#:JNEMJ1AA-LCS/JNEMJ1AC-LCSD LCS Lot-Sample#: D7A250000-409					
	7.00	7.02	No Units	100		MCAWW 150.1	01/25/07	7025409
	7.00	7.03	No Units	100	0.14	MCAWW 150.1	01/25/07	7025409
			Dilution Factor: 1		Analysis Time...: 09:06			
Bromide			WO#:JNFC01AC-LCS/JNFC01AD-LCSD LCS Lot-Sample#: D7A260000-125					
	5.00	4.83	mg/L	97		MCAWW 300.0A	01/25/07	7026125
	5.00	4.85	mg/L	97	0.41	MCAWW 300.0A	01/25/07	7026125
			Dilution Factor: 1		Analysis Time...: 10:14			
Chloride			WO#:JNFCN1AC-LCS/JNFCN1AD-LCSD LCS Lot-Sample#: D7A260000-126					
	25.0	24.7	mg/L	99		MCAWW 300.0A	01/25/07	7026126
	25.0	24.7	mg/L	99	0.0	MCAWW 300.0A	01/25/07	7026126
			Dilution Factor: 1		Analysis Time...: 10:14			
Fluoride			WO#:JNFCK1AC-LCS/JNFCK1AD-LCSD LCS Lot-Sample#: D7A260000-127					
	5.00	5.02	mg/L	100		MCAWW 300.0A	01/25/07	7026127
	5.00	5.03	mg/L	101	0.19	MCAWW 300.0A	01/25/07	7026127
			Dilution Factor: 1		Analysis Time...: 10:14			
Nitrate			WO#:JNFC31AC-LCS/JNFC31AD-LCSD LCS Lot-Sample#: D7A260000-122					
	5.00	4.85	mg/L	97		MCAWW 300.0A	01/25/07	7026122
	5.00	4.90	mg/L	98	1.0	MCAWW 300.0A	01/25/07	7026122
			Dilution Factor: 1		Analysis Time...: 10:14			
Nitrite			WO#:JNFCT1AC-LCS/JNFCT1AD-LCSD LCS Lot-Sample#: D7A260000-123					
	5.00	5.09	mg/L	102		MCAWW 300.0A	01/25/07	7026123
	5.00	5.03	mg/L	101	1.2	MCAWW 300.0A	01/25/07	7026123
			Dilution Factor: 1		Analysis Time...: 10:14			
Sulfate			WO#:JNFC51AC-LCS/JNFC51AD-LCSD LCS Lot-Sample#: D7A260000-124					
	25.0	24.8	mg/L	99		MCAWW 300.0A	01/25/07	7026124
	25.0	24.7	mg/L	99	0.40	MCAWW 300.0A	01/25/07	7026124
			Dilution Factor: 1		Analysis Time...: 10:14			
Total Alkalinity			WO#:JNFDJ1AC-LCS/JNFDJ1AD-LCSD LCS Lot-Sample#: D7A250000-396					
	200	198	mg/L	99		MCAWW 310.1	01/25/07	7025396
	200	200	mg/L	100	1.4	MCAWW 310.1	01/25/07	7025396
			Dilution Factor: 1		Analysis Time...: 15:00			

(Continued on next page)

General Chemistry

Matrix.....: WATER

NOTE (S) :

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: D7A250184

Matrix.....: WATER

Date Sampled....: 01/24/07 11:35 Date Received...: 01/25/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide			WO#: JNDDM1CK-MS/JNDDM1CL-MSD MS Lot-Sample #: D7A250184-001				
	102	(80 - 120)			MCAWW 300.0A	01/25/07	7026125
	107	(80 - 120)	5.1	(0-20)	MCAWW 300.0A	01/25/07	7026125
			Dilution Factor: 1				
			Analysis Time...: 13:35				
Chloride			WO#: JNDDM1CF-MS/JNDDM1CG-MSD MS Lot-Sample #: D7A250184-001				
	102	(80 - 120)			MCAWW 300.0A	01/25/07	7026126
	107	(80 - 120)	3.8	(0-20)	MCAWW 300.0A	01/25/07	7026126
			Dilution Factor: 1				
			Analysis Time...: 13:35				
Fluoride			WO#: JNDDM1CD-MS/JNDDM1CE-MSD MS Lot-Sample #: D7A250184-001				
	98	(80 - 120)			MCAWW 300.0A	01/25/07	7026127
	103	(80 - 120)	4.1	(0-20)	MCAWW 300.0A	01/25/07	7026127
			Dilution Factor: 1				
			Analysis Time...: 13:35				
Nitrate			WO#: JNC861A6-MS/JNC861A7-MSD MS Lot-Sample #: D7A250167-002				
	106	(80 - 120)			MCAWW 300.0A	01/25/07	7026122
	107	(80 - 120)	1.4	(0-20)	MCAWW 300.0A	01/25/07	7026122
			Dilution Factor: 1				
			Analysis Time...: 11:33				
Nitrite			WO#: JNDDM1CH-MS/JNDDM1CJ-MSD MS Lot-Sample #: D7A250184-001				
	108	(80 - 120)			MCAWW 300.0A	01/25/07	7026123
	113	(80 - 120)	4.6	(0-20)	MCAWW 300.0A	01/25/07	7026123
			Dilution Factor: 1				
			Analysis Time...: 13:35				
Sulfate			WO#: JNDDM1CM-MS/JNDDM1CN-MSD MS Lot-Sample #: D7A250184-001				
	100	(80 - 120)			MCAWW 300.0A	01/25/07	7026124
	105	(80 - 120)	3.2	(0-20)	MCAWW 300.0A	01/25/07	7026124
			Dilution Factor: 1				
			Analysis Time...: 13:35				
Total Sulfide			WO#: JNDDM1CP-MS/JNDDM1CQ-MSD MS Lot-Sample #: D7A250184-001				
	111	(20 - 156)			MCAWW 376.2	01/25/07	7025492
	113	(20 - 156)	1.8	(0-30)	MCAWW 376.2	01/25/07	7025492
			Dilution Factor: 1				
			Analysis Time...: 12:00				

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D7A250184

Matrix.....: WATER

Date Sampled...: 01/24/07 11:35 Date Received...: 01/25/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide									
WO#: JNDDM1CK-MS/JNDDM1CL-MSD MS Lot-Sample #: D7A250184-001									
	ND	5.00	5.09	mg/L	102		MCAWW 300.0A	01/25/07	7026125
	ND	5.00	5.36	mg/L	107	5.1	MCAWW 300.0A	01/25/07	7026125
Dilution Factor: 1									
Analysis Time...: 13:35									
Chloride									
WO#: JNDDM1CF-MS/JNDDM1CG-MSD MS Lot-Sample #: D7A250184-001									
	6.8	25.0	32.4	mg/L	102		MCAWW 300.0A	01/25/07	7026126
	6.8	25.0	33.6	mg/L	107	3.8	MCAWW 300.0A	01/25/07	7026126
Dilution Factor: 1									
Analysis Time...: 13:35									
Fluoride									
WO#: JNDDM1CD-MS/JNDDM1CE-MSD MS Lot-Sample #: D7A250184-001									
	0.66	5.00	5.55	mg/L	98		MCAWW 300.0A	01/25/07	7026127
	0.66	5.00	5.79	mg/L	103	4.1	MCAWW 300.0A	01/25/07	7026127
Dilution Factor: 1									
Analysis Time...: 13:35									
Nitrate									
WO#: JNC861A6-MS/JNC861A7-MSD MS Lot-Sample #: D7A250167-002									
	0.29	5.00	5.58	mg/L	106		MCAWW 300.0A	01/25/07	7026122
	0.29	5.00	5.66	mg/L	107	1.4	MCAWW 300.0A	01/25/07	7026122
Dilution Factor: 1									
Analysis Time...: 11:33									
Nitrite									
WO#: JNDDM1CH-MS/JNDDM1CJ-MSD MS Lot-Sample #: D7A250184-001									
	ND	5.00	5.38	mg/L	108		MCAWW 300.0A	01/25/07	7026123
	ND	5.00	5.64	mg/L	113	4.6	MCAWW 300.0A	01/25/07	7026123
Dilution Factor: 1									
Analysis Time...: 13:35									
Sulfate									
WO#: JNDDM1CM-MS/JNDDM1CN-MSD MS Lot-Sample #: D7A250184-001									
	14	25.0	38.7	mg/L	100		MCAWW 300.0A	01/25/07	7026124
	14	25.0	40.0	mg/L	105	3.2	MCAWW 300.0A	01/25/07	7026124
Dilution Factor: 1									
Analysis Time...: 13:35									
Total Sulfide									
WO#: JNDDM1CP-MS/JNDDM1CQ-MSD MS Lot-Sample #: D7A250184-001									
	ND	0.558	0.621	mg/L	111		MCAWW 376.2	01/25/07	7025492
	ND	0.558	0.632	mg/L	113	1.8	MCAWW 376.2	01/25/07	7025492
Dilution Factor: 1									
Analysis Time...: 12:00									

NOTE (S) :

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: D7A250184

Work Order #....: JNDF5-SMP
JNDF5-DUP

Matrix.....: WATER

Date Sampled....: 01/24/07 10:30

Date Received...: 01/25/07

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Alkalinity						SD Lot-Sample #: D7A250196-001		
	1000 J	1000	mg/L	1.0	(0-10)	MCAWW 310.1	01/25/07	7025396
			Dilution Factor: 1			Analysis Time...: 15:00		

NOTE(S) :

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

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: D7A250184

Work Order #....: JNDLH-SMP
JNDLH-DUP

Matrix.....: WATER

Date Sampled....: 01/24/07 10:30

Date Received...: 01/25/07

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.4	7.4	No Units	0.27	(0-5.0)	MCAWW 150.1	01/25/07	7025405
				Dilution Factor: 1	Analysis Time...: 09:06			

SD Lot-Sample #: D7A250212-003

General Chemistry

Matrix.....: WATER

Date Sampled...: 01/23/07 14:00 Date Received...: 01/23/07

PARAM RESULT		DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide						SD Lot-Sample #:	D7A230260-001	
0.44		0.41	mg/L	6.4	(0-20)	MCAWW 300.0A	01/25-01/26/07	7026125
Dilution Factor: 1				Analysis Time.: 10:34				

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: D7A250184

Work Order #....: JND0V-SMP
JND0V-DUP

Matrix.....: WATER

Date Sampled....: 01/23/07 14:20 Date Received...: 01/25/07

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	520	530	mg/L	0.76	(0-20)	MCAWW 160.1	01/26/07	7026307
				Dilution Factor: 1	Analysis Time...: 12:00			
SD Lot-Sample #: D7A250245-001								

General Chemistry

Matrix.....: WATER

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #:	D7A260176-001	
	4.0	4.0	mg/L	0.0	(0-20)	MCAWW 160.2	01/29/07	7029428
			Dilution Factor: 1			Analysis Time.: 10:00		

Chain of
Custody Record

4.16⁰
AB TR1
1/25/07



STL

STL Denver
4955 Yarrow Street
Arvada, CO 80002

STL-4124 (0901)

Client PERKINS <u>PERKINS Co</u> <u>NORFOLK</u>		Project Manager <u>KONRAD QUAST</u>		Date <u>1-24-07</u>	Chain of Custody Number															
Address <u>950 S. CUMBER ST.</u>		Telephone Number (Area Code)/Fax Number <u>303-782-0164</u> / <u>303-782-0165</u>		Lab Number	Page <u> </u> of <u> </u>															
City <u>Denver</u>	State <u>CO</u>	Zip Code <u>80246</u>	Site Contact	Lab Contact																
Project Name and Location (State) <u>PARSON BASIN BASELINE STD, CO</u>			Carrier/Waybill Number																	
Contract/Purchase Order/Quote No. <u>73407</u>			Matrix		Containers & Preservatives															
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed)		Special Instructions/ Conditions of Receipt			
<u>WHITE / hlv</u>			<u>1-24-07</u>	<u>13:50</u>		X			5			3		1	X	X		X	X	X
<u>SNOW / hlv</u>			<u>1-24-07</u>	<u>15:15</u>		X			5			3		1	X	X		X	X	X
Possible Hazard Identification			Sample Disposal																	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Return To Client			<input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <u> </u> Months (A fee may be assessed if samples are retained longer than 1 month)																	
Turn Around Time Required																				
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other <u>STD</u>																				
1. Relinquished By <u>[Signature]</u>			Date <u>1-24-07</u>	Time <u>17:05</u>	1. Received By <u>[Signature]</u>		Date <u>1/25/07</u>	Time <u>1000</u>												
2. Relinquished By <u>[Signature]</u>			Date	Time	2. Received By <u>[Signature]</u>		Date	Time												
3. Relinquished By			Date	Time	3. Received By		Date	Time												
Comments																				

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy