



STL

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ANALYTICAL REPORT

**Raton Basin Baseline STD, CO
73407**

Lot #: D7A260184

Tom Melland

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

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in cursive script, appearing to read "Donna Rydberg".

**Donna Rydberg
Project Manager**

February 9, 2007

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CASE NARRATIVE

D7A260184

The following report contains the analytical results for one water sample submitted to STL Denver by Norwest Corporation for the Raton Basin Baseline site. The sample was received January 26, 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 sample presented in this report was received at the laboratory in good condition and at a temperature of 5.3°C.

Method RSK SOP-175 – GC Volatiles

Sample "Roberts 1 WW" was analyzed at a dilution to bring target compounds within the linear calibration range of the instrument. Reporting limits were raised accordingly.

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

The MS/MSD recoveries for Barium in prep batch 7030460 and for Boron, Calcium and Sodium in prep batch 7032548 were not calculated due to concentrations in the parent samples at levels greater than four times the spiked amount.

Several spike recoveries were outside control limits in the MS and/or MSD samples associated with prep batch 7032548. 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.

Lot D7A260184 continued

General Chemistry – Various

No anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D7A260184

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ROBERTS 1 WW 01/25/07 13:10 001				
Methane	860	10	ug/L	RSK SOP-175
Boron - DISSOLVED	0.035 B	0.10	mg/L	MCAWW 200.7
Calcium - DISSOLVED	15	0.20	mg/L	MCAWW 200.7
Magnesium - DISSOLVED	5.9	0.20	mg/L	MCAWW 200.7
Potassium - DISSOLVED	3.4	3.0	mg/L	MCAWW 200.7
Sodium - DISSOLVED	300	5.0	mg/L	MCAWW 200.7
Zinc - DISSOLVED	0.010 B	0.020	mg/L	MCAWW 200.7
Barium - DISSOLVED	0.59	0.0010	mg/L	MCAWW 200.8
Copper - DISSOLVED	0.00022 B	0.0020	mg/L	MCAWW 200.8
Lead - DISSOLVED	0.00027 B	0.0010	mg/L	MCAWW 200.8
Manganese - DISSOLVED	0.011	0.0010	mg/L	MCAWW 200.8
pH	7.8	0.10	No Units	MCAWW 150.1
Total Dissolved	740	10	mg/L	MCAWW 160.1
Solids				
Chloride	9.9	3.0	mg/L	MCAWW 300.0A
Sulfate	7.1	5.0	mg/L	MCAWW 300.0A
Fluoride	0.96	0.50	mg/L	MCAWW 300.0A
Bromide	0.15 B	0.20	mg/L	MCAWW 300.0A
Total Sulfide	0.19	0.050	mg/L	MCAWW 376.2
Bicarbonate, as CaCO3	680	5.0	mg/L	MCAWW 310.1
Total Alkalinity	680	5.0	mg/L	MCAWW 310.1

METHODS SUMMARY

D7A260184

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

D7A260184

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 150.1	Danielle M. Fougere	006481
MCAWW 160.1	Kevin Bloom	006134
MCAWW 160.2	Kevin Bloom	006134
MCAWW 200.7	Lynn-Anne Trudell	006645
MCAWW 200.7	Lynn-Anne Trudell	6645
MCAWW 200.8	Thomas Lill	6929
MCAWW 300.0A	Grant Henshaw	004878
MCAWW 310.1	Bilikisu Davies-Moir	021821
MCAWW 376.2	Christopher Grisdale	009582
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

D7A260184

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
JNEVH	001	ROBERTS 1 WW	01/25/07	13:10

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: ROBERTS 1 WW

GC Volatiles

Lot-Sample #....: D7A260184-001 Work Order #....: JNFVH1AR Matrix.....: WATER
Date Sampled....: 01/25/07 13:10 Date Received...: 01/26/07
Prep Date.....: 01/30/07 Analysis Date...: 01/30/07
Prep Batch #....: 7031461 Analysis Time...: 15:08
Dilution Factor: 2
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Ethane	ND	10	ug/L	0.49
Ethene	ND	10	ug/L	0.80
Methane	860	10	ug/L	0.44

Applied Hydrology Associates Inc

Client Sample ID: ROBERTS 1 WW

GC Semivolatiles

Lot-Sample #....: D7A260184-001 Work Order #....: JNFVH1AT Matrix.....: WATER
Date Sampled....: 01/25/07 13:10 Date Received...: 01/26/07
Prep Date.....: 01/26/07 Analysis Date...: 01/29/07
Prep Batch #....: 7026171 Analysis Time...: 22:22
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	115	(48 - 117)

Applied Hydrology Associates Inc

Client Sample ID: ROBERTS 1 WW

DISSOLVED Metals

Lot-Sample #...: D7A260184-001

Matrix.....: WATER

Date Sampled...: 01/25/07 13:10 Date Received...: 01/26/07

<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 #...: 7030460						
Arsenic	ND	0.0050	mg/L	MCAWW 200.8	01/31-02/01/07	JNFBVH1A6
		Dilution Factor: 1		Analysis Time...: 03:07	MDL.....: 0.00050	
Barium	0.59	0.0010	mg/L	MCAWW 200.8	01/31-02/01/07	JNFBVH1A7
		Dilution Factor: 1		Analysis Time...: 03:07	MDL.....: 0.00012	
Copper	0.00022 B	0.0020	mg/L	MCAWW 200.8	01/31-02/01/07	JNFBVH1A8
		Dilution Factor: 1		Analysis Time...: 03:07	MDL.....: 0.00020	
Lead	0.00027 B	0.0010	mg/L	MCAWW 200.8	01/31-02/01/07	JNFBVH1A9
		Dilution Factor: 1		Analysis Time...: 03:07	MDL.....: 0.00010	
Manganese	0.011	0.0010	mg/L	MCAWW 200.8	01/31-02/01/07	JNFBVH1CA
		Dilution Factor: 1		Analysis Time...: 03:07	MDL.....: 0.00012	
Selenium	ND	0.0050	mg/L	MCAWW 200.8	01/31-02/01/07	JNFBVH1CC
		Dilution Factor: 1		Analysis Time...: 03:07	MDL.....: 0.00010	
Prep Batch #...: 7032548						
Boron	0.035 B	0.10	mg/L	MCAWW 200.7	02/02/07	JNFBVH1AU
		Dilution Factor: 1		Analysis Time...: 21:47	MDL.....: 0.00059	
Cadmium	ND	0.0050	mg/L	MCAWW 200.7	02/02/07	JNFBVH1AV
		Dilution Factor: 1		Analysis Time...: 21:47	MDL.....: 0.00045	
Calcium	15	0.20	mg/L	MCAWW 200.7	02/02/07	JNFBVH1AW
		Dilution Factor: 1		Analysis Time...: 21:47	MDL.....: 0.0034	
Chromium	ND	0.010	mg/L	MCAWW 200.7	02/02/07	JNFBVH1AX
		Dilution Factor: 1		Analysis Time...: 21:47	MDL.....: 0.00026	
Iron	ND	0.10	mg/L	MCAWW 200.7	02/02/07	JNFBVH1A0
		Dilution Factor: 1		Analysis Time...: 21:47	MDL.....: 0.0022	
Magnesium	5.9	0.20	mg/L	MCAWW 200.7	02/02-02/05/07	JNFBVH1A1
		Dilution Factor: 1		Analysis Time...: 20:16	MDL.....: 0.0043	
Potassium	3.4	3.0	mg/L	MCAWW 200.7	02/02-02/05/07	JNFBVH1A2
		Dilution Factor: 1		Analysis Time...: 20:16	MDL.....: 0.0024	

(Continued on next page)

Applied Hydrology Associates Inc

Client Sample ID: ROBERTS 1 WW

DISSOLVED Metals

Lot-Sample #...: D7A260184-001

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	02/02/07	JNFVH1A3
		Dilution Factor: 1		Analysis Time...: 21:47	MDL.....: 0.0028	
Sodium	300	5.0	mg/L	MCAWW 200.7	02/02-02/05/07	JNFVH1A4
		Dilution Factor: 1		Analysis Time...: 20:16	MDL.....: 0.092	
Zinc	0.010 B	0.020	mg/L	MCAWW 200.7	02/02/07	JNFVH1A5
		Dilution Factor: 1		Analysis Time...: 21:47	MDL.....: 0.0045	

NOTE(S) :

B Estimated result. Result is less than RL.

Applied Hydrology Associates Inc

Client Sample ID: ROBERTS 1 WW

General Chemistry

Lot-Sample #...: D7A260184-001 Work Order #...: JNFVH Matrix.....: WATER

Date Sampled...: 01/25/07 13:10 Date Received...: 01/26/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.8	0.10	No Units	MCAWW 150.1	01/26/07	7026411
		Dilution Factor: 1		Analysis Time...: 14:43	MDL.....:	
Bicarbonate, as CaCO ₃	680	5.0	mg/L	MCAWW 310.1	01/26/07	7030109
		Dilution Factor: 1		Analysis Time...: 13:00	MDL.....: 1.1	
Bromide	0.15 B	0.20	mg/L	MCAWW 300.0A	01/26/07	7027067
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.11	
Carbonate, as CaCO ₃	ND	5.0	mg/L	MCAWW 310.1	01/26/07	7030110
		Dilution Factor: 1		Analysis Time...: 13:00	MDL.....: 1.1	
Chloride	9.9	3.0	mg/L	MCAWW 300.0A	01/26/07	7027068
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.25	
Fluoride	0.96	0.50	mg/L	MCAWW 300.0A	01/26/07	7027069
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.060	
Hydroxide, as CaCO ₃	ND	5.0	mg/L	MCAWW 310.1	01/26/07	7030111
		Dilution Factor: 1		Analysis Time...: 13:00	MDL.....: 1.1	
Nitrate	ND	0.50	mg/L	MCAWW 300.0A	01/26/07	7027066
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.042	
Nitrite	ND	0.50	mg/L	MCAWW 300.0A	01/26/07	7027064
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.049	
Sulfate	7.1	5.0	mg/L	MCAWW 300.0A	01/26/07	7027065
		Dilution Factor: 1		Analysis Time...: 14:13	MDL.....: 0.23	
Total Alkalinity	680	5.0	mg/L	MCAWW 310.1	01/26/07	7030106
		Dilution Factor: 1		Analysis Time...: 13:00	MDL.....: 1.1	
Total Dissolved Solids	740	10	mg/L	MCAWW 160.1	01/29/07	7029432
		Dilution Factor: 1		Analysis Time...: 14:30	MDL.....: 4.7	
Total Sulfide	0.19	0.050	mg/L	MCAWW 376.2	01/30/07	7030429
		Dilution Factor: 1		Analysis Time...: 16:00	MDL.....: 0.0071	

(Continued on next page)

Applied Hydrology Associates Inc

Client Sample ID: ROBERTS 1 WW

General Chemistry

Lot-Sample #....: D7A260184-001

Work Order #....: JNFVH

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.

QC DATA ASSOCIATION SUMMARY

D7A260184

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		7026411	7027036
	WATER	MCAWW 160.1		7029432	7031053
	WATER	MCAWW 160.2		7029428	7030116
	WATER	MCAWW 200.7		7032548	7032353
	WATER	MCAWW 310.1		7030110	
	WATER	MCAWW 300.0A		7027068	7027048
	WATER	MCAWW 300.0A		7027065	7027059
	WATER	MCAWW 300.0A		7027069	7027047
	WATER	MCAWW 300.0A		7027066	7027058
	WATER	MCAWW 300.0A		7027067	7027057
	WATER	MCAWW 300.0A		7027064	7027049
	WATER	SW846 8015B		7026171	7030082
	WATER	RSK SOP-175		7031461	
	WATER	MCAWW 310.1		7030111	
	WATER	MCAWW 200.8		7030460	7030267
	WATER	MCAWW 376.2		7030429	7030236
	WATER	MCAWW 310.1		7030109	
	WATER	MCAWW 310.1		7030106	7030088

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: D7A260184
MB Lot-Sample #: D7A310000-461
Analysis Date...: 01/30/07
Dilution Factor: 1

Work Order #...: JNNP91AA
Prep Date.....: 01/30/07
Prep Batch #...: 7031461

Matrix.....: WATER
Analysis Time...: 10:17

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
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 #....: D7A260184 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 #...: D7A260184 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 #...: D7A260184
 MB Lot-Sample #: D7A260000-171
 Analysis Date...: 01/29/07
 Dilution Factor: 1

Work Order #...: JNFHN1AA
 Prep Date.....: 01/26/07
 Prep Batch #...: 7026171

Matrix.....: WATER
 Analysis Time...: 18:20

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
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 #....: D7A260184 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 #....: D7A260184 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 AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
Diesel Range Organics	2.00	1.80	mg/L	90	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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: D7A260184 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 #...: D7A260184 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 #...: D7A260184

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			PREPARATION-	WORK
		LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
MB Lot-Sample #: D7A300000-460 Prep Batch #...: 7030460						
Arsenic	ND	0.0050	mg/L	MCAWW 200.8	01/31-02/01/07	JNLWD1AA
		Dilution Factor: 1				
		Analysis Time...: 03:00				
Barium	ND	0.0010	mg/L	MCAWW 200.8	01/31-02/01/07	JNLWD1AC
		Dilution Factor: 1				
		Analysis Time...: 03:00				
Copper	ND	0.0020	mg/L	MCAWW 200.8	01/31-02/01/07	JNLWD1AD
		Dilution Factor: 1				
		Analysis Time...: 03:00				
Lead	ND	0.0010	mg/L	MCAWW 200.8	01/31-02/01/07	JNLWD1AE
		Dilution Factor: 1				
		Analysis Time...: 03:00				
Manganese	ND	0.0010	mg/L	MCAWW 200.8	01/31-02/01/07	JNLWD1AF
		Dilution Factor: 1				
		Analysis Time...: 03:00				
Selenium	ND	0.0050	mg/L	MCAWW 200.8	01/31-02/01/07	JNLWD1AG
		Dilution Factor: 1				
		Analysis Time...: 03:00				
MB Lot-Sample #: D7B010000-548 Prep Batch #...: 7032548						
Boron	ND	0.10	mg/L	MCAWW 200.7	02/02/07	JNRRE1CK
		Dilution Factor: 1				
		Analysis Time...: 21:36				
Cadmium	ND	0.0050	mg/L	MCAWW 200.7	02/02/07	JNRRE1CL
		Dilution Factor: 1				
		Analysis Time...: 21:36				
Calcium	ND	0.20	mg/L	MCAWW 200.7	02/02/07	JNRRE1AG
		Dilution Factor: 1				
		Analysis Time...: 21:36				
Chromium	ND	0.010	mg/L	MCAWW 200.7	02/02/07	JNRRE1AJ
		Dilution Factor: 1				
		Analysis Time...: 21:36				

(Continued on next page)

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: D7A260184

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Iron	ND	0.10	mg/L	MCAWW 200.7	02/02/07	JNRRE1AL
		Dilution Factor: 1				
		Analysis Time...: 21:36				
Magnesium	ND	0.20	mg/L	MCAWW 200.7	02/02-02/05/07	JNRRE1AN
		Dilution Factor: 1				
		Analysis Time...: 19:42				
Potassium	ND	3.0	mg/L	MCAWW 200.7	02/02-02/05/07	JNRRE1AM
		Dilution Factor: 1				
		Analysis Time...: 19:42				
Silver	ND	0.010	mg/L	MCAWW 200.7	02/02/07	JNRRE1CM
		Dilution Factor: 1				
		Analysis Time...: 21:36				
Sodium	ND	5.0	mg/L	MCAWW 200.7	02/02-02/05/07	JNRRE1AU
		Dilution Factor: 1				
		Analysis Time...: 19:42				
Zinc	ND	0.020	mg/L	MCAWW 200.7	02/02/07	JNRRE1AT
		Dilution Factor: 1				
		Analysis Time...: 21:36				

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D7A260184

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D7A300000-460 Prep Batch #... : 7030460					
Arsenic	98	(89 - 111)	MCAWW 200.8	01/31-02/01/07	JNLWD1AH
		Dilution Factor: 1		Analysis Time...: 03:03	
Barium	91	(89 - 117)	MCAWW 200.8	01/31-02/01/07	JNLWD1AJ
		Dilution Factor: 1		Analysis Time...: 03:03	
Copper	97	(90 - 117)	MCAWW 200.8	01/31-02/01/07	JNLWD1AK
		Dilution Factor: 1		Analysis Time...: 03:03	
Lead	103	(88 - 119)	MCAWW 200.8	01/31-02/01/07	JNLWD1AL
		Dilution Factor: 1		Analysis Time...: 03:03	
Manganese	100	(87 - 124)	MCAWW 200.8	01/31-02/01/07	JNLWD1AM
		Dilution Factor: 1		Analysis Time...: 03:03	
Selenium	94	(82 - 114)	MCAWW 200.8	01/31-02/01/07	JNLWD1AN
		Dilution Factor: 1		Analysis Time...: 03:03	
LCS Lot-Sample#: D7B010000-548 Prep Batch #... : 7032548					
Boron	96	(86 - 110)	MCAWW 200.7	02/02/07	JNRRE1CP
		Dilution Factor: 1		Analysis Time...: 21:42	
Cadmium	99	(88 - 111)	MCAWW 200.7	02/02/07	JNRRE1CQ
		Dilution Factor: 1		Analysis Time...: 21:42	
Calcium	95	(90 - 111)	MCAWW 200.7	02/02/07	JNRRE1A4
		Dilution Factor: 1		Analysis Time...: 21:42	
Chromium	99	(90 - 113)	MCAWW 200.7	02/02/07	JNRRE1A6
		Dilution Factor: 1		Analysis Time...: 21:42	
Iron	98	(89 - 116)	MCAWW 200.7	02/02-02/07/07	JNRRE1A8
		Dilution Factor: 1		Analysis Time...: 10:53	
Magnesium	101	(90 - 113)	MCAWW 200.7	02/02-02/05/07	JNRRE1CA
		Dilution Factor: 1		Analysis Time...: 19:47	
Potassium	104	(89 - 114)	MCAWW 200.7	02/02-02/05/07	JNRRE1A9
		Dilution Factor: 1		Analysis Time...: 19:47	

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D7A260184

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	106	(86 - 120)	MCAWW 200.7	02/02/07	JNRRE1CR
		Dilution Factor: 1		Analysis Time...: 21:42	
Sodium	104	(90 - 117)	MCAWW 200.7	02/02-02/05/07	JNRRE1CG
		Dilution Factor: 1		Analysis Time...: 19:47	
Zinc	99	(84 - 111)	MCAWW 200.7	02/02/07	JNRRE1CF
		Dilution Factor: 1		Analysis Time...: 21:42	

NOTE(S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D7A260184

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D7A300000-460 Prep Batch #...: 7030460							
Arsenic	0.0400	0.0392	mg/L	98	MCAWW 200.8	01/31-02/01/07	JNLWD1AH
			Dilution Factor: 1		Analysis Time...: 03:03		
Barium	0.0400	0.0364	mg/L	91	MCAWW 200.8	01/31-02/01/07	JNLWD1AJ
			Dilution Factor: 1		Analysis Time...: 03:03		
Copper	0.0400	0.0390	mg/L	97	MCAWW 200.8	01/31-02/01/07	JNLWD1AK
			Dilution Factor: 1		Analysis Time...: 03:03		
Lead	0.0400	0.0411	mg/L	103	MCAWW 200.8	01/31-02/01/07	JNLWD1AL
			Dilution Factor: 1		Analysis Time...: 03:03		
Manganese	0.0400	0.0400	mg/L	100	MCAWW 200.8	01/31-02/01/07	JNLWD1AM
			Dilution Factor: 1		Analysis Time...: 03:03		
Selenium	0.0400	0.0374	mg/L	94	MCAWW 200.8	01/31-02/01/07	JNLWD1AN
			Dilution Factor: 1		Analysis Time...: 03:03		
LCS Lot-Sample#: D7B010000-548 Prep Batch #...: 7032548							
Boron	1.00	0.961	mg/L	96	MCAWW 200.7	02/02/07	JNRRE1CP
			Dilution Factor: 1		Analysis Time...: 21:42		
Cadmium	0.100	0.0992	mg/L	99	MCAWW 200.7	02/02/07	JNRRE1CQ
			Dilution Factor: 1		Analysis Time...: 21:42		
Calcium	50.0	47.6	mg/L	95	MCAWW 200.7	02/02/07	JNRRE1A4
			Dilution Factor: 1		Analysis Time...: 21:42		
Chromium	0.200	0.199	mg/L	99	MCAWW 200.7	02/02/07	JNRRE1A6
			Dilution Factor: 1		Analysis Time...: 21:42		
Iron	1.00	0.977	mg/L	98	MCAWW 200.7	02/02-02/07/07	JNRRE1A8
			Dilution Factor: 1		Analysis Time...: 10:53		
Magnesium	50.0	50.5	mg/L	101	MCAWW 200.7	02/02-02/05/07	JNRRE1CA
			Dilution Factor: 1		Analysis Time...: 19:47		
Potassium	50.0	51.9	mg/L	104	MCAWW 200.7	02/02-02/05/07	JNRRE1A9
			Dilution Factor: 1		Analysis Time...: 19:47		

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D7A260184

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	0.0500	0.0529	mg/L	106	MCAWW 200.7	02/02/07	JNRRE1CR
			Dilution Factor: 1		Analysis Time...: 21:42		
Sodium	50.0	51.8	mg/L	104	MCAWW 200.7	02/02-02/05/07	JNRRE1CG
			Dilution Factor: 1		Analysis Time...: 19:47		
Zinc	0.500	0.494	mg/L	99	MCAWW 200.7	02/02/07	JNRRE1CF
			Dilution Factor: 1		Analysis Time...: 21:42		

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D7A260184

Matrix.....: WATER

Date Sampled...: 01/25/07 13:10 Date Received...: 01/26/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D7A260184-001 Prep Batch #...: 7030460						
Arsenic	118	(79 - 120)		MCAWW 200.8	01/31-02/01/07	JNFVH1CU
	115	(79 - 120)	3.2 (0-30)	MCAWW 200.8	01/31-02/01/07	JNFVH1CV
			Dilution Factor: 1			
			Analysis Time...: 03:11			
Barium	NC,MSB	(83 - 118)		MCAWW 200.8	01/31-02/01/07	JNFVH1CW
	NC,MSB	(83 - 118)	(0-30)	MCAWW 200.8	01/31-02/01/07	JNFVH1CX
			Dilution Factor: 1			
			Analysis Time...: 03:11			
Copper	100	(82 - 114)		MCAWW 200.8	01/31-02/01/07	JNFVH1C0
	97	(82 - 114)	2.5 (0-30)	MCAWW 200.8	01/31-02/01/07	JNFVH1C1
			Dilution Factor: 1			
			Analysis Time...: 03:11			
Lead	104	(79 - 119)		MCAWW 200.8	01/31-02/01/07	JNFVH1C2
	98	(79 - 119)	5.9 (0-30)	MCAWW 200.8	01/31-02/01/07	JNFVH1C3
			Dilution Factor: 1			
			Analysis Time...: 03:11			
Manganese	100	(57 - 149)		MCAWW 200.8	01/31-02/01/07	JNFVH1C4
	98	(57 - 149)	1.2 (0-35)	MCAWW 200.8	01/31-02/01/07	JNFVH1C5
			Dilution Factor: 1			
			Analysis Time...: 03:11			
Selenium	128	(64 - 134)		MCAWW 200.8	01/31-02/01/07	JNFVH1C6
	120	(64 - 134)	6.4 (0-35)	MCAWW 200.8	01/31-02/01/07	JNFVH1C7
			Dilution Factor: 1			
			Analysis Time...: 03:11			

NOTE(S) :

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

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 #...: D7A260184

Matrix.....: WATER

Date Sampled...: 01/25/07 13:10 Date Received...: 01/26/07

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: D7A260184-001 Prep Batch #...: 7030460

Arsenic

ND	0.0400	0.0476	mg/L	118			MCAWW 200.8	01/31-02/01/07	JNFVH1CU
ND	0.0400	0.0461	mg/L	115	3.2		MCAWW 200.8	01/31-02/01/07	JNFVH1CV
Dilution Factor: 1									
Analysis Time...: 03:11									

Barium

0.59	0.0400	0.666	mg/L				MCAWW 200.8	01/31-02/01/07	JNFVH1CW
Qualifiers: NC,MSB									
0.59	0.0400	0.652	mg/L				MCAWW 200.8	01/31-02/01/07	JNFVH1CX
Qualifiers: NC,MSB									
Dilution Factor: 1									
Analysis Time...: 03:11									

Copper

0.00022	0.0400	0.0400	mg/L	100			MCAWW 200.8	01/31-02/01/07	JNFVH1C0
0.00022	0.0400	0.0391	mg/L	97	2.5		MCAWW 200.8	01/31-02/01/07	JNFVH1C1
Dilution Factor: 1									
Analysis Time...: 03:11									

Lead

0.00027	0.0400	0.0418	mg/L	104			MCAWW 200.8	01/31-02/01/07	JNFVH1C2
0.00027	0.0400	0.0394	mg/L	98	5.9		MCAWW 200.8	01/31-02/01/07	JNFVH1C3
Dilution Factor: 1									
Analysis Time...: 03:11									

Manganese

0.011	0.0400	0.0506	mg/L	100			MCAWW 200.8	01/31-02/01/07	JNFVH1C4
0.011	0.0400	0.0500	mg/L	98	1.2		MCAWW 200.8	01/31-02/01/07	JNFVH1C5
Dilution Factor: 1									
Analysis Time...: 03:11									

Selenium

ND	0.0400	0.0512	mg/L	128			MCAWW 200.8	01/31-02/01/07	JNFVH1C6
ND	0.0400	0.0480	mg/L	120	6.4		MCAWW 200.8	01/31-02/01/07	JNFVH1C7
Dilution Factor: 1									
Analysis Time...: 03:11									

NOTE(S) :

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

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 #....: D7A260184

Matrix.....: WATER

Date Sampled....: 01/30/07 10:15 Date Received...: 01/31/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D7A310178-001 Prep Batch #....: 7032548						
Boron	NC,MSB	(86 - 110)		MCAWW 200.7	02/02/07	JNMXE1EE
	NC,MSB	(86 - 110)	(0-20)	MCAWW 200.7	02/02/07	JNMXE1EF
		Dilution Factor: 1				
		Analysis Time...: 22:10				
Cadmium	101	(88 - 111)		MCAWW 200.7	02/02/07	JNMXE1EH
	101	(88 - 111)	0.49 (0-20)	MCAWW 200.7	02/02/07	JNMXE1EJ
		Dilution Factor: 1				
		Analysis Time...: 22:10				
Calcium	NC,MSB	(90 - 111)		MCAWW 200.7	02/02/07	JNMXE1D0
	NC,MSB	(90 - 111)	(0-20)	MCAWW 200.7	02/02/07	JNMXE1D1
		Dilution Factor: 1				
		Analysis Time...: 22:10				
Chromium	96	(90 - 113)		MCAWW 200.7	02/02/07	JNMXE1CF
	97	(90 - 113)	0.86 (0-20)	MCAWW 200.7	02/02/07	JNMXE1CG
		Dilution Factor: 1				
		Analysis Time...: 22:10				
Iron	88 N	(89 - 116)		MCAWW 200.7	02/02/07	JNMXE1CK
	89	(89 - 116)	0.66 (0-20)	MCAWW 200.7	02/02/07	JNMXE1CL
		Dilution Factor: 1				
		Analysis Time...: 22:10				
Magnesium	91	(90 - 113)		MCAWW 200.7	02/02-02/05/07	JNMXE1CP
	93	(90 - 113)	0.42 (0-20)	MCAWW 200.7	02/02-02/05/07	JNMXE1CQ
		Dilution Factor: 1				
		Analysis Time...: 20:04				
Potassium	124 N	(89 - 114)		MCAWW 200.7	02/02-02/05/07	JNMXE1CM
	129 N	(89 - 114)	2.6 (0-20)	MCAWW 200.7	02/02-02/05/07	JNMXE1CN
		Dilution Factor: 1				
		Analysis Time...: 20:04				
Silver	110	(86 - 120)		MCAWW 200.7	02/02/07	JNMXE1EL
	113	(86 - 120)	2.5 (0-20)	MCAWW 200.7	02/02/07	JNMXE1EM
		Dilution Factor: 1				
		Analysis Time...: 22:10				

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: D7A260184

Matrix.....: WATER

Date Sampled....: 01/30/07 10:15 Date Received...: 01/31/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Sodium	NC,MSB	(90 - 117)		MCAWW 200.7	02/02-02/05/07	JNMXE1C2
	NC,MSB	(90 - 117)	(0-20)	MCAWW 200.7	02/02-02/05/07	JNMXE1C3
		Dilution Factor: 1				
		Analysis Time...: 20:04				
Zinc	91	(84 - 111)		MCAWW 200.7	02/02/07	JNMXE1C0
	91	(84 - 111)	0.77 (0-20)	MCAWW 200.7	02/02/07	JNMXE1C1
		Dilution Factor: 1				
		Analysis Time...: 22:10				

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 #...: D7A260184

Matrix.....: WATER

Date Sampled...: 01/30/07 10:15 Date Received...: 01/31/07

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: D7A310178-001 Prep Batch #...: 7032548

Boron

4.7	1.00	5.52	mg/L				MCAWW 200.7	02/02/07	JNMXE1EE
Qualifiers: NC,MSB									
4.7	1.00	5.53	mg/L				MCAWW 200.7	02/02/07	JNMXE1EF
Qualifiers: NC,MSB									
Dilution Factor: 1									
Analysis Time...: 22:10									

Cadmium

0.0013	0.100	0.102	mg/L	101			MCAWW 200.7	02/02/07	JNMXE1EH
0.0013	0.100	0.103	mg/L	101	0.49		MCAWW 200.7	02/02/07	JNMXE1EJ
Dilution Factor: 1									
Analysis Time...: 22:10									

Calcium

600	50.0	636	mg/L				MCAWW 200.7	02/02/07	JNMXE1D0
Qualifiers: NC,MSB									
600	50.0	631	mg/L				MCAWW 200.7	02/02/07	JNMXE1D1
Qualifiers: NC,MSB									
Dilution Factor: 1									
Analysis Time...: 22:10									

Chromium

ND	0.200	0.192	mg/L	96			MCAWW 200.7	02/02/07	JNMXE1CF
ND	0.200	0.193	mg/L	97	0.86		MCAWW 200.7	02/02/07	JNMXE1CG
Dilution Factor: 1									
Analysis Time...: 22:10									

Iron

ND	1.00	0.882	N mg/L	88			MCAWW 200.7	02/02/07	JNMXE1CK
ND	1.00	0.888	mg/L	89	0.66		MCAWW 200.7	02/02/07	JNMXE1CL
Dilution Factor: 1									
Analysis Time...: 22:10									

Magnesium

180	50.0	227	mg/L	91			MCAWW 200.7	02/02-02/05/07	JNMXE1CP
180	50.0	228	mg/L	93	0.42		MCAWW 200.7	02/02-02/05/07	JNMXE1CQ
Dilution Factor: 1									
Analysis Time...: 20:04									

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D7A260184

Matrix.....: WATER

Date Sampled...: 01/30/07 10:15 Date Received...: 01/31/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Potassium									
	17	50.0	78.8 N	mg/L	124		MCAWW 200.7	02/02-02/05/07	JNMXE1CM
	17	50.0	80.9 N	mg/L	129	2.6	MCAWW 200.7	02/02-02/05/07	JNMXE1CN
			Dilution Factor: 1						
			Analysis Time...: 20:04						
Silver									
	ND	0.0500	0.0551	mg/L	110		MCAWW 200.7	02/02/07	JNMXE1EL
	ND	0.0500	0.0565	mg/L	113	2.5	MCAWW 200.7	02/02/07	JNMXE1EM
			Dilution Factor: 1						
			Analysis Time...: 22:10						
Sodium									
	2000	50.0	1990	mg/L			MCAWW 200.7	02/02-02/05/07	JNMXE1C2
			Qualifiers: NC,MSB						
	2000	50.0	2010	mg/L			MCAWW 200.7	02/02-02/05/07	JNMXE1C3
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
			Analysis Time...: 20:04						
Zinc									
	0.0050	0.500	0.458	mg/L	91		MCAWW 200.7	02/02/07	JNMXE1C0
	0.0050	0.500	0.462	mg/L	91	0.77	MCAWW 200.7	02/02/07	JNMXE1C1
			Dilution Factor: 1						
			Analysis Time...: 22:10						

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.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: D7A260184

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate, as CaCO3	ND	Work Order #: JNKRE1AA 5.0	mg/L	MB Lot-Sample #: D7A300000-109 MCAWW 310.1	01/26/07	7030109
		Dilution Factor: 1 Analysis Time...: 13:00				
Bromide	ND	Work Order #: JNH0V1AA 0.20	mg/L	MB Lot-Sample #: D7A270000-067 MCAWW 300.0A	01/26/07	7027067
		Dilution Factor: 1 Analysis Time...: 13:57				
Carbonate, as CaCO3	ND	Work Order #: JNKR01AA 5.0	mg/L	MB Lot-Sample #: D7A300000-110 MCAWW 310.1	01/26/07	7030110
		Dilution Factor: 1 Analysis Time...: 13:00				
Chloride	ND	Work Order #: JNHX71AA 3.0	mg/L	MB Lot-Sample #: D7A270000-068 MCAWW 300.0A	01/26/07	7027068
		Dilution Factor: 1 Analysis Time...: 13:57				
Fluoride	ND	Work Order #: JNHX51AA 0.50	mg/L	MB Lot-Sample #: D7A270000-069 MCAWW 300.0A	01/26/07	7027069
		Dilution Factor: 1 Analysis Time...: 13:57				
Hydroxide, as CaCO3	ND	Work Order #: JNKTA1AA 5.0	mg/L	MB Lot-Sample #: D7A300000-111 MCAWW 310.1	01/26/07	7030111
		Dilution Factor: 1 Analysis Time...: 13:00				
Nitrate	ND	Work Order #: JNH0X1AA 0.50	mg/L	MB Lot-Sample #: D7A270000-066 MCAWW 300.0A	01/26/07	7027066
		Dilution Factor: 1 Analysis Time...: 13:57				
Nitrite	ND	Work Order #: JNH0C1AA 0.50	mg/L	MB Lot-Sample #: D7A270000-064 MCAWW 300.0A	01/26/07	7027064
		Dilution Factor: 1 Analysis Time...: 13:57				
Sulfate	ND	Work Order #: JNH011AA 5.0	mg/L	MB Lot-Sample #: D7A270000-065 MCAWW 300.0A	01/26/07	7027065
		Dilution Factor: 1 Analysis Time...: 13:57				

(Continued on next page)

METHOD BLANK REPORT

General Chemistry

Client Lot #....: D7A260184

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Alkalinity	ND	Work Order #: JNKM91AA 5.0	mg/L	MB Lot-Sample #: D7A300000-106 MCAWW 310.1	01/26/07	7030106
		Dilution Factor: 1				
		Analysis Time...: 13:00				
Total Dissolved Solids	ND	Work Order #: JNL9K1AA 10	mg/L	MB Lot-Sample #: D7A290000-432 MCAWW 160.1	01/29/07	7029432
		Dilution Factor: 1				
		Analysis Time...: 14:30				
Total Sulfide	ND	Work Order #: JNLQ61AA 0.050	mg/L	MB Lot-Sample #: D7A300000-429 MCAWW 376.2	01/30/07	7030429
		Dilution Factor: 1				
		Analysis Time...: 16:00				
Total Suspended Solids	ND	Work Order #: JNKV21AA 4.0	mg/L	MB Lot-Sample #: D7A290000-428 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.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D7A260184

Matrix.....: WATER

	PERCENT	RECOVERY	RPD	PREPARATION-	PREP
PARAMETER	RECOVERY	LIMITS	LIMITS	ANALYSIS DATE	BATCH #
pH		WO#:JNHAA1AA-LCS/JNHAA1AC-LCSD LCS Lot-Sample#: D7A260000-411			
	100	(97 - 102)		MCAWW 150.1	01/26/07 7026411
	100	(97 - 102) 0.14 (0-5.0)	MCAWW 150.1	01/26/07	7026411
		Dilution Factor: 1		Analysis Time...: 14:44	
Bromide		WO#:JNH0V1AC-LCS/JNH0V1AD-LCSD LCS Lot-Sample#: D7A270000-067			
	97	(90 - 110)		MCAWW 300.0A	01/26/07 7027067
	98	(90 - 110) 0.08 (0-10)	MCAWW 300.0A	01/26/07	7027067
		Dilution Factor: 1		Analysis Time...: 13:25	
Chloride		WO#:JNHX71AC-LCS/JNHX71AD-LCSD LCS Lot-Sample#: D7A270000-068			
	99	(90 - 110)		MCAWW 300.0A	01/26/07 7027068
	99	(90 - 110) 0.18 (0-10)	MCAWW 300.0A	01/26/07	7027068
		Dilution Factor: 1		Analysis Time...: 13:25	
Fluoride		WO#:JNHX51AC-LCS/JNHX51AD-LCSD LCS Lot-Sample#: D7A270000-069			
	103	(90 - 110)		MCAWW 300.0A	01/26/07 7027069
	103	(90 - 110) 0.03 (0-10)	MCAWW 300.0A	01/26/07	7027069
		Dilution Factor: 1		Analysis Time...: 13:25	
Nitrate		WO#:JNH0X1AC-LCS/JNH0X1AD-LCSD LCS Lot-Sample#: D7A270000-066			
	99	(90 - 110)		MCAWW 300.0A	01/26/07 7027066
	99	(90 - 110) 0.11 (0-10)	MCAWW 300.0A	01/26/07	7027066
		Dilution Factor: 1		Analysis Time...: 13:25	
Nitrite		WO#:JNH0C1AC-LCS/JNH0C1AD-LCSD LCS Lot-Sample#: D7A270000-064			
	101	(90 - 110)		MCAWW 300.0A	01/26/07 7027064
	101	(90 - 110) 0.02 (0-10)	MCAWW 300.0A	01/26/07	7027064
		Dilution Factor: 1		Analysis Time...: 13:25	
Sulfate		WO#:JNH011AC-LCS/JNH011AD-LCSD LCS Lot-Sample#: D7A270000-065			
	100	(90 - 110)		MCAWW 300.0A	01/26/07 7027065
	100	(90 - 110) 0.19 (0-10)	MCAWW 300.0A	01/26/07	7027065
		Dilution Factor: 1		Analysis Time...: 13:25	
Total Alkalinity		WO#:JNKM91AC-LCS/JNKM91AD-LCSD LCS Lot-Sample#: D7A300000-106			
	98	(90 - 110)		MCAWW 310.1	01/26/07 7030106
	99	(90 - 110) 1.5 (0-10)	MCAWW 310.1	01/26/07	7030106
		Dilution Factor: 1		Analysis Time...: 13:00	

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D7A260184

Matrix.....: WATER

	PERCENT	RECOVERY	RPD	PREPARATION-	PREP
PARAMETER	RECOVERY	LIMITS	RPD	ANALYSIS DATE	BATCH #
Total Dissolved		WO#:JNL9K1AC-LCS/JNL9K1AD-LCSD LCS Lot-Sample#: D7A290000-432			
Solids					
	100	(86 - 106)		MCAWW 160.1	01/29/07 7029432
	105	(86 - 106) 4.3 (0-20)		MCAWW 160.1	01/29/07 7029432
		Dilution Factor: 1		Analysis Time..: 14:30	
Total Sulfide		WO#:JNLQ61AC-LCS/JNLQ61AD-LCSD LCS Lot-Sample#: D7A300000-429			
	107	(83 - 112)		MCAWW 376.2	01/30/07 7030429
	101	(83 - 112) 5.0 (0-10)		MCAWW 376.2	01/30/07 7030429
		Dilution Factor: 1		Analysis Time..: 16:00	
Total Suspended		WO#:JNKV21AC-LCS/JNKV21AD-LCSD LCS Lot-Sample#: D7A290000-428			
Solids					
	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.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D7A260184

Matrix.....: WATER

	SPIKE	MEASURED	PERCNT	PREPARATION-	PREP		
PARAMETER	AMOUNT	AMOUNT	UNITS	RECVRY RPD	METHOD	ANALYSIS DATE	BATCH #
pH			WO#:JNHAA1AA-LCS/JNHAA1AC-LCSD LCS Lot-Sample#: D7A260000-411				
	7.00	7.02	No Units	100	MCAWW 150.1	01/26/07	7026411
	7.00	7.03	No Units	100	0.14 MCAWW 150.1	01/26/07	7026411
			Dilution Factor: 1		Analysis Time...: 14:44		
Bromide			WO#:JNH0V1AC-LCS/JNH0V1AD-LCSD LCS Lot-Sample#: D7A270000-067				
	5.00	4.87	mg/L	97	MCAWW 300.0A	01/26/07	7027067
	5.00	4.88	mg/L	98	0.08 MCAWW 300.0A	01/26/07	7027067
			Dilution Factor: 1		Analysis Time...: 13:25		
Chloride			WO#:JNHX71AC-LCS/JNHX71AD-LCSD LCS Lot-Sample#: D7A270000-068				
	25.0	24.8	mg/L	99	MCAWW 300.0A	01/26/07	7027068
	25.0	24.9	mg/L	99	0.18 MCAWW 300.0A	01/26/07	7027068
			Dilution Factor: 1		Analysis Time...: 13:25		
Fluoride			WO#:JNHX51AC-LCS/JNHX51AD-LCSD LCS Lot-Sample#: D7A270000-069				
	5.00	5.13	mg/L	103	MCAWW 300.0A	01/26/07	7027069
	5.00	5.13	mg/L	103	0.03 MCAWW 300.0A	01/26/07	7027069
			Dilution Factor: 1		Analysis Time...: 13:25		
Nitrate			WO#:JNH0X1AC-LCS/JNH0X1AD-LCSD LCS Lot-Sample#: D7A270000-066				
	5.00	4.94	mg/L	99	MCAWW 300.0A	01/26/07	7027066
	5.00	4.95	mg/L	99	0.11 MCAWW 300.0A	01/26/07	7027066
			Dilution Factor: 1		Analysis Time...: 13:25		
Nitrite			WO#:JNH0C1AC-LCS/JNH0C1AD-LCSD LCS Lot-Sample#: D7A270000-064				
	5.00	5.07	mg/L	101	MCAWW 300.0A	01/26/07	7027064
	5.00	5.07	mg/L	101	0.02 MCAWW 300.0A	01/26/07	7027064
			Dilution Factor: 1		Analysis Time...: 13:25		
Sulfate			WO#:JNH011AC-LCS/JNH011AD-LCSD LCS Lot-Sample#: D7A270000-065				
	25.0	25.0	mg/L	100	MCAWW 300.0A	01/26/07	7027065
	25.0	24.9	mg/L	100	0.19 MCAWW 300.0A	01/26/07	7027065
			Dilution Factor: 1		Analysis Time...: 13:25		
Total Alkalinity			WO#:JNKM91AC-LCS/JNKM91AD-LCSD LCS Lot-Sample#: D7A300000-106				
	200	195	mg/L	98	MCAWW 310.1	01/26/07	7030106
	200	198	mg/L	99	1.5 MCAWW 310.1	01/26/07	7030106
			Dilution Factor: 1		Analysis Time...: 13:00		

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General Chemistry

Matrix.....: WATER

NOTE (S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D7A260184

Matrix.....: WATER

Date Sampled...: 01/26/07 08:30 Date Received...: 01/26/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide				WO#: JNFVH1CK-MS/JNFVH1CL-MSD MS Lot-Sample #: D7A260184-001		
	98	(80 - 120)		MCAWW 300.0A	01/26/07	7027067
	102	(80 - 120)	3.4 (0-20)	MCAWW 300.0A	01/26/07	7027067
				Dilution Factor: 1		
				Analysis Time...: 14:28		
Bromide				WO#: JNGL31AQ-MS/JNGL31AR-MSD MS Lot-Sample #: D7A260297-002		
	99	(85 - 115)		MCAWW 300.0A	01/26/07	7027074
	100	(85 - 115)	1.5 (0-20)	MCAWW 300.0A	01/26/07	7027074
				Dilution Factor: 1		
				Analysis Time...: 22:07		
Chloride				WO#: JNFVH1CF-MS/JNFVH1CG-MSD MS Lot-Sample #: D7A260184-001		
	101	(80 - 120)		MCAWW 300.0A	01/26/07	7027068
	105	(80 - 120)	2.6 (0-20)	MCAWW 300.0A	01/26/07	7027068
				Dilution Factor: 1		
				Analysis Time...: 14:28		
Chloride				WO#: JNGL31AJ-MS/JNGL31AK-MSD MS Lot-Sample #: D7A260297-002		
	97	(85 - 115)		MCAWW 300.0A	01/26/07	7027070
	99	(85 - 115)	0.91 (0-20)	MCAWW 300.0A	01/26/07	7027070
				Dilution Factor: 1		
				Analysis Time...: 22:07		
Fluoride				WO#: JNFVH1CD-MS/JNFVH1CE-MSD MS Lot-Sample #: D7A260184-001		
	97	(80 - 120)		MCAWW 300.0A	01/26/07	7027069
	100	(80 - 120)	2.9 (0-20)	MCAWW 300.0A	01/26/07	7027069
				Dilution Factor: 1		
				Analysis Time...: 14:28		
Nitrate				WO#: JNFVH1CM-MS/JNFVH1CN-MSD MS Lot-Sample #: D7A260184-001		
	101	(80 - 120)		MCAWW 300.0A	01/26/07	7027066
	104	(80 - 120)	3.3 (0-20)	MCAWW 300.0A	01/26/07	7027066
				Dilution Factor: 1		
				Analysis Time...: 14:28		
Nitrate				WO#: JNGL31AU-MS/JNGL31AV-MSD MS Lot-Sample #: D7A260297-002		
	101	(85 - 115)		MCAWW 300.0A	01/26/07	7027071
	102	(85 - 115)	1.3 (0-20)	MCAWW 300.0A	01/26/07	7027071
				Dilution Factor: 1		
				Analysis Time...: 22:07		

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MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D7A260184

Matrix.....: WATER

Date Sampled...: 01/26/07 08:30 Date Received...: 01/26/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrite			WO#: JNFVH1CH-MS/JNFVH1CJ-MSD MS Lot-Sample #: D7A260184-001				
	107	(80 - 120)			MCAWW 300.0A	01/26/07	7027064
	111	(80 - 120)	3.4	(0-20)	MCAWW 300.0A	01/26/07	7027064
			Dilution Factor: 1 Analysis Time...: 14:28				
Nitrite			WO#: JNGL31AM-MS/JNGL31AN-MSD MS Lot-Sample #: D7A260297-002				
	103	(85 - 115)			MCAWW 300.0A	01/26/07	7027072
	105	(85 - 115)	1.4	(0-20)	MCAWW 300.0A	01/26/07	7027072
			Dilution Factor: 1 Analysis Time...: 22:07				
Sulfate			WO#: JNFVH1CP-MS/JNFVH1CQ-MSD MS Lot-Sample #: D7A260184-001				
	98	(80 - 120)			MCAWW 300.0A	01/26/07	7027065
	101	(80 - 120)	2.4	(0-20)	MCAWW 300.0A	01/26/07	7027065
			Dilution Factor: 1 Analysis Time...: 14:28				
Sulfate			WO#: JNGL31AX-MS/JNGL31A0-MSD MS Lot-Sample #: D7A260297-002				
	98	(85 - 115)			MCAWW 300.0A	01/26/07	7027073
	100	(85 - 115)	1.8	(0-20)	MCAWW 300.0A	01/26/07	7027073
			Dilution Factor: 1 Analysis Time...: 22:07				
Total Sulfide			WO#: JNFVH1CR-MS/JNFVH1CT-MSD MS Lot-Sample #: D7A260184-001				
	111	(20 - 156)			MCAWW 376.2	01/30/07	7030429
	113	(20 - 156)	1.5	(0-30)	MCAWW 376.2	01/30/07	7030429
			Dilution Factor: 1 Analysis Time...: 16:00				

NOTE(S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D7A260184

Matrix.....: WATER

Date Sampled...: 01/26/07 08:30 Date Received...: 01/26/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide									
WO#: JNFVH1CK-MS/JNFVH1CL-MSD MS Lot-Sample #: D7A260184-001									
	0.15	5.00	5.07	mg/L	98		MCAWW 300.0A	01/26/07	7027067
	0.15	5.00	5.25	mg/L	102	3.4	MCAWW 300.0A	01/26/07	7027067
Dilution Factor: 1									
Analysis Time...: 14:28									
Bromide									
WO#: JNGL31AQ-MS/JNGL31AR-MSD MS Lot-Sample #: D7A260297-002									
	ND	5.00	5.04	mg/L	99		MCAWW 300.0A	01/26/07	7027074
	ND	5.00	5.12	mg/L	100	1.5	MCAWW 300.0A	01/26/07	7027074
Dilution Factor: 1									
Analysis Time...: 22:07									
Chloride									
WO#: JNFVH1CF-MS/JNFVH1CG-MSD MS Lot-Sample #: D7A260184-001									
	9.9	25.0	35.3	mg/L	101		MCAWW 300.0A	01/26/07	7027068
	9.9	25.0	36.2	mg/L	105	2.6	MCAWW 300.0A	01/26/07	7027068
Dilution Factor: 1									
Analysis Time...: 14:28									
Chloride									
WO#: JNGL31AJ-MS/JNGL31AK-MSD MS Lot-Sample #: D7A260297-002									
	15	25.0	39.8	mg/L	97		MCAWW 300.0A	01/26/07	7027070
	15	25.0	40.1	mg/L	99	0.91	MCAWW 300.0A	01/26/07	7027070
Dilution Factor: 1									
Analysis Time...: 22:07									
Fluoride									
WO#: JNFVH1CD-MS/JNFVH1CE-MSD MS Lot-Sample #: D7A260184-001									
	0.96	5.00	5.80	mg/L	97		MCAWW 300.0A	01/26/07	7027069
	0.96	5.00	5.97	mg/L	100	2.9	MCAWW 300.0A	01/26/07	7027069
Dilution Factor: 1									
Analysis Time...: 14:28									
Nitrate									
WO#: JNFVH1CM-MS/JNFVH1CN-MSD MS Lot-Sample #: D7A260184-001									
	ND	5.00	5.04	mg/L	101		MCAWW 300.0A	01/26/07	7027066
	ND	5.00	5.21	mg/L	104	3.3	MCAWW 300.0A	01/26/07	7027066
Dilution Factor: 1									
Analysis Time...: 14:28									
Nitrate									
WO#: JNGL31AU-MS/JNGL31AV-MSD MS Lot-Sample #: D7A260297-002									
	0.052	5.00	5.09	mg/L	101		MCAWW 300.0A	01/26/07	7027071
	0.052	5.00	5.16	mg/L	102	1.3	MCAWW 300.0A	01/26/07	7027071
Dilution Factor: 1									
Analysis Time...: 22:07									

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MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D7A260184

Matrix.....: WATER

Date Sampled...: 01/26/07 08:30 Date Received...: 01/26/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
WO#: JNFVH1CH-MS/JNFVH1CJ-MSD MS Lot-Sample #: D7A260184-001									
Nitrite	ND	5.00	5.36	mg/L	107		MCAWW 300.0A	01/26/07	7027064
	ND	5.00	5.54	mg/L	111	3.4	MCAWW 300.0A	01/26/07	7027064
Dilution Factor: 1									
Analysis Time...: 14:28									
WO#: JNGL31AM-MS/JNGL31AN-MSD MS Lot-Sample #: D7A260297-002									
Nitrite	ND	5.00	5.15	mg/L	103		MCAWW 300.0A	01/26/07	7027072
	ND	5.00	5.23	mg/L	105	1.4	MCAWW 300.0A	01/26/07	7027072
Dilution Factor: 1									
Analysis Time...: 22:07									
WO#: JNFVH1CP-MS/JNFVH1CQ-MSD MS Lot-Sample #: D7A260184-001									
Sulfate	7.1	25.0	31.6	mg/L	98		MCAWW 300.0A	01/26/07	7027065
	7.1	25.0	32.4	mg/L	101	2.4	MCAWW 300.0A	01/26/07	7027065
Dilution Factor: 1									
Analysis Time...: 14:28									
WO#: JNGL31AX-MS/JNGL31A0-MSD MS Lot-Sample #: D7A260297-002									
Sulfate	1.0	25.0	25.5	mg/L	98		MCAWW 300.0A	01/26/07	7027073
	1.0	25.0	26.0	mg/L	100	1.8	MCAWW 300.0A	01/26/07	7027073
Dilution Factor: 1									
Analysis Time...: 22:07									
WO#: JNFVH1CR-MS/JNFVH1CT-MSD MS Lot-Sample #: D7A260184-001									
Total Sulfide	0.19	0.538	0.788	mg/L	111		MCAWW 376.2	01/30/07	7030429
	0.19	0.538	0.800	mg/L	113	1.5	MCAWW 376.2	01/30/07	7030429
Dilution Factor: 1									
Analysis Time...: 16:00									

NOTE(S):

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

General Chemistry

Date Sampled...: 01/25/07 10:36 **Date Received...:** 01/26/07

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.4	8.4	No Units	0.0	(0-5.0)	SD Lot-Sample #: D7A260176-001 MCAWW 150.1	01/26/07	7026411
			Dilution Factor: 1			Analysis Time.: 14:47		

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			

General Chemistry

Matrix.....: WATER

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #:	D7A260297-002	
15	15	mg/L	0.12	(0-20)	MCAWW 300.0A	01/26/07	7027070	
		Dilution Factor: 1			Analysis Time...: 21:35			
Nitrite						SD Lot-Sample #:	D7A260297-002	
ND	ND	mg/L	0	(0-20)	MCAWW 300.0A	01/26/07	7027072	
		Dilution Factor: 1			Analysis Time...: 21:35			
Bromide						SD Lot-Sample #:	D7A260297-002	
ND	ND	mg/L	0.20	(0-20)	MCAWW 300.0A	01/26/07	7027074	
		Dilution Factor: 1			Analysis Time...: 21:35			
Nitrate						SD Lot-Sample #:	D7A260297-002	
0.052 F	0.051 F	mg/L	1.7	(0-20)	MCAWW 300.0A	01/26/07	7027071	
		Dilution Factor: 1			Analysis Time...: 21:35			
Sulfate						SD Lot-Sample #:	D7A260297-002	
1.0	1.0	mg/L	0.38	(0-20)	MCAWW 300.0A	01/26/07	7027073	
		Dilution Factor: 1			Analysis Time...: 21:35			

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

F The analyte was identified but the value was below the RL and above the MDL.

General Chemistry

Matrix.....: WATER

Date Received..: 01/25/07

Analysis Time...: 14:30

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D7A260184

Work Order #...: JNEH4-SMP

Matrix.....: WATER

JNEH4-DUP

Date Sampled...: 01/24/07 08:59

Date Received...: 01/25/07

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Alkalinity	150	150	mg/L	0.93	(0-10)	SD Lot-Sample #: D7A250331-002 MCAWW 310.1	01/26/07	7030106
				Dilution Factor: 1	Analysis Time...: 13:00			

530C
10.36.07
121

ST

STL Denver
4955 Yarrow Street
Arvada, CO 80002

Chain of Custody Number

349632

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Special Instructions

Conditions of Receipt

1

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assessed if samples are retained

Date / Time

1/27/07 0845

Date	Time
1/2/21	10:10

Date _____ Time _____

10

[illegible]

1

STL Denver
Sample Receiving Checklist

Lot #: D7A2100184 Date/Time Received: 1/26/07 0845

Company Name & Sampling Site: Norwest / Applied Hydrology

PM to Complete This Section: Yes

Residual chlorine check required: ☐

No ☒

Quarantined: ☐

Yes ☐

No ☒

Quote #:

73407

Special Instructions:

for VOC log as RSK-125 Diss gases

Log all tests in quote

*may have to filter/presene Diss. metals

Time Zone:

• EDT/EST • CDT/CST • MDT/MTT • PDT/PST • OTHER

Unpacking Checks:

Cooler #(s): 1

Temperatures (°C): 5.3

N/A Yes No

Initials

PS

- ☐ ☒ ☐ 1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR.
- ☒ ☐ 2. Chain of custody present? If no, document on CUR.
- ☐ ☒ 3. Bottles broken and/or are leaking? If yes, document on CUR.
- ☐ ☒ 4. Multiphasic samples obvious? If yes, document on CUR.
- ☒ ☐ 5. Proper container & preservatives used? (ref. Attachment D of SOP# DEN-QA-0003) If no, document on CUR.
- ☐ ☒ 6. pH of all samples checked and meet requirements? If no, document on CUR.
- ☒ ☐ 7. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DEN-QA-0003) If no, document on CUR, and contact PM before proceeding.
- ☒ ☐ 8. Did chain of custody agree with labels ID and samples received? If no, document on CUR.
- ☐ ☒ 9. Were VOA samples without headspace? If no, document on CUR.
- ☐ ☒ 10. Were VOA vials preserved? Preservative ☒ HCl ☐ 4±2°C ☐ Sodium Thiosulfate ☐ Ascorbic Acid
- ☐ ☒ 11. Did samples require preservation with sodium thiosulfate?
- ☒ ☐ 12. If yes to #11, did the samples contain residual chlorine? If yes, document on CUR.
- ☒ ☐ 13. Sediment present in dissolved/filtered bottles? If yes, document on CUR.
- ☒ ☐ 14. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- ☐ ☒ 15. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.
- ☒ ☐ 16. Are analyses with short holding times requested?
- ☐ ☒ 17. Was a quick Turn Around (TAT) requested?

STL Denver
Sample Receiving Checklist

Lot # D7A260184

Login Checks:

N/A Yes No

Initials

AB

- ☒ ☐ 18. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DEN-QA-0003) If no, document on CUR, and contact PM before proceeding.
- ☒ ☐ 19. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- ☒ ☐ 20. Did the chain of custody includes "received by" and "relinquished" by signatures, dates, and times?
- ☐ ☒ 21. Were special log in instructions read and followed?
- ☒ ☐ 22. Were AFCEE metals logged for refrigerated storage?
- ☒ ☐ 23. Were tests logged checked against the COC? Which samples were confirmed? 1
- ☒ ☐ 24. Was a Rush form completed for quick TAT?
- ☐ ☒ 25. Was a Short Hold form completed for any short holds?
- ☐ ☒ 26. Is "Strict ICOC" required?
- ☐ ☒ 27. Were special archiving instructions indicated in the General Comments? If so, what were they?

Labeling and Storage Checks:

Initials

PS

- ☒ ☐ 28. Was the subcontract COC signed and sent with samples to bottle prep?
- ☒ ☐ 29. Were sample labels double-checked by a second person?
- ☒ ☐ 30. Were sample bottles and COC double checked for dissolved/filtered metals by a second person?
- ☒ ☐ 31. Did the sample ID, Date, and Time from label match what was logged?
- ☒ ☐ 32. Were stickers for special archiving instructions affixed to each box and to the ICOC? See #27
- ☒ ☐ 33. Were AFCEE metals stored refrigerated?
- ☒ ☐ 34. Were "Strict ICOC" copies given to satellite storage areas?

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).