



**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.**



**Donna Rydberg  
Project Manager**

**February 9, 2007**

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#### ***Standard Deliverables***

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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<br>LIMIT | UNITS    | ANALYTICAL<br>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<br>METHOD | PREPARATION<br>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<br/>METHOD</u> | <u>ANALYST</u>       | <u>ANALYST<br/>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<br/>DATE</u> | <u>SAMP<br/>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<br>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><br><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><br><u>RECOVERY</u> | <u>RECOVERY</u><br><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<br/>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>           | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>WORK<br/>ORDER #</u> |
|---------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| <b>Prep Batch #...: 7030460</b> |               |                            |              |                         |                                       |                         |
| 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                     |                         |
| <b>Prep Batch #...: 7032548</b> |               |                            |              |                         |                                       |                         |
| Boron                           | 0.035 B       | 0.10                       | mg/L         | MCAWW 200.7             | 02/02/07                              | JNFBVH1AU               |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 21:47 | MDL.....: 0.0059                      |                         |
| 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.....: 0.034                       |                         |
| Chromium                        | ND            | 0.010                      | mg/L         | MCAWW 200.7             | 02/02/07                              | JNFBVH1AX               |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 21:47 | MDL.....: 0.0026                      |                         |
| Iron                            | ND            | 0.10                       | mg/L         | MCAWW 200.7             | 02/02/07                              | JNFBVH1A0               |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 21:47 | MDL.....: 0.022                       |                         |
| Magnesium                       | 5.9           | 0.20                       | mg/L         | MCAWW 200.7             | 02/02-02/05/07                        | JNFBVH1A1               |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 20:16 | MDL.....: 0.043                       |                         |
| Potassium                       | 3.4           | 3.0                        | mg/L         | MCAWW 200.7             | 02/02-02/05/07                        | JNFBVH1A2               |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 20:16 | MDL.....: 0.24                        |                         |

(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><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>           | <u>PREPARATION-</u><br><u>ANALYSIS DATE</u> | <u>WORK</u><br><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-<br>ANALYSIS DATE | PREP<br>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 <sub>3</sub> | 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 <sub>3</sub>   | 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 <sub>3</sub>   | 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-<br/>ANALYSIS DATE</u> | <u>PREP<br/>BATCH #</u> |
|---------------------------|---------------|--------------------|--------------|-----------------------|---------------------------------------|-------------------------|
| Total Suspended<br>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<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>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

**Work Order #...** JNNP91AA

**Matrix.....:** WATER

**Prep Date.....:** 01/30/07

**Analysis Time...:** 10:17

**Analysis Date...:** 01/30/07

**Prep Batch #...** 7031461

**Dilution Factor:** 1

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> |              |  | <u>METHOD</u> |
|------------------|---------------|------------------|--------------|--|---------------|
|                  |               | <u>LIMIT</u>     | <u>UNITS</u> |  |               |
| 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) | 8.4 | (0-20) | RSK SOP-175 |
|           | 118      | (75 - 125) |     |        | RSK SOP-175 |
| Ethane    | 108      | (75 - 125) | 6.0 | (0-20) | RSK SOP-175 |
|           | 114      | (75 - 125) |     |        | RSK SOP-175 |
| Ethene    | 110      | (75 - 125) | 7.3 | (0-20) | RSK SOP-175 |
|           | 118      | (75 - 125) |     |        | RSK SOP-175 |
| Methane   | 107      | (75 - 125) | 5.9 | (0-20) | RSK SOP-175 |
|           | 113      | (75 - 125) |     |        | 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<br>AMOUNT | MEASURED<br>AMOUNT | UNITS       | PERCENT<br>RECOVERY | RPD        | METHOD             |
|------------------|-----------------|--------------------|-------------|---------------------|------------|--------------------|
| <b>Acetylene</b> | <b>118</b>      | <b>128</b>         | <b>ug/L</b> | <b>109</b>          |            | <b>RSK SOP-175</b> |
|                  | <b>118</b>      | <b>140</b>         | <b>ug/L</b> | <b>118</b>          | <b>8.4</b> | <b>RSK SOP-175</b> |
| <b>Ethane</b>    | <b>137</b>      | <b>147</b>         | <b>ug/L</b> | <b>108</b>          |            | <b>RSK SOP-175</b> |
|                  | <b>137</b>      | <b>156</b>         | <b>ug/L</b> | <b>114</b>          | <b>6.0</b> | <b>RSK SOP-175</b> |
| <b>Ethene</b>    | <b>127</b>      | <b>139</b>         | <b>ug/L</b> | <b>110</b>          |            | <b>RSK SOP-175</b> |
|                  | <b>127</b>      | <b>150</b>         | <b>ug/L</b> | <b>118</b>          | <b>7.3</b> | <b>RSK SOP-175</b> |
| <b>Methane</b>   | <b>73.0</b>     | <b>77.8</b>        | <b>ug/L</b> | <b>107</b>          |            | <b>RSK SOP-175</b> |
|                  | <b>73.0</b>     | <b>82.6</b>        | <b>ug/L</b> | <b>113</b>          | <b>5.9</b> | <b>RSK SOP-175</b> |

### 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

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

| <u>SURROGATE</u> | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>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<br/>AMOUNT</u> | <u>MEASURED<br/>AMOUNT</u> | <u>UNITS</u> | <u>PERCENT<br/>RECOVERY</u> | <u>METHOD</u> |
|-----------------------|-------------------------|----------------------------|--------------|-----------------------------|---------------|
| Diesel Range Organics | 2.00                    | 1.80                       | mg/L         | 90                          | SW846 8015B   |

  

| <u>SURROGATE</u> | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>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

| <u>PARAMETER</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> | <u>RPD</u> | <u>RPD<br/>LIMITS</u> | <u>METHOD</u> |
|-----------------------|-----------------------------|----------------------------|------------|-----------------------|---------------|
| Diesel Range Organics | 86                          | (50 - 115)                 |            |                       | SW846 8015B   |
|                       | 86                          | (50 - 115)                 | 1.4        | (0-31)                | SW846 8015B   |

| <u>SURROGATE</u> | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|------------------|-----------------------------|----------------------------|
| 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<br>AMOUNT | SPIKE<br>AMT | MEASRD<br>AMOUNT | UNITS | PERCNT<br>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<br>RECOVERY | RECOVERY<br>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

| REPORTING  |        |                         |       | PREPARATION- | WORK           |          |
|--|--------|-------------------------|-------|--------------|----------------|----------|
| PARAMETER  | RESULT | 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 |       |              |                |          |

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# METHOD BLANK REPORT

## DISSOLVED Metals

Client Lot #...: D7A260184

Matrix.....: WATER

| PARAMETER | RESULT | REPORTING<br>LIMIT      | UNITS | METHOD      | PREPARATION-<br>ANALYSIS DATE | WORK<br>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<br>RECOVERY | RECOVERY<br>LIMITS | METHOD      | PREPARATION-<br>ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|-------------|-------------------------------|--------------|
| <b>LCS Lot-Sample#:</b> D7A300000-460 <b>Prep Batch #...</b> : 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       |              |
| <b>LCS Lot-Sample#:</b> D7B010000-548 <b>Prep Batch #...</b> : 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       |              |

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**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**DISSOLVED Metals**

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

**Matrix.....:** WATER

| <u>PARAMETER</u> | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> | <u>METHOD</u> | <u>PREPARATION-<br/>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<br>AMOUNT | MEASURED<br>AMOUNT | UNITS              | PERCNT<br>RECVRY | METHOD                  | PREPARATION-<br>ANALYSIS DATE | WORK<br>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 |                               |                 |

(Continued on next page)

# LABORATORY CONTROL SAMPLE DATA REPORT

## DISSOLVED Metals

Client Lot #...: D7A260184

Matrix.....: WATER

| PARAMETER | SPIKE<br>AMOUNT | MEASURED<br>AMOUNT | UNITS | PERCNT<br>RECVRY   | METHOD                  | PREPARATION-<br>ANALYSIS DATE | WORK<br>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<br>RECOVERY | RECOVERY<br>LIMITS | RPD<br>LIMITS           | METHOD      | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|--|---------------------|--------------------|-------------------------|-------------|-------------------------------|-----------------|
| <b>MS Lot-Sample #: D7A260184-001 Prep Batch #...: 7030460</b> |                     |                    |                         |             |                               |                 |
| 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<br>AMT | MEASRD<br>AMOUNT | UNITS | PERCNT<br>RECVRY | RPD | METHOD | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|

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<br>RECOVERY | RECOVERY<br>LIMITS      | RPD<br>LIMITS | METHOD      | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|---|---------------------|-------------------------|---------------|-------------|-------------------------------|-----------------|
| <b>MS Lot-Sample #: D7A310178-001 Prep Batch #....: 7032548</b> |                     |                         |               |             |                               |                 |
| 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 |               |             |                               |                 |

(Continued on next page)



# 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<br>RECOVERY | RECOVERY<br>LIMITS      | RPD<br>LIMITS | METHOD      | PREPARATION-<br>ANALYSIS DATE | WORK<br>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<br>AMT | MEASRD<br>AMOUNT | UNITS  | PERCNT<br>RECVRY | RPD  | METHOD                  | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|--|--------|---------------------|------------------|--------|------------------|------|-------------------------|-------------------------------|-----------------|
| <b>MS Lot-Sample #: D7A310178-001 Prep Batch #...: 7032548</b> |        |                     |                  |        |                  |      |                         |                               |                 |
| <b>Boron</b>   |        |                     |                  |        |                  |      |                         |                               |                 |
|  | 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 |                               |                 |
| <b>Cadmium</b>   |        |                     |                  |        |                  |      |                         |                               |                 |
|  | 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 |                               |                 |
| <b>Calcium</b>   |        |                     |                  |        |                  |      |                         |                               |                 |
|  | 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 |                               |                 |
| <b>Chromium</b>  |        |                     |                  |        |                  |      |                         |                               |                 |
| 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 |                               |                 |
| <b>Iron</b>  |        |                     |                  |        |                  |      |                         |                               |                 |
| 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 |                               |                 |
| <b>Magnesium</b>   |        |                     |                  |        |                  |      |                         |                               |                 |
|  | 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 |                               |                 |

(Continued on next page)

# 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<br>LIMIT                            | UNITS | METHOD   | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|-----------------------------------|--------|---|-------|--|-------------------------------|-----------------|
| Bicarbonate, as CaCO <sub>3</sub> | ND     | Work Order #: JNKRE1AA<br>5.0                 | mg/L  | MB Lot-Sample #: D7A300000-109<br>MCAWW 310.1  | 01/26/07                      | 7030109         |
|                                   |        | Dilution Factor: 1<br>Analysis Time...: 13:00 |       |  |                               |                 |
| Bromide                           | ND     | Work Order #: JNH0V1AA<br>0.20                | mg/L  | MB Lot-Sample #: D7A270000-067<br>MCAWW 300.0A | 01/26/07                      | 7027067         |
|                                   |        | Dilution Factor: 1<br>Analysis Time...: 13:57 |       |  |                               |                 |
| Carbonate, as CaCO <sub>3</sub>   | ND     | Work Order #: JNKR01AA<br>5.0                 | mg/L  | MB Lot-Sample #: D7A300000-110<br>MCAWW 310.1  | 01/26/07                      | 7030110         |
|                                   |        | Dilution Factor: 1<br>Analysis Time...: 13:00 |       |  |                               |                 |
| Chloride                          | ND     | Work Order #: JNHX71AA<br>3.0                 | mg/L  | MB Lot-Sample #: D7A270000-068<br>MCAWW 300.0A | 01/26/07                      | 7027068         |
|                                   |        | Dilution Factor: 1<br>Analysis Time...: 13:57 |       |  |                               |                 |
| Fluoride                          | ND     | Work Order #: JNHX51AA<br>0.50                | mg/L  | MB Lot-Sample #: D7A270000-069<br>MCAWW 300.0A | 01/26/07                      | 7027069         |
|                                   |        | Dilution Factor: 1<br>Analysis Time...: 13:57 |       |  |                               |                 |
| Hydroxide, as CaCO <sub>3</sub>   | ND     | Work Order #: JNKTA1AA<br>5.0                 | mg/L  | MB Lot-Sample #: D7A300000-111<br>MCAWW 310.1  | 01/26/07                      | 7030111         |
|                                   |        | Dilution Factor: 1<br>Analysis Time...: 13:00 |       |  |                               |                 |
| Nitrate                           | ND     | Work Order #: JNH0X1AA<br>0.50                | mg/L  | MB Lot-Sample #: D7A270000-066<br>MCAWW 300.0A | 01/26/07                      | 7027066         |
|                                   |        | Dilution Factor: 1<br>Analysis Time...: 13:57 |       |  |                               |                 |
| Nitrite                           | ND     | Work Order #: JNH0C1AA<br>0.50                | mg/L  | MB Lot-Sample #: D7A270000-064<br>MCAWW 300.0A | 01/26/07                      | 7027064         |
|                                   |        | Dilution Factor: 1<br>Analysis Time...: 13:57 |       |  |                               |                 |
| Sulfate                           | ND     | Work Order #: JNH011AA<br>5.0                 | mg/L  | MB Lot-Sample #: D7A270000-065<br>MCAWW 300.0A | 01/26/07                      | 7027065         |
|                                   |        | Dilution Factor: 1<br>Analysis Time...: 13:57 |       |  |                               |                 |

(Continued on next page)

# METHOD BLANK REPORT

## General Chemistry

Client Lot #....: D7A260184

Matrix.....: WATER

| PARAMETER              | RESULT | REPORTING<br>LIMIT              | UNITS | METHOD  | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------------|--------|---------------------------------|-------|---|-------------------------------|-----------------|
| Total Alkalinity       | ND     | Work Order #: JNKM91AA<br>5.0   | mg/L  | MB Lot-Sample #: D7A300000-106<br>MCAWW 310.1 | 01/26/07                      | 7030106         |
|                        |        | Dilution Factor: 1              |       |   |                               |                 |
|                        |        | Analysis Time...: 13:00         |       |   |                               |                 |
| Total Dissolved Solids | ND     | Work Order #: JNL9K1AA<br>10    | mg/L  | MB Lot-Sample #: D7A290000-432<br>MCAWW 160.1 | 01/29/07                      | 7029432         |
|                        |        | Dilution Factor: 1              |       |   |                               |                 |
|                        |        | Analysis Time...: 14:30         |       |   |                               |                 |
| Total Sulfide          | ND     | Work Order #: JNLQ61AA<br>0.050 | mg/L  | MB Lot-Sample #: D7A300000-429<br>MCAWW 376.2 | 01/30/07                      | 7030429         |
|                        |        | Dilution Factor: 1              |       |   |                               |                 |
|                        |        | Analysis Time...: 16:00         |       |   |                               |                 |
| Total Suspended Solids | ND     | Work Order #: JNKV21AA<br>4.0   | mg/L  | MB Lot-Sample #: D7A290000-428<br>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 Solids |          | WO#:JNL9K1AC-LCS/JNL9K1AD-LCSD LCS Lot-Sample#: D7A290000-432 |     |                        |                  |
|                        | 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 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.

# 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 |               |         |

(Continued on next page)



## 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<br>RECOVERY | RECOVERY<br>LIMITS | RPD<br>LIMITS | METHOD   | PREPARATION-<br>ANALYSIS DATE | PREP<br>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                                      |                               |                 |

(Continued on next page)

# 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<br>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<br>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<br>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<br>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<br>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                                      |               |           |               |       |               |      |              |                            |              |

(Continued on next page)

# 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.

# SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #...: D7A260184

Work Order #...: JNFQX-SMP

Matrix.....: WATER

JNFQX-DUP

Date Sampled...: 01/25/07 10:36

Date Received...: 01/26/07

| PARAM                  | RESULT | DUPLICATE<br>RESULT | UNITS    | RPD                | RPD<br>LIMIT            | METHOD      | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------------|--------|---------------------|----------|--------------------|-------------------------|-------------|-------------------------------|-----------------|
| pH                     | 8.4    | 8.4                 | No Units | 0.0                | (0-5.0)                 | MCAWW 150.1 | 01/26/07                      | 7026411         |
|                        |        |                     |          | Dilution Factor: 1 | Analysis Time...: 14:47 |             |                               |                 |
| Total Suspended Solids | 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<br>RESULT | UNITS              | RPD  | RPD<br>LIMIT | METHOD                  | PREPARATION-<br>ANALYSIS DATE | PREP<br>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

| PARAM                  | RESULT | DUPLICATE<br>RESULT | UNITS              | RPD  | RPD<br>LIMIT | METHOD                 | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------------|--------|---------------------|--------------------|------|--------------|------------------------|-------------------------------|-----------------|
| Total Dissolved Solids |        |                     |                    |      |              | SD Lot-Sample #:       | D7A250245-014                 |                 |
|                        | 1200   | 1200                | mg/L               | 0.41 | (0-20)       | MCAWW 160.1            | 01/29/07                      | 7029432         |
|                        |        |                     | Dilution Factor: 1 |      |              | 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<br>RESULT | UNITS | RPD                | RPD<br>LIMIT            | METHOD  | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------|--------|---------------------|-------|--------------------|-------------------------|---|-------------------------------|-----------------|
| Total Alkalinity | 150    | 150                 | mg/L  | 0.93               | (0-10)                  | SD Lot-Sample #: D7A250331-002<br>MCAWW 310.1 | 01/26/07                      | 7030106         |
|                  |        |                     |       | Dilution Factor: 1 | Analysis Time...: 13:00 |   |                               |                 |

5.30c  
10.36.17  
12.1

ST

**STL Denver**  
4955 Yarrow Street  
Arvada, CO 80002

Chain of Custody Number

349632

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### Special Instructions

### Conditions of Receipt

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assessed if samples are retained

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Date / Time

1/27/07 0845

| Date    | Time  |
|---------|-------|
| 10/1/11 | 10:10 |

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|------|------|
| Date | Time |
|------|------|

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STL Denver  
Sample Receiving Checklist

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

Company Name & Sampling Site: Normest / 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).