

ANALYTICAL REPORT

Job Number: 280-15171-1

Job Description: Burkhardt #2800300876

For:
Colorado Oil&Gas Conservation Commision
1120 Lincoln St.
Suite 801
Denver, CO 80203
Attention: John Axelson



Approved for release.
Lori A Parsons
Project Manager I
5/4/2011 7:31 PM

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05/04/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Table of Contents

| | |
|--|----|
| Cover Title Page | 1 |
| Data Summaries | 3 |
| Report Narrative | 3 |
| Sample Summary | 4 |
| Executive Summary | 5 |
| Method Summary | 6 |
| Method / Analyst Summary | 7 |
| Sample Datasheets | 8 |
| QC Data Summary | 10 |
| Data Qualifiers | 16 |
| QC Association Summary | 17 |
| Lab Chronicle | 18 |
| Certification Summary | 20 |
| Shipping and Receiving Documents | 21 |
| Client Chain of Custody | 22 |
| Sample Receipt Checklist | 23 |

CASE NARRATIVE

Client: Colorado Oil&Gas Conservation Commision

Project: Burkhart #2800300876

Report Number: 280-15171-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/28/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.0 C.

TOTAL METALS

Samples BURKHART HOSE (280-15171-1) and BURKHART TAP (280-15171-2) were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared and analyzed on 05/02/2011.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED METALS

Samples BURKHART HOSE (280-15171-1) and BURKHART TAP (280-15171-2) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were prepared and analyzed on 05/02/2011.

No difficulties were encountered during the dissolved metals analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-15171-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|----------------------|-----------------------|
| 280-15171-1 | BURKHART HOSE | Water | 04/28/2011 0945 | 04/28/2011 1405 |
| 280-15171-2 | BURKHART TAP | Water | 04/28/2011 0950 | 04/28/2011 1405 |

EXECUTIVE SUMMARY - Detections

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-15171-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|--------------------------|----------------------|--------------------|--------------------|-------|--------|
| 280-15171-1 | BURKHART HOSE | | | | |
| Barium | | 34 | 10 | ug/L | 6010B |
| Calcium | | 74000 | 200 | ug/L | 6010B |
| Iron | | 970 | 100 | ug/L | 6010B |
| Magnesium | | 21000 | 200 | ug/L | 6010B |
| Manganese | | 53 | 10 | ug/L | 6010B |
| Potassium | | 5800 | 3000 | ug/L | 6010B |
| Sodium | | 66000 | 1000 | ug/L | 6010B |
| <i>Dissolved</i> | | | | | |
| Barium | | 32 | 10 | ug/L | 6010B |
| Calcium | | 69000 | 200 | ug/L | 6010B |
| Iron | | 750 | 100 | ug/L | 6010B |
| Magnesium | | 21000 | 200 | ug/L | 6010B |
| Manganese | | 54 | 10 | ug/L | 6010B |
| Potassium | | 5800 | 3000 | ug/L | 6010B |
| Sodium | | 63000 | 1000 | ug/L | 6010B |
| 280-15171-2 | BURKHART TAP | | | | |
| Barium | | 33 | 10 | ug/L | 6010B |
| Calcium | | 71000 | 200 | ug/L | 6010B |
| Iron | | 930 | 100 | ug/L | 6010B |
| Magnesium | | 20000 | 200 | ug/L | 6010B |
| Manganese | | 51 | 10 | ug/L | 6010B |
| Potassium | | 5700 | 3000 | ug/L | 6010B |
| Sodium | | 63000 | 1000 | ug/L | 6010B |
| <i>Dissolved</i> | | | | | |
| Barium | | 35 | 10 | ug/L | 6010B |
| Calcium | | 70000 | 200 | ug/L | 6010B |
| Iron | | 830 | 100 | ug/L | 6010B |
| Magnesium | | 21000 | 200 | ug/L | 6010B |
| Manganese | | 55 | 10 | ug/L | 6010B |
| Potassium | | 5900 | 3000 | ug/L | 6010B |
| Sodium | | 64000 | 1000 | ug/L | 6010B |

METHOD SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-15171-1

| Description | Lab Location | Method | Preparation Method |
|--|--------------|-------------|--------------------|
| Matrix: Water | | | |
| Metals (ICP) | TAL DEN | SW846 6010B | |
| Preparation, Total Recoverable or Dissolved Metals | TAL DEN | | SW846 3005A |
| Sample Filtration | TAL DEN | | FILTRATION |
| Metals (ICP) | TAL DEN | SW846 6010B | |
| Preparation, Total Metals | TAL DEN | | SW846 3010A |

Lab References:

TAL DEN = TestAmerica Denver

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-15171-1

| Method | Analyst | Analyst ID |
|-------------|----------------|------------|
| SW846 6010B | Bowen, Heidi E | HEB |
| SW846 6010B | Harre, John K | JKH |

Analytical Data

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-15171-1

Client Sample ID: BURKHART HOSE

Lab Sample ID: 280-15171-1

Date Sampled: 04/28/2011 0945

Client Matrix: Water

Date Received: 04/28/2011 1405

6010B Metals (ICP)

| | | | | | |
|------------------|-----------------|-----------------|-----------|------------------------|---------------|
| Analysis Method: | 6010B | Analysis Batch: | 280-65273 | Instrument ID: | MT_026 |
| Prep Method: | 3010A | Prep Batch: | 280-64783 | Lab File ID: | 26b050211.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/02/2011 2140 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/02/2011 0730 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|-----------|---------------|-----------|------|
| Arsenic | ND | | 15 |
| Barium | 34 | | 10 |
| Cadmium | ND | | 5.0 |
| Calcium | 74000 | | 200 |
| Chromium | ND | | 10 |
| Iron | 970 | | 100 |
| Lead | ND | | 9.0 |
| Magnesium | 21000 | | 200 |
| Manganese | 53 | | 10 |
| Potassium | 5800 | | 3000 |
| Selenium | ND | | 15 |
| Silver | ND | | 10 |
| Sodium | 66000 | | 1000 |

6010B Metals (ICP)-Dissolved

| | | | | | |
|------------------|-----------------|-----------------|-----------|------------------------|----------------|
| Analysis Method: | 6010B | Analysis Batch: | 280-65251 | Instrument ID: | MT_025 |
| Prep Method: | 3005A | Prep Batch: | 280-64784 | Lab File ID: | 25A4050211.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/02/2011 2044 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/02/2011 0730 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|-----------|---------------|-----------|------|
| Arsenic | ND | | 15 |
| Barium | 32 | | 10 |
| Cadmium | ND | | 5.0 |
| Calcium | 69000 | | 200 |
| Chromium | ND | | 10 |
| Iron | 750 | | 100 |
| Lead | ND | | 9.0 |
| Magnesium | 21000 | | 200 |
| Manganese | 54 | | 10 |
| Potassium | 5800 | | 3000 |
| Selenium | ND | | 15 |
| Silver | ND | | 10 |
| Sodium | 63000 | | 1000 |

Analytical Data

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-15171-1

Client Sample ID: BURKHART TAP

Lab Sample ID: 280-15171-2

Date Sampled: 04/28/2011 0950

Client Matrix: Water

Date Received: 04/28/2011 1405

6010B Metals (ICP)

| | | | | | |
|------------------|-----------------|-----------------|-----------|------------------------|---------------|
| Analysis Method: | 6010B | Analysis Batch: | 280-65273 | Instrument ID: | MT_026 |
| Prep Method: | 3010A | Prep Batch: | 280-64783 | Lab File ID: | 26b050211.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/02/2011 2149 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/02/2011 0730 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|-----------|---------------|-----------|------|
| Arsenic | ND | | 15 |
| Barium | 33 | | 10 |
| Cadmium | ND | | 5.0 |
| Calcium | 71000 | | 200 |
| Chromium | ND | | 10 |
| Iron | 930 | | 100 |
| Lead | ND | | 9.0 |
| Magnesium | 20000 | | 200 |
| Manganese | 51 | | 10 |
| Potassium | 5700 | | 3000 |
| Selenium | ND | | 15 |
| Silver | ND | | 10 |
| Sodium | 63000 | | 1000 |

6010B Metals (ICP)-Dissolved

| | | | | | |
|------------------|-----------------|-----------------|-----------|------------------------|----------------|
| Analysis Method: | 6010B | Analysis Batch: | 280-65251 | Instrument ID: | MT_025 |
| Prep Method: | 3005A | Prep Batch: | 280-64784 | Lab File ID: | 25A4050211.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/02/2011 2053 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/02/2011 0730 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|-----------|---------------|-----------|------|
| Arsenic | ND | | 15 |
| Barium | 35 | | 10 |
| Cadmium | ND | | 5.0 |
| Calcium | 70000 | | 200 |
| Chromium | ND | | 10 |
| Iron | 830 | | 100 |
| Lead | ND | | 9.0 |
| Magnesium | 21000 | | 200 |
| Manganese | 55 | | 10 |
| Potassium | 5900 | | 3000 |
| Selenium | ND | | 15 |
| Silver | ND | | 10 |
| Sodium | 64000 | | 1000 |

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-15171-1

Method Blank - Batch: 280-64783

Method: 6010B

Preparation: 3010A

Lab Sample ID: MB 280-64783/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/02/2011 2136
Prep Date: 05/02/2011 0730
Leach Date: N/A

Analysis Batch: 280-65273
Prep Batch: 280-64783
Leach Batch: N/A
Units: ug/L

Instrument ID: MT_026
Lab File ID: 26b050211.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL |
|-----------|--------|------|------|
| Arsenic | ND | | 15 |
| Barium | ND | | 10 |
| Cadmium | ND | | 5.0 |
| Calcium | ND | | 200 |
| Chromium | ND | | 10 |
| Iron | ND | | 100 |
| Lead | ND | | 9.0 |
| Magnesium | ND | | 200 |
| Manganese | ND | | 10 |
| Potassium | ND | | 3000 |
| Selenium | ND | | 15 |
| Silver | ND | | 10 |
| Sodium | ND | | 1000 |

Lab Control Sample - Batch: 280-64783

Method: 6010B

Preparation: 3010A

Lab Sample ID: LCS 280-64783/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/02/2011 2138
Prep Date: 05/02/2011 0730
Leach Date: N/A

Analysis Batch: 280-65273
Prep Batch: 280-64783
Leach Batch: N/A
Units: ug/L

Instrument ID: MT_026
Lab File ID: 26b050211.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|-----------|--------------|--------|--------|----------|------|
| Arsenic | 1000 | 986 | 99 | 88 - 110 | |
| Barium | 2000 | 2130 | 106 | 90 - 112 | |
| Cadmium | 100 | 107 | 107 | 88 - 111 | |
| Calcium | 50000 | 51300 | 103 | 90 - 111 | |
| Chromium | 200 | 191 | 96 | 90 - 113 | |
| Iron | 1000 | 1080 | 108 | 89 - 115 | |
| Lead | 500 | 493 | 99 | 89 - 110 | |
| Magnesium | 50000 | 49100 | 98 | 90 - 113 | |
| Manganese | 500 | 496 | 99 | 90 - 110 | |
| Potassium | 50000 | 50800 | 102 | 89 - 114 | |
| Selenium | 2000 | 1960 | 98 | 85 - 112 | |
| Silver | 50.0 | 48.5 | 97 | 86 - 115 | |
| Sodium | 50000 | 51100 | 102 | 90 - 115 | |

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-15171-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64783**

**Method: 6010B
Preparation: 3010A**

| | | | | | |
|-------------------|-----------------|-----------------|-----------|------------------------|---------------|
| MS Lab Sample ID: | 280-15171-1 | Analysis Batch: | 280-65273 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-64783 | Lab File ID: | 26b050211.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/02/2011 2145 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/02/2011 0730 | | | | |
| Leach Date: | N/A | | | | |

| | | | | | |
|--------------------|-----------------|-----------------|-----------|------------------------|---------------|
| MSD Lab Sample ID: | 280-15171-1 | Analysis Batch: | 280-65273 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-64783 | Lab File ID: | 26b050211.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/02/2011 2147 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/02/2011 0730 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|-----------|--------|-----|----------|-----|-----------|---------|----------|
| | MS | MSD | | | | | |
| Arsenic | 100 | 100 | 84 - 124 | 0 | 25 | | |
| Barium | 104 | 104 | 85 - 120 | 1 | 25 | | |
| Cadmium | 108 | 108 | 82 - 119 | 0 | 25 | | |
| Calcium | 96 | 94 | 48 - 153 | 1 | 25 | | |
| Chromium | 96 | 95 | 73 - 135 | 0 | 25 | | |
| Iron | 95 | 93 | 52 - 155 | 1 | 25 | | |
| Lead | 97 | 97 | 89 - 121 | 0 | 25 | | |
| Magnesium | 95 | 95 | 62 - 146 | 0 | 25 | | |
| Manganese | 97 | 97 | 79 - 121 | 0 | 25 | | |
| Potassium | 100 | 100 | 76 - 132 | 0 | 25 | | |
| Selenium | 98 | 98 | 71 - 140 | 0 | 25 | | |
| Silver | 98 | 98 | 75 - 141 | 0 | 25 | | |
| Sodium | 97 | 98 | 70 - 203 | 0 | 40 | | |

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-15171-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-64783

Method: 6010B
Preparation: 3010A

MS Lab Sample ID: 280-15171-1 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/02/2011 2145
Prep Date: 05/02/2011 0730
Leach Date: N/A

MSD Lab Sample ID: 280-15171-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/02/2011 2147
Prep Date: 05/02/2011 0730
Leach Date: N/A

| Analyte | Sample Result/Qual | MS Spike Amount | MSD Spike Amount | MS Result/Qual | MSD Result/Qual |
|-----------|--------------------|-----------------|------------------|----------------|-----------------|
| Arsenic | ND | 1000 | 1000 | 998 | 995 |
| Barium | 34 | 2000 | 2000 | 2120 | 2100 |
| Cadmium | ND | 100 | 100 | 108 | 108 |
| Calcium | 74000 | 50000 | 50000 | 122000 | 121000 |
| Chromium | ND | 200 | 200 | 191 | 190 |
| Iron | 970 | 1000 | 1000 | 1930 | 1910 |
| Lead | ND | 500 | 500 | 485 | 484 |
| Magnesium | 21000 | 50000 | 50000 | 68300 | 68100 |
| Manganese | 53 | 500 | 500 | 539 | 538 |
| Potassium | 5800 | 50000 | 50000 | 55900 | 55800 |
| Selenium | ND | 2000 | 2000 | 1960 | 1960 |
| Silver | ND | 50.0 | 50.0 | 49.0 | 49.0 |
| Sodium | 66000 | 50000 | 50000 | 114000 | 115000 |

Serial Dilution - Batch: 280-64783

Method: 6010B
Preparation: 3010A

Lab Sample ID: 280-15171-1
Client Matrix: Water
Dilution: 5.0
Analysis Date: 05/02/2011 2142
Prep Date: 05/02/2011 0730
Leach Date: N/A

Analysis Batch: 280-65273
Prep Batch: 280-64783
Leach Batch: N/A
Units: ug/L

Instrument ID: MT_026
Lab File ID: 26b050211.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Sample Result/Qual | Result | %Diff | Limit | Qual |
|-----------|--------------------|--------|-------|-------|------|
| Arsenic | ND | ND | NC | 10 | |
| Barium | 34 | ND | 3.0 | 10 | |
| Cadmium | ND | ND | NC | 10 | |
| Calcium | 74000 | 73000 | 1.5 | 10 | |
| Chromium | ND | ND | NC | 10 | |
| Iron | 970 | 1210 | NC | 10 | |
| Lead | ND | ND | NC | 10 | |
| Magnesium | 21000 | 21100 | 2.1 | 10 | |
| Manganese | 53 | 57.4 | 8.2 | 10 | |
| Potassium | 5800 | ND | NC | 10 | |
| Selenium | ND | ND | NC | 10 | |
| Silver | ND | ND | NC | 10 | |
| Sodium | 66000 | 67300 | 2.3 | 10 | |

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-15171-1

Method Blank - Batch: 280-64784

Lab Sample ID: MB 280-64715/1-B
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/02/2011 2040
 Prep Date: 05/02/2011 0730
 Leach Date: N/A

Analysis Batch: 280-65251
 Prep Batch: 280-64784
 Leach Batch: N/A
 Units: ug/L

Method: 6010B Preparation: 3005A Dissolved

Instrument ID: MT_025
 Lab File ID: 25A4050211.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL |
|-----------|--------|------|------|
| Arsenic | ND | | 15 |
| Barium | ND | | 10 |
| Cadmium | ND | | 5.0 |
| Calcium | ND | | 200 |
| Chromium | ND | | 10 |
| Iron | ND | | 100 |
| Lead | ND | | 9.0 |
| Magnesium | ND | | 200 |
| Manganese | ND | | 10 |
| Potassium | ND | | 3000 |
| Selenium | ND | | 15 |
| Silver | ND | | 10 |
| Sodium | ND | | 1000 |

Lab Control Sample - Batch: 280-64784

Lab Sample ID: LCS 280-64715/2-B
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/02/2011 2042
 Prep Date: 05/02/2011 0730
 Leach Date: N/A

Analysis Batch: 280-65251
 Prep Batch: 280-64784
 Leach Batch: N/A
 Units: ug/L

Method: 6010B Preparation: 3005A Dissolved

Instrument ID: MT_025
 Lab File ID: 25A4050211.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|-----------|--------------|--------|--------|----------|------|
| Arsenic | 1000 | 938 | 94 | 88 - 110 | |
| Barium | 2000 | 2090 | 105 | 90 - 112 | |
| Cadmium | 100 | 102 | 102 | 88 - 111 | |
| Calcium | 50000 | 49600 | 99 | 90 - 111 | |
| Chromium | 200 | 201 | 100 | 90 - 113 | |
| Iron | 1000 | 940 | 94 | 89 - 115 | |
| Lead | 500 | 503 | 101 | 89 - 110 | |
| Magnesium | 50000 | 50500 | 101 | 90 - 113 | |
| Manganese | 500 | 517 | 103 | 90 - 110 | |
| Potassium | 50000 | 52400 | 105 | 89 - 114 | |
| Selenium | 2000 | 2000 | 100 | 85 - 112 | |
| Silver | 50.0 | 53.8 | 108 | 86 - 115 | |
| Sodium | 50000 | 51600 | 103 | 90 - 115 | |

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-15171-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-64784

Method: 6010B

**Preparation: 3005A
Dissolved**

MS Lab Sample ID: 280-15171-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/02/2011 2049
Prep Date: 05/02/2011 0730
Leach Date: N/A

Analysis Batch: 280-65251
Prep Batch: 280-64784
Leach Batch: N/A

Instrument ID: MT_025
Lab File ID: 25A4050211.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-15171-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/02/2011 2051
Prep Date: 05/02/2011 0730
Leach Date: N/A

Analysis Batch: 280-65251
Prep Batch: 280-64784
Leach Batch: N/A

Instrument ID: MT_025
Lab File ID: 25A4050211.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | <u>% Rec.</u> | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|-----------|---------------|-----|----------|-----|-----------|---------|----------|
| | MS | MSD | | | | | |
| Arsenic | 98 | 97 | 84 - 124 | 2 | 25 | | |
| Barium | 108 | 106 | 85 - 120 | 1 | 25 | | |
| Cadmium | 107 | 106 | 82 - 119 | 2 | 25 | | |
| Calcium | 102 | 98 | 48 - 153 | 1 | 25 | | |
| Chromium | 103 | 102 | 73 - 135 | 2 | 25 | | |
| Iron | 97 | 94 | 52 - 155 | 2 | 25 | | |
| Lead | 102 | 101 | 89 - 121 | 1 | 25 | | |
| Magnesium | 103 | 101 | 62 - 146 | 1 | 25 | | |
| Manganese | 106 | 105 | 79 - 121 | 1 | 25 | | |
| Potassium | 108 | 107 | 76 - 132 | 1 | 25 | | |
| Selenium | 104 | 103 | 71 - 140 | 1 | 25 | | |
| Silver | 113 | 112 | 75 - 141 | 2 | 25 | | |
| Sodium | 107 | 104 | 70 - 203 | 1 | 40 | | |

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-15171-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-64784

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID: 280-15171-1 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/02/2011 2049
Prep Date: 05/02/2011 0730
Leach Date: N/A

MSD Lab Sample ID: 280-15171-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/02/2011 2051
Prep Date: 05/02/2011 0730
Leach Date: N/A

| Analyte | Sample Result/Qual | MS Spike Amount | MSD Spike Amount | MS Result/Qual | MSD Result/Qual |
|-----------|--------------------|-----------------|------------------|----------------|-----------------|
| Arsenic | ND | 1000 | 1000 | 982 | 967 |
| Barium | 32 | 2000 | 2000 | 2180 | 2160 |
| Cadmium | ND | 100 | 100 | 107 | 106 |
| Calcium | 69000 | 50000 | 50000 | 120000 | 118000 |
| Chromium | ND | 200 | 200 | 207 | 204 |
| Iron | 750 | 1000 | 1000 | 1720 | 1690 |
| Lead | ND | 500 | 500 | 510 | 504 |
| Magnesium | 21000 | 50000 | 50000 | 72000 | 71200 |
| Manganese | 54 | 500 | 500 | 583 | 577 |
| Potassium | 5800 | 50000 | 50000 | 59800 | 59100 |
| Selenium | ND | 2000 | 2000 | 2090 | 2070 |
| Silver | ND | 50.0 | 50.0 | 56.6 | 55.8 |
| Sodium | 63000 | 50000 | 50000 | 116000 | 115000 |

Serial Dilution - Batch: 280-64784

Method: 6010B
Preparation: 3005A
Dissolved

Lab Sample ID: 280-15171-1
Client Matrix: Water
Dilution: 5.0
Analysis Date: 05/02/2011 2046
Prep Date: 05/02/2011 0730
Leach Date: N/A

Analysis Batch: 280-65251
Prep Batch: 280-64784
Leach Batch: N/A
Units: ug/L

Instrument ID: MT_025
Lab File ID: 25A4050211.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Sample Result/Qual | Result | %Diff | Limit | Qual |
|-----------|--------------------|--------|-------|-------|------|
| Arsenic | ND | ND | NC | 10 | |
| Barium | 32 | ND | 0.09 | 10 | |
| Cadmium | ND | ND | NC | 10 | |
| Calcium | 69000 | 68900 | 0.02 | 10 | |
| Chromium | ND | ND | NC | 10 | |
| Iron | 750 | 768 | NC | 10 | |
| Lead | ND | ND | NC | 10 | |
| Magnesium | 21000 | 20600 | 0.32 | 10 | |
| Manganese | 54 | 53.9 | 0.52 | 10 | |
| Potassium | 5800 | ND | NC | 10 | |
| Selenium | ND | ND | NC | 10 | |
| Silver | ND | ND | NC | 10 | |
| Sodium | 63000 | 63600 | 1.2 | 10 | |

DATA REPORTING QUALIFIERS

| Lab Section | Qualifier | Description |
|-------------|-----------|-------------|
|-------------|-----------|-------------|

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-15171-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---------------------------------|------------------------|--------------|---------------|--------|------------|
| Metals | | | | | |
| Prep Batch: 280-64783 | | | | | |
| LCS 280-64783/2-A | Lab Control Sample | T | Water | 3010A | |
| MB 280-64783/1-A | Method Blank | T | Water | 3010A | |
| 280-15171-1 | BURKHART HOSE | T | Water | 3010A | |
| 280-15171-1MS | Matrix Spike | T | Water | 3010A | |
| 280-15171-1MSD | Matrix Spike Duplicate | T | Water | 3010A | |
| 280-15171-2 | BURKHART TAP | T | Water | 3010A | |
| Prep Batch: 280-64784 | | | | | |
| LCS 280-64715/2-B | Lab Control Sample | D | Water | 3005A | |
| MB 280-64715/1-B | Method Blank | D | Water | 3005A | |
| 280-15171-1 | BURKHART HOSE | D | Water | 3005A | |
| 280-15171-1MS | Matrix Spike | D | Water | 3005A | |
| 280-15171-1MSD | Matrix Spike Duplicate | D | Water | 3005A | |
| 280-15171-2 | BURKHART TAP | D | Water | 3005A | |
| Analysis Batch:280-65251 | | | | | |
| LCS 280-64715/2-B | Lab Control Sample | D | Water | 6010B | 280-64784 |
| MB 280-64715/1-B | Method Blank | D | Water | 6010B | 280-64784 |
| 280-15171-1 | BURKHART HOSE | D | Water | 6010B | 280-64784 |
| 280-15171-1MS | Matrix Spike | D | Water | 6010B | 280-64784 |
| 280-15171-1MSD | Matrix Spike Duplicate | D | Water | 6010B | 280-64784 |
| 280-15171-2 | BURKHART TAP | D | Water | 6010B | 280-64784 |
| Analysis Batch:280-65273 | | | | | |
| LCS 280-64783/2-A | Lab Control Sample | T | Water | 6010B | 280-64783 |
| MB 280-64783/1-A | Method Blank | T | Water | 6010B | 280-64783 |
| 280-15171-1 | BURKHART HOSE | T | Water | 6010B | 280-64783 |
| 280-15171-1MS | Matrix Spike | T | Water | 6010B | 280-64783 |
| 280-15171-1MSD | Matrix Spike Duplicate | T | Water | 6010B | 280-64783 |
| 280-15171-2 | BURKHART TAP | T | Water | 6010B | 280-64783 |

Report Basis

D = Dissolved

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-15171-1

Laboratory Chronicle

Lab ID: 280-15171-1

Client ID: BURKHART HOSE

Sample Date/Time: 04/28/2011 09:45

Received Date/Time: 04/28/2011 14:05

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|-----------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:3005A | 280-15171-B-1-B | | 280-65251 | 280-64784 | 05/02/2011 07:30 | 1 | TAL DEN | KMN |
| A:6010B | 280-15171-B-1-B | | 280-65251 | 280-64784 | 05/02/2011 20:44 | 1 | TAL DEN | JKH |
| P:3010A | 280-15171-A-1-A | | 280-65273 | 280-64783 | 05/02/2011 07:30 | 1 | TAL DEN | KMN |
| A:6010B | 280-15171-A-1-A | | 280-65273 | 280-64783 | 05/02/2011 21:40 | 1 | TAL DEN | HEB |

Lab ID: 280-15171-1 MS

Client ID: BURKHART HOSE

Sample Date/Time: 04/28/2011 09:45

Received Date/Time: 04/28/2011 14:05

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|--------------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:3005A | 280-15171-B-1-C MS | | 280-65251 | 280-64784 | 05/02/2011 07:30 | 1 | TAL DEN | KMN |
| A:6010B | 280-15171-B-1-C MS | | 280-65251 | 280-64784 | 05/02/2011 20:49 | 1 | TAL DEN | JKH |
| P:3010A | 280-15171-A-1-B MS | | 280-65273 | 280-64783 | 05/02/2011 07:30 | 1 | TAL DEN | KMN |
| A:6010B | 280-15171-A-1-B MS | | 280-65273 | 280-64783 | 05/02/2011 21:45 | 1 | TAL DEN | HEB |

Lab ID: 280-15171-1 MSD

Client ID: BURKHART HOSE

Sample Date/Time: 04/28/2011 09:45

Received Date/Time: 04/28/2011 14:05

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|---------------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:3005A | 280-15171-B-1-D MSD | | 280-65251 | 280-64784 | 05/02/2011 07:30 | 1 | TAL DEN | KMN |
| A:6010B | 280-15171-B-1-D MSD | | 280-65251 | 280-64784 | 05/02/2011 20:51 | 1 | TAL DEN | JKH |
| P:3010A | 280-15171-A-1-C MSD | | 280-65273 | 280-64783 | 05/02/2011 07:30 | 1 | TAL DEN | KMN |
| A:6010B | 280-15171-A-1-C MSD | | 280-65273 | 280-64783 | 05/02/2011 21:47 | 1 | TAL DEN | HEB |

Lab ID: 280-15171-1 SD

Client ID: BURKHART HOSE

Sample Date/Time: 04/28/2011 09:45

Received Date/Time: 04/28/2011 14:05

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|--------------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:3005A | 280-15171-B-1-B SD | | 280-65251 | 280-64784 | 05/02/2011 07:30 | 5 | TAL DEN | KMN |
| A:6010B | 280-15171-B-1-B SD | | 280-65251 | 280-64784 | 05/02/2011 20:46 | 5 | TAL DEN | JKH |
| P:3010A | 280-15171-A-1-A SD | | 280-65273 | 280-64783 | 05/02/2011 07:30 | 5 | TAL DEN | KMN |
| A:6010B | 280-15171-A-1-A SD | | 280-65273 | 280-64783 | 05/02/2011 21:42 | 5 | TAL DEN | HEB |

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-15171-1

Laboratory Chronicle

Lab ID: 280-15171-2

Client ID: BURKHART TAP

Sample Date/Time: 04/28/2011 09:50

Received Date/Time: 04/28/2011 14:05

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|-----------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:3005A | 280-15171-B-2-B | | 280-65251 | 280-64784 | 05/02/2011 07:30 | 1 | TAL DEN | KMN |
| A:6010B | 280-15171-B-2-B | | 280-65251 | 280-64784 | 05/02/2011 20:53 | 1 | TAL DEN | JKH |
| P:3010A | 280-15171-A-2-A | | 280-65273 | 280-64783 | 05/02/2011 07:30 | 1 | TAL DEN | KMN |
| A:6010B | 280-15171-A-2-A | | 280-65273 | 280-64783 | 05/02/2011 21:49 | 1 | TAL DEN | HEB |

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|------------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:3005A | MB 280-64715/1-B | | 280-65251 | 280-64784 | 05/02/2011 07:30 | 1 | TAL DEN | KMN |
| A:6010B | MB 280-64715/1-B | | 280-65251 | 280-64784 | 05/02/2011 20:40 | 1 | TAL DEN | JKH |
| P:3010A | MB 280-64783/1-A | | 280-65273 | 280-64783 | 05/02/2011 07:30 | 1 | TAL DEN | KMN |
| A:6010B | MB 280-64783/1-A | | 280-65273 | 280-64783 | 05/02/2011 21:36 | 1 | TAL DEN | HEB |

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|-------------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:3005A | LCS 280-64715/2-B | | 280-65251 | 280-64784 | 05/02/2011 07:30 | 1 | TAL DEN | KMN |
| A:6010B | LCS 280-64715/2-B | | 280-65251 | 280-64784 | 05/02/2011 20:42 | 1 | TAL DEN | JKH |
| P:3010A | LCS 280-64783/2-A | | 280-65273 | 280-64783 | 05/02/2011 07:30 | 1 | TAL DEN | KMN |
| A:6010B | LCS 280-64783/2-A | | 280-65273 | 280-64783 | 05/02/2011 21:38 | 1 | TAL DEN | HEB |

Lab References:

TAL DEN = TestAmerica Denver

Certification Summary

Client: Colorado Oil&Gas Conservation Commission
Project/Site: Burkhart #2800300876

TestAmerica Job ID: 280-15171-1

| Laboratory | Authority | Program | EPA Region | Certification ID |
|--------------------|----------------|---------------------|------------|------------------|
| TestAmerica Denver | | USDA | | P330-08-00036 |
| TestAmerica Denver | A2LA | DoD ELAP | 0 | 2907.01 |
| TestAmerica Denver | A2LA | ISO/IEC 17025 | 0 | 2907.01 |
| TestAmerica Denver | Alabama | State Program | 4 | |
| TestAmerica Denver | Alaska | Alaska UST | 10 | UST-30 |
| TestAmerica Denver | Arizona | State Program | 9 | AZ0713 |
| TestAmerica Denver | Arkansas | State Program | 6 | 88-0687 |
| TestAmerica Denver | California | State Program | 9 | 2513 |
| TestAmerica Denver | Colorado | State Program | 8 | N/A |
| TestAmerica Denver | Connecticut | State Program | 1 | PH-0686 |
| TestAmerica Denver | Florida | NELAC | 4 | E87667 |
| TestAmerica Denver | Georgia | State Program | 4 | N/A |
| TestAmerica Denver | Idaho | State Program | 10 | CO00026 |
| TestAmerica Denver | Illinois | NELAC | 5 | 200017 |
| TestAmerica Denver | Iowa | State Program | 7 | 370 |
| TestAmerica Denver | Kansas | NELAC | 7 | E-10166 |
| TestAmerica Denver | Louisiana | NELAC | 6 | 30785 |
| TestAmerica Denver | Maine | State Program | 1 | CO0002 |
| TestAmerica Denver | Maryland | State Program | 3 | 268 |
| TestAmerica Denver | Minnesota | NELAC | 5 | 8-999-405 |
| TestAmerica Denver | Nevada | State Program | 9 | CO0026 |
| TestAmerica Denver | New Hampshire | NELAC | 1 | 205310 |
| TestAmerica Denver | New Jersey | NELAC | 2 | CO004 |
| TestAmerica Denver | New Mexico | State Program | 6 | N/A |
| TestAmerica Denver | New York | NELAC | 2 | 11964 |
| TestAmerica Denver | North Carolina | North Carolina DENR | 4 | 358 |
| TestAmerica Denver | North Dakota | State Program | 8 | R-034 |
| TestAmerica Denver | Oklahoma | State Program | 6 | 8614 |
| TestAmerica Denver | Oregon | NELAC | 10 | CO200001 |
| TestAmerica Denver | Pennsylvania | NELAC | 3 | 68-00664 |
| TestAmerica Denver | South Carolina | State Program | 4 | 72002 |
| TestAmerica Denver | Tennessee | State Program | 4 | TN02944 |
| TestAmerica Denver | Texas | NELAC | 6 | T104704183-08-TX |
| TestAmerica Denver | Utah | NELAC | 8 | QUAN5 |
| TestAmerica Denver | Washington | State Program | 10 | C1284 |
| TestAmerica Denver | West Virginia | West Virginia DEP | 3 | 354 |
| TestAmerica Denver | Wisconsin | State Program | 5 | 999615430 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Shipping and Receiving Documents

05/04/2011

Login Sample Receipt Checklist

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-15171-1

Login Number: 15171

List Source: TestAmerica Denver

List Number: 1

Creator: Cofoid, Stephen T

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |