

1RP - 1594

GW Sampling Report
Appendix C (Part 1)

Laboratory Analysis

Date:

March 30, 2012

APPENDIX C

LABORATORY ANALYSIS



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Gary Miller
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: June 14, 2007

Work Order: 7052924



Project Name: Rock Queen ESA
Project Number: 2972

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-----------------------|--------|------------|------------|---------------|
| 125727 | Water Station #1 MW-1 | water | 2007-05-24 | 17:25 | 2007-05-29 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 125727 - Water Station #1 MW-1

| | | |
|----------------------|--------------------------------|------------------|
| Analysis: Alkalinity | Analytical Method: SM 2320B | Prep Method: N/A |
| QC Batch: 37938 | Date Analyzed: 2007-06-07 | Analyzed By: SM |
| Prep Batch: 32854 | Sample Preparation: 2007-06-06 | Prepared By: SM |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|---------------|----------|------|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Bicarbonate Alkalinity | | 154 | mg/L as CaCo3 | 1 | 4.00 |
| Total Alkalinity | | 154 | mg/L as CaCo3 | 1 | 4.00 |

Sample: 125727 - Water Station #1 MW-1

| | | |
|-------------------|--------------------------------|----------------------|
| Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5030B |
| QC Batch: 37812 | Date Analyzed: 2007-06-03 | Analyzed By: AG |
| Prep Batch: 32729 | Sample Preparation: 2007-06-02 | Prepared By: AG |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00500 | mg/L | 5 | 0.00100 |
| Toluene | | <0.00500 | mg/L | 5 | 0.00100 |
| Ethylbenzene | | <0.00500 | mg/L | 5 | 0.00100 |
| Xylene | | <0.00500 | mg/L | 5 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.510 | mg/L | 5 | 0.500 | 102 | 23.9 - 107.4 |
| 4-Bromofluorobenzene (4-BFB) | | 0.449 | mg/L | 5 | 0.500 | 90 | 22.2 - 104.5 |

Sample: 125727 - Water Station #1 MW-1

| | | |
|---------------------|--------------------------------|----------------------|
| Analysis: Ca, Total | Analytical Method: S 6010B | Prep Method: S 3010A |
| QC Batch: 38029 | Date Analyzed: 2007-06-11 | Analyzed By: TP |
| Prep Batch: 32755 | Sample Preparation: 2007-06-04 | Prepared By: TS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---------------|------|--------------|-------|----------|------|
| Total Calcium | | 3040 | mg/L | 100 | 1.00 |

Sample: 125727 - Water Station #1 MW-1

| | | |
|--------------------|--------------------------------|------------------|
| Analysis: Hardness | Analytical Method: S 6010B | Prep Method: N/A |
| QC Batch: 38029 | Date Analyzed: 2007-06-11 | Analyzed By: TP |
| Prep Batch: 32755 | Sample Preparation: 2007-06-04 | Prepared By: TS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-------------------|------|--------------|---------------|----------|------|
| Hardness (by ICP) | | 26600 | mg eq CaCO3/L | 1 | 0.00 |

Sample: 125727 - Water Station #1 MW-1

Analysis: Ion Chromatography Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 37610 Date Analyzed: 2007-05-29 Analyzed By: AR
Prep Batch: 32592 Sample Preparation: Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Chloride | | 154000 | mg/L | 5000 | 0.500 |
| Sulfate | | 1800 | mg/L | 50 | 0.500 |

Sample: 125727 - Water Station #1 MW-1

Analysis: K, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 38029 Date Analyzed: 2007-06-11 Analyzed By: TP
Prep Batch: 32755 Sample Preparation: 2007-06-04 Prepared By: TS

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------------|------|--------------|-------|----------|------|
| Total Potassium | | 1950 | mg/L | 100 | 1.00 |

Sample: 125727 - Water Station #1 MW-1

Analysis: Mg, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 38029 Date Analyzed: 2007-06-11 Analyzed By: TP
Prep Batch: 32755 Sample Preparation: 2007-06-04 Prepared By: TS

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------------|------|--------------|-------|----------|------|
| Total Magnesium | | 4620 | mg/L | 100 | 1.00 |

Sample: 125727 - Water Station #1 MW-1

Analysis: Na, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 38029 Date Analyzed: 2007-06-11 Analyzed By: TP
Prep Batch: 32755 Sample Preparation: 2007-06-04 Prepared By: TS

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|------|
| Total Sodium | | 79100 | mg/L | 1000 | 1.00 |

Sample: 125727 - Water Station #1 MW-1

| | | |
|-------------------|-------------------------------|------------------|
| Analysis: pH | Analytical Method: SM 4500-H+ | Prep Method: N/A |
| QC Batch: 37604 | Date Analyzed: 2007-05-29 | Analyzed By: AR |
| Prep Batch: 32588 | Sample Preparation: | Prepared By: AR |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| pH | | 6.45 | s.u. | 1 | 0.00 |

Sample: 125727 - Water Station #1 MW-1

| | | |
|----------------------------|--------------------------------|----------------------|
| Analysis: Salts, Dissolved | Analytical Method: S 6010B | Prep Method: S 3005A |
| QC Batch: 38129 | Date Analyzed: 2007-06-13 | Analyzed By: TP |
| Prep Batch: 32980 | Sample Preparation: 2007-06-12 | Prepared By: TS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---------------------|------|--------------|-------|----------|-------|
| Dissolved Calcium | | 2790 | mg/L | 100 | 0.500 |
| Dissolved Magnesium | | 4530 | mg/L | 100 | 0.500 |
| Dissolved Potassium | | 2210 | mg/L | 100 | 0.500 |
| Dissolved Sodium | | 88400 | mg/L | 1000 | 0.500 |

Sample: 125727 - Water Station #1 MW-1

| | | |
|-------------------|-----------------------------|------------------|
| Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A |
| QC Batch: 37709 | Date Analyzed: 2007-05-31 | Analyzed By: AR |
| Prep Batch: 32678 | Sample Preparation: | Prepared By: AR |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|-------|
| Total Dissolved Solids | | 231100 | mg/L | 100 | 10.00 |

Sample: 125727 - Water Station #1 MW-1

| | | |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B | Prep Method: N/A |
| QC Batch: 37730 | Date Analyzed: 2007-05-31 | Analyzed By: AG |
| Prep Batch: 32692 | Sample Preparation: 2007-05-31 | Prepared By: AG |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <5.00 | mg/L | 1 | 5.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | | 11.3 | mg/L | 1 | 15.0 | 75 | 70 - 130 |

Sample: 125727 - Water Station #1 MW-1

| | | |
|-------------------|--------------------------------|----------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B | Prep Method: S 5030B |
| QC Batch: 37813 | Date Analyzed: 2007-06-03 | Analyzed By: AG |
| Prep Batch: 32729 | Sample Preparation: 2007-06-02 | Prepared By: AG |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| GRO | | <0.500 | mg/L | 5 | 0.100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.435 | mg/L | 5 | 0.500 | 87 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 0.390 | mg/L | 5 | 0.500 | 78 | 70 - 130 |

Method Blank (1) QC Batch: 37610

| | | |
|-------------------|----------------------------|-----------------|
| QC Batch: 37610 | Date Analyzed: 2007-05-29 | Analyzed By: AR |
| Prep Batch: 32592 | QC Preparation: 2007-05-29 | Prepared By: AR |

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Chloride | | 2.14 | mg/L | 0.5 |
| Sulfate | | <0.0485 | mg/L | 0.5 |

Method Blank (1) QC Batch: 37709

| | | |
|-------------------|----------------------------|-----------------|
| QC Batch: 37709 | Date Analyzed: 2007-05-31 | Analyzed By: AR |
| Prep Batch: 32678 | QC Preparation: 2007-05-31 | Prepared By: AR |

| Parameter | Flag | MDL Result | Units | RL |
|------------------------|------|---------------|-------|----|
| Total Dissolved Solids | | 16.00 | mg/L | 10 |

Method Blank (1) QC Batch: 37730

| | | |
|-------------------|----------------------------|-----------------|
| QC Batch: 37730 | Date Analyzed: 2007-05-31 | Analyzed By: AG |
| Prep Batch: 32692 | QC Preparation: 2007-05-31 | Prepared By: AG |

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|----|
| DRO | | 1.13 | mg/L | 5 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | | 13.0 | mg/L | 1 | 15.0 | 87 | 70 - 130 |

Method Blank (1) QC Batch: 37812

QC Batch: 37812
Prep Batch: 32729

Date Analyzed: 2007-06-03
QC Preparation: 2007-06-02

Analyzed By: AG
Prepared By: AG

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| Benzene | | <0.000200 | mg/L | 0.001 |
| Toluene | | <0.000200 | mg/L | 0.001 |
| Ethylbenzene | | <0.000200 | mg/L | 0.001 |
| Xylene | | <0.000300 | mg/L | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.101 | mg/L | 1 | 0.100 | 101 | 60.1 - 116.8 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0887 | mg/L | 1 | 0.100 | 89 | 54.4 - 112.5 |

Method Blank (1) QC Batch: 37813

QC Batch: 37813
Prep Batch: 32729

Date Analyzed: 2007-06-03
QC Preparation: 2007-06-02

Analyzed By: AG
Prepared By: AG

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| GRO | | 0.0689 | mg/L | 0.1 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0875 | mg/L | 1 | 0.100 | 88 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0776 | mg/L | 1 | 0.100 | 78 | 70 - 130 |

Method Blank (1) QC Batch: 37938

QC Batch: 37938
Prep Batch: 32854

Date Analyzed: 2007-06-07
QC Preparation: 2007-06-06

Analyzed By: SM
Prepared By: JS

| Parameter | Flag | MDL Result | Units | RL |
|------------------------|------|---------------|---------------|----|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 |
| Bicarbonate Alkalinity | | <4.00 | mg/L as CaCo3 | 4 |
| Total Alkalinity | | <4.00 | mg/L as CaCo3 | 4 |

Method Blank (1) QC Batch: 38029

QC Batch: 38029
Prep Batch: 32755

Date Analyzed: 2007-06-11
QC Preparation: 2007-06-04

Analyzed By: TP
Prepared By: TS

| Parameter | Flag | MDL Result | Units | RL |
|---------------|------|---------------|-------|----|
| Total Calcium | | <0.517 | mg/L | 1 |

Method Blank (1) QC Batch: 38029

QC Batch: 38029 Date Analyzed: 2007-06-11 Analyzed By: TP
Prep Batch: 32755 QC Preparation: 2007-06-04 Prepared By: TS

| Parameter | Flag | MDL Result | Units | RL |
|-----------------|------|---------------|-------|----|
| Total Potassium | | <0.866 | mg/L | 1 |

Method Blank (1) QC Batch: 38029

QC Batch: 38029 Date Analyzed: 2007-06-11 Analyzed By: TP
Prep Batch: 32755 QC Preparation: 2007-06-04 Prepared By: TS

| Parameter | Flag | MDL Result | Units | RL |
|-----------------|------|---------------|-------|----|
| Total Magnesium | | <0.203 | mg/L | 1 |

Method Blank (1) QC Batch: 38029

QC Batch: 38029 Date Analyzed: 2007-06-11 Analyzed By: TP
Prep Batch: 32755 QC Preparation: 2007-06-04 Prepared By: TS

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|----|
| Total Sodium | | <0.668 | mg/L | 1 |

Method Blank (1) QC Batch: 38129

QC Batch: 38129 Date Analyzed: 2007-06-13 Analyzed By: TP
Prep Batch: 32980 QC Preparation: 2007-06-12 Prepared By: TS

| Parameter | Flag | MDL Result | Units | RL |
|---------------------|------|---------------|-------|-----|
| Dissolved Calcium | | <0.0290 | mg/L | 0.5 |
| Dissolved Magnesium | | <0.0740 | mg/L | 0.5 |
| Dissolved Potassium | | 0.451 | mg/L | 0.5 |
| Dissolved Sodium | | <0.529 | mg/L | 0.5 |

Duplicates (1)

QC Batch: 37604 Date Analyzed: 2007-05-29 Analyzed By: AR
Prep Batch: 32588 QC Preparation: 2007-05-29 Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|-------|------------------|---------------|-------|----------|-----|-----------|
| pH | 6.46 | 6.45 | s.u. | 1 | 0 | 1.5 |

Duplicates (1)

QC Batch: 37709
Prep Batch: 32678

Date Analyzed: 2007-05-31
QC Preparation: 2007-05-31

Analyzed By: AR
Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids | 230000 | 231100 | mg/L | 100 | 0 | 20 |

Duplicates (1)

QC Batch: 37938
Prep Batch: 32854

Date Analyzed: 2007-06-07
QC Preparation: 2007-06-06

Analyzed By: SM
Prepared By: JS

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|------------------|---------------|---------------|----------|-----|-----------|
| Hydroxide Alkalinity | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 0 | 20 |
| Carbonate Alkalinity | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 0 | 20 |
| Bicarbonate Alkalinity | 206 | 208 | mg/L as CaCo3 | 1 | 1 | 20 |
| Total Alkalinity | 206 | 208 | mg/L as CaCo3 | 1 | 1 | 20 |

Laboratory Control Spike (LCS-1)

QC Batch: 37610
Prep Batch: 32592

Date Analyzed: 2007-05-29
QC Preparation: 2007-05-29

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|
| Chloride | 12.8 | mg/L | 1 | 12.5 | <0.0181 | 102 | 90 - 110 |
| Sulfate | 13.0 | mg/L | 1 | 12.5 | <0.0485 | 104 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | 12.6 | mg/L | 1 | 12.5 | <0.0181 | 101 | 90 - 110 | 2 | |
| Sulfate | 13.0 | mg/L | 1 | 12.5 | <0.0485 | 104 | 90 - 110 | 0 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 37730
Prep Batch: 32692

Date Analyzed: 2007-05-31
QC Preparation: 2007-05-31

Analyzed By: AG
Prepared By: AG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | 26.6 | mg/L | 1 | 25.0 | <0.711 | 106 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | 27.2 | mg/L | 1 | 25.0 | <0.711 | 109 | 70 - 130 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Triacontane | 13.0 | 13.1 | mg/L | 1 | 15.0 | 86 | 87 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 37812
Prep Batch: 32729

Date Analyzed: 2007-06-03
QC Preparation: 2007-06-02

Analyzed By: AG
Prepared By: AG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | 0.103 | mg/L | 1 | 0.100 | <0.000200 | 103 | 76.4 - 120.5 |
| Toluene | 0.103 | mg/L | 1 | 0.100 | <0.000200 | 103 | 79.2 - 117.8 |
| Ethylbenzene | 0.0997 | mg/L | 1 | 0.100 | <0.000200 | 100 | 78.8 - 117.9 |
| Xylene | 0.299 | mg/L | 1 | 0.300 | <0.000300 | 100 | 80 - 120.1 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | 0.103 | mg/L | 1 | 0.100 | <0.000200 | 103 | 76.4 - 120.5 | 0 | 20 |
| Toluene | 0.104 | mg/L | 1 | 0.100 | <0.000200 | 104 | 79.2 - 117.8 | 1 | 20 |
| Ethylbenzene | 0.100 | mg/L | 1 | 0.100 | <0.000200 | 100 | 78.8 - 117.9 | 0 | 20 |
| Xylene | 0.301 | mg/L | 1 | 0.300 | <0.000300 | 100 | 80 - 120.1 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 0.0939 | 0.0915 | mg/L | 1 | 0.100 | 94 | 92 | 59.5 - 117.8 |
| 4-Bromofluorobenzene (4-BFB) | 0.0981 | 0.0978 | mg/L | 1 | 0.100 | 98 | 98 | 63.2 - 122.4 |

Laboratory Control Spike (LCS-1)

QC Batch: 37813
Prep Batch: 32729

Date Analyzed: 2007-06-03
QC Preparation: 2007-06-02

Analyzed By: AG
Prepared By: AG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | 0.841 | mg/L | 1 | 1.00 | <0.0590 | 84 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | 0.793 | mg/L | 1 | 1.00 | <0.0590 | 79 | 70 - 130 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 0.105 | 0.114 | mg/L | 1 | 0.100 | 105 | 114 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.0949 | 0.0887 | mg/L | 1 | 0.100 | 95 | 89 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 38029
Prep Batch: 32755

Date Analyzed: 2007-06-11
QC Preparation: 2007-06-04

Analyzed By: TP
Prepared By: TS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Calcium | 51.7 | mg/L | 1 | 50.0 | <0.517 | 103 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Calcium | 52.1 | mg/L | 1 | 50.0 | <0.517 | 104 | 85 - 115 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 38029
Prep Batch: 32755

Date Analyzed: 2007-06-11
QC Preparation: 2007-06-04

Analyzed By: TP
Prepared By: TS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Potassium | 51.5 | mg/L | 1 | 50.0 | <0.866 | 103 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Potassium | 52.0 | mg/L | 1 | 50.0 | <0.866 | 104 | 85 - 115 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 38029
Prep Batch: 32755

Date Analyzed: 2007-06-11
QC Preparation: 2007-06-04

Analyzed By: TP
Prepared By: TS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Magnesium | 50.7 | mg/L | 1 | 50.0 | <0.203 | 101 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Magnesium | 51.0 | mg/L | 1 | 50.0 | <0.203 | 102 | 85 - 115 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 38029
Prep Batch: 32755

Date Analyzed: 2007-06-11
QC Preparation: 2007-06-04

Analyzed By: TP
Prepared By: TS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Sodium | 51.3 | mg/L | 1 | 50.0 | <0.668 | 103 | 87.3 - 124 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Sodium | 52.0 | mg/L | 1 | 50.0 | <0.668 | 104 | 87.3 - 124 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 38129
Prep Batch: 32980

Date Analyzed: 2007-06-13
QC Preparation: 2007-06-12

Analyzed By: TP
Prepared By: TS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Dissolved Calcium | 51.4 | mg/L | 1 | 50.0 | <0.0290 | 103 | 79.1 - 121 |
| Dissolved Magnesium | 51.4 | mg/L | 1 | 50.0 | <0.0740 | 103 | 80.2 - 120 |
| Dissolved Potassium | 51.2 | mg/L | 1 | 50.0 | <0.307 | 102 | 78.8 - 114 |
| Dissolved Sodium | 52.1 | mg/L | 1 | 50.0 | <0.529 | 104 | 79.4 - 123 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Dissolved Calcium | 51.6 | mg/L | 1 | 50.0 | <0.0290 | 103 | 79.1 - 121 | 0 | 20 |
| Dissolved Magnesium | 51.5 | mg/L | 1 | 50.0 | <0.0740 | 103 | 80.2 - 120 | 0 | 20 |
| Dissolved Potassium | 51.3 | mg/L | 1 | 50.0 | <0.307 | 103 | 78.8 - 114 | 0 | 20 |
| Dissolved Sodium | 51.6 | mg/L | 1 | 50.0 | <0.529 | 103 | 79.4 - 123 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 125727

QC Batch: 37610
Prep Batch: 32592

Date Analyzed: 2007-05-29
QC Preparation: 2007-05-29

Analyzed By: AR
Prepared By: AR

continued ...

matrix spikes continued ...

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|-----------|-------|------|--------------|---------------|------|------------|
| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
| Chloride | 177000 | mg/L | 50 | 625 | 179679 | -427 | 90 - 110 |
| Sulfate | 2390 | mg/L | 50 | 625 | 1796.67 | 95 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | 178000 | mg/L | 50 | 625 | 179679 | -267 | 90 - 110 | 1 | |
| Sulfate | 2420 | mg/L | 50 | 625 | 1796.67 | 100 | 90 - 110 | 1 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 126001

QC Batch: 38029
Prep Batch: 32755

Date Analyzed: 2007-06-11
QC Preparation: 2007-06-04

Analyzed By: TP
Prepared By: TS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------|-----------|-------|------|--------------|---------------|------|------------|
| Total Calcium | 65.9 | mg/L | 1 | 50.0 | 14.2 | 103 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Total Calcium | 65.1 | mg/L | 1 | 50.0 | 14.2 | 102 | 75 - 125 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 126001

QC Batch: 38029
Prep Batch: 32755

Date Analyzed: 2007-06-11
QC Preparation: 2007-06-04

Analyzed By: TP
Prepared By: TS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------|-----------|-------|------|--------------|---------------|------|------------|
| Total Potassium | 55.9 | mg/L | 1 | 50.0 | 3.6 | 105 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Total Potassium | 54.9 | mg/L | 1 | 50.0 | 3.6 | 103 | 75 - 125 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Matrix Spike (MS-1) Spiked Sample: 126001

QC Batch: 38029
Prep Batch: 32755

Date Analyzed: 2007-06-11
QC Preparation: 2007-06-04

Analyzed By: TP
Prepared By: TS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Magnesium | 55.1 | mg/L | 1 | 50.0 | 3.55 | 103 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Magnesium | 54.0 | mg/L | 1 | 50.0 | 3.55 | 101 | 75 - 125 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 126001

QC Batch: 38029
Prep Batch: 32755

Date Analyzed: 2007-06-11
QC Preparation: 2007-06-04

Analyzed By: TP
Prepared By: TS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------------|-------|------|-----------------|------------------|------|---------------|
| Total Sodium | ³ 769 | mg/L | 1 | 50.0 | 705 | 128 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Sodium | 766 | mg/L | 1 | 50.0 | 705 | 122 | 75 - 125 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 127171

QC Batch: 38129
Prep Batch: 32980

Date Analyzed: 2007-06-13
QC Preparation: 2007-06-12

Analyzed By: TP
Prepared By: TS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|------------------|-------|------|-----------------|------------------|------|---------------|
| Dissolved Calcium | 142 | mg/L | 1 | 50.0 | 92.3 | 99 | 69 - 130 |
| Dissolved Magnesium | 98.1 | mg/L | 1 | 50.0 | 49 | 98 | 77.9 - 122 |
| Dissolved Potassium | 61.9 | mg/L | 1 | 50.0 | 10.7 | 102 | 76.8 - 117 |
| Dissolved Sodium | ⁴ 244 | mg/L | 1 | 50.0 | 180 | 128 | 84.2 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Dissolved Calcium | 144 | mg/L | 1 | 50.0 | 92.3 | 103 | 69 - 130 | 1 | 20 |
| Dissolved Magnesium | 99.9 | mg/L | 1 | 50.0 | 49 | 102 | 77.9 - 122 | 2 | 20 |

continued ...

³Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Dissolved Potassium | 62.7 | mg/L | 1 | 50.0 | 10.7 | 104 | 76.8 - 117 | 1 | 20 |
| Dissolved Sodium | 239 | mg/L | 1 | 50.0 | 180 | 118 | 84.2 - 120 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 37604

Date Analyzed: 2007-05-29

Analyzed By: AR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| pH | | s.u. | 7.00 | 7.06 | 101 | 98 - 102 | 2007-05-29 |

Standard (CCV-1)

QC Batch: 37604

Date Analyzed: 2007-05-29

Analyzed By: AR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| pH | | s.u. | 7.00 | 7.18 | 102 | 98 - 102 | 2007-05-29 |

Standard (ICV-1)

QC Batch: 37610

Date Analyzed: 2007-05-29

Analyzed By: AR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | mg/L | 12.5 | 12.6 | 101 | 90 - 110 | 2007-05-29 |
| Sulfate | | mg/L | 12.5 | 12.7 | 102 | 90 - 110 | 2007-05-29 |

Standard (CCV-1)

QC Batch: 37610

Date Analyzed: 2007-05-29

Analyzed By: AR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | mg/L | 12.5 | 12.6 | 101 | 90 - 110 | 2007-05-29 |
| Sulfate | | mg/L | 12.5 | 12.7 | 102 | 90 - 110 | 2007-05-29 |

Standard (ICV-1)

QC Batch: 37709

Date Analyzed: 2007-05-31

Analyzed By: AR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Dissolved Solids | | mg/L | 1000 | 1047 | 105 | 90 - 110 | 2007-05-31 |

Standard (CCV-1)

QC Batch: 37709

Date Analyzed: 2007-05-31

Analyzed By: AR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Dissolved Solids | | mg/L | 1000 | 960.0 | 96 | 90 - 110 | 2007-05-31 |

Standard (ICV-1)

QC Batch: 37730

Date Analyzed: 2007-05-31

Analyzed By: AG

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | mg/L | 250 | 277 | 111 | 85 - 115 | 2007-05-31 |

Standard (CCV-1)

QC Batch: 37730

Date Analyzed: 2007-05-31

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | mg/L | 250 | 278 | 111 | 85 - 115 | 2007-05-31 |

Standard (ICV-1)

QC Batch: 37812

Date Analyzed: 2007-06-03

Analyzed By: AG

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.104 | 104 | 85 - 115 | 2007-06-03 |
| Toluene | | mg/L | 0.100 | 0.103 | 103 | 85 - 115 | 2007-06-03 |
| Ethylbenzene | | mg/L | 0.100 | 0.102 | 102 | 85 - 115 | 2007-06-03 |
| Xylene | | mg/L | 0.300 | 0.304 | 101 | 85 - 115 | 2007-06-03 |

Standard (CCV-1)

QC Batch: 37812

Date Analyzed: 2007-06-03

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.102 | 102 | 85 - 115 | 2007-06-03 |
| Toluene | | mg/L | 0.100 | 0.102 | 102 | 85 - 115 | 2007-06-03 |
| Ethylbenzene | | mg/L | 0.100 | 0.0996 | 100 | 85 - 115 | 2007-06-03 |
| Xylene | | mg/L | 0.300 | 0.299 | 100 | 85 - 115 | 2007-06-03 |

Standard (ICV-1)

QC Batch: 37813

Date Analyzed: 2007-06-03

Analyzed By: AG

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | mg/L | 1.00 | 0.872 | 87 | 85 - 115 | 2007-06-03 |

Standard (CCV-1)

QC Batch: 37813

Date Analyzed: 2007-06-03

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | mg/L | 1.00 | 0.981 | 98 | 85 - 115 | 2007-06-03 |

Standard (ICV-1)

QC Batch: 37938

Date Analyzed: 2007-06-07

Analyzed By: SM

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------|------|---------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Alkalinity | | mg/L as CaCo3 | 250 | 244 | 98 | 90 - 110 | 2007-06-07 |

Standard (CCV-1)

QC Batch: 37938

Date Analyzed: 2007-06-07

Analyzed By: SM

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------|------|---------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Alkalinity | | mg/L as CaCo3 | 250 | 244 | 98 | 90 - 110 | 2007-06-07 |

Standard (ICV-1)

QC Batch: 38029

Date Analyzed: 2007-06-11

Analyzed By: TP

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Calcium | | mg/L | 50.0 | 51.7 | 103 | 90 - 110 | 2007-06-11 |

Standard (ICV-1)

QC Batch: 38029

Date Analyzed: 2007-06-11

Analyzed By: TP

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-----------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Potassium | | mg/L | 50.0 | 51.6 | 103 | 90 - 110 | 2007-06-11 |

Standard (ICV-1)

QC Batch: 38029

Date Analyzed: 2007-06-11

Analyzed By: TP

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-----------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Magnesium | | mg/L | 50.0 | 51.6 | 103 | 90 - 110 | 2007-06-11 |

Standard (ICV-1)

QC Batch: 38029

Date Analyzed: 2007-06-11

Analyzed By: TP

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Sodium | | mg/L | 50.0 | 50.6 | 101 | 90 - 110 | 2007-06-11 |

Standard (CCV-1)

QC Batch: 38029

Date Analyzed: 2007-06-11

Analyzed By: TP

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Calcium | | mg/L | 50.0 | 50.8 | 102 | 90 - 110 | 2007-06-11 |

Standard (CCV-1)

QC Batch: 38029

Date Analyzed: 2007-06-11

Analyzed By: TP

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-----------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Potassium | | mg/L | 50.0 | 49.0 | 98 | 90 - 110 | 2007-06-11 |

Standard (CCV-1)

QC Batch: 38029

Date Analyzed: 2007-06-11

Analyzed By: TP

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-----------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Magnesium | | mg/L | 50.0 | 50.1 | 100 | 90 - 110 | 2007-06-11 |

Standard (CCV-1)

QC Batch: 38029

Date Analyzed: 2007-06-11

Analyzed By: TP

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Sodium | | mg/L | 50.0 | 47.4 | 95 | 90 - 110 | 2007-06-11 |

Standard (ICV-1)

QC Batch: 38129

Date Analyzed: 2007-06-13

Analyzed By: TP

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium | | mg/L | 50.0 | 51.7 | 103 | 90 - 110 | 2007-06-13 |
| Dissolved Magnesium | | mg/L | 50.0 | 52.0 | 104 | 90 - 110 | 2007-06-13 |
| Dissolved Potassium | | mg/L | 50.0 | 51.5 | 103 | 90 - 110 | 2007-06-13 |
| Dissolved Sodium | | mg/L | 50.0 | 50.4 | 101 | 90 - 110 | 2007-06-13 |

Standard (CCV-1)

QC Batch: 38129

Date Analyzed: 2007-06-13

Analyzed By: TP

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium | | mg/L | 50.0 | 49.0 | 98 | 90 - 110 | 2007-06-13 |
| Dissolved Magnesium | | mg/L | 50.0 | 50.2 | 100 | 90 - 110 | 2007-06-13 |
| Dissolved Potassium | | mg/L | 50.0 | 49.6 | 99 | 90 - 110 | 2007-06-13 |
| Dissolved Sodium | | mg/L | 50.0 | 51.8 | 104 | 90 - 110 | 2007-06-13 |

7052924

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME:

Celero Energy

SITE MANAGER:

Gary Miller

PROJECT NO.:

2972

PROJECT NAME:

Rock Queen ES A

LAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

PRESERVATIVE
METHOD

HCL

HNO3

ICE

NONE

PTX 8080/808

MTB 8080/808

TPH 418.1

PAH 8270

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

PCI

GC/MS Vol. 8240/8260/824

GC/MS Semi. Vol. 8270/825

PCB's 8080/808

Pest. 808/808

BOD, TSS, pH, TDS, Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

*See Attached
Major ION's*

125721

5-24-07

17:25

W

X

X

Water Station #1-MW-1

3

X

X

X

X

X

RELINQUISHED BY: (Signature)

Gary Miller

Date:

5-24-07

Time:

11:00

RECEIVED BY: (Signature)

ARON

Date:

5-24-07

Time:

11:00

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Rich Densley

Date:

5-30-07

Time:

8:00

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLED BY: (Print & Sign)

William J. Lee

Date:

5-24-07

Time:

SAMPLE SHIPPED BY: (Circle)

FEDER

BUS

HAND DELIVERED

UPS

AIRBILL #

OTHER:

HIGHLANDER CONTACT PERSON:

Results by:

RUSH Charges

Authorized:

Yes

No

RECEIVING LABORATORY:

ADDRESS:

CITY:

CONTACT:

STATE:

ZIP:

PHONE:

RECEIVED BY: (Signature)

DATE:

TIME:

SAMPLE CONDITION WHEN RECEIVED:

40

MATRIX:

W-Water

A-Air

SD-Solid

S-Soil

SL-Sludge

O-Other

REMARKS:

25 P2492410

Please fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Jeff Kindley
Tetra Tech
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: December 7, 2009

Work Order: 9112515



Project Location: Chavez Co., NM
Project Name: Celero/Rock Queen
Project Number: 115-6403134A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 215835 | MW-1 | water | 2009-11-24 | 14:25 | 2009-11-25 |
| 215836 | MW-2 | water | 2009-11-24 | 14:10 | 2009-11-25 |
| 215837 | MW-3 | water | 2009-11-24 | 14:00 | 2009-11-25 |
| 215838 | MW-4 | water | 2009-11-24 | 15:00 | 2009-11-25 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 25 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Celero/Rock Queen were received by TraceAnalysis, Inc. on 2009-11-25 and assigned to work order 9112515. Samples for work order 9112515 were received intact without headspace and at a temperature of 3.2 deg. C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|------------|---------------|---------------------|-------------|---------------------|
| Alkalinity | SM 2320B | 56132 | 2009-12-01 at 10:04 | 65677 | 2009-12-01 at 16:04 |
| BTEX | S 8021B | 56178 | 2009-12-02 at 10:28 | 65725 | 2009-12-02 at 10:28 |
| BTEX | S 8021B | 56235 | 2009-12-06 at 20:57 | 65798 | 2009-12-06 at 20:57 |
| Ca, Dissolved | S 6010B | 56137 | 2009-12-02 at 09:55 | 65745 | 2009-12-03 at 14:57 |
| Chloride (IC) | E 300.0 | 56093 | 2009-11-30 at 12:22 | 65660 | 2009-12-01 at 08:59 |
| Hardness | S 6010B | 56137 | 2009-12-02 at 09:55 | 65745 | 2009-12-03 at 14:57 |
| K, Dissolved | S 6010B | 56137 | 2009-12-02 at 09:55 | 65745 | 2009-12-03 at 14:57 |
| Mg, Dissolved | S 6010B | 56137 | 2009-12-02 at 09:55 | 65745 | 2009-12-03 at 14:57 |
| Na, Dissolved | S 6010B | 56137 | 2009-12-02 at 09:55 | 65745 | 2009-12-03 at 14:57 |
| pH | SM 4500-H+ | 56049 | 2009-11-25 at 11:09 | 65589 | 2009-11-25 at 12:09 |
| SO4 (IC) | E 300.0 | 56093 | 2009-11-30 at 12:22 | 65660 | 2009-12-01 at 08:59 |
| TDS | SM 2540C | 56115 | 2009-12-01 at 10:13 | 65808 | 2009-12-07 at 14:46 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9112515 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 215835 - MW-1

Laboratory: Midland
Analysis: Alkalinity
QC Batch: 65677
Prep Batch: 56132

Analytical Method: SM 2320B
Date Analyzed: 2009-12-01
Sample Preparation: 2009-12-01

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|---------------|----------|------|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Bicarbonate Alkalinity | | 97.0 | mg/L as CaCo3 | 1 | 4.00 |
| Total Alkalinity | | 97.0 | mg/L as CaCo3 | 1 | 4.00 |

Sample: 215835 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 65798
Prep Batch: 56235

Analytical Method: S 8021B
Date Analyzed: 2009-12-06
Sample Preparation: 2009-12-06

Prep Method: S 5030B
Analyzed By: tn
Prepared By: tn

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | 0.00160 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0736 | mg/L | 1 | 0.100 | 74 | 70.9 - 119.8 |
| 4-Bromofluorobenzene (4-BFB) | ¹ | 0.0530 | mg/L | 1 | 0.100 | 53 | 68.1 - 118.8 |

Sample: 215835 - MW-1

Laboratory: Lubbock
Analysis: Cations
QC Batch: 65745
Prep Batch: 56137

Analytical Method: S 6010B
Date Analyzed: 2009-12-03
Sample Preparation: 2009-12-02

Prep Method: S 3005A
Analyzed By: RR
Prepared By: KV

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-------------------|------|--------------|-------|----------|------|
| Dissolved Calcium | | 2060 | mg/L | 100 | 1.00 |

continued ...

¹ Surrogate 4-BFB out due to matrix interference. Sample was reran on 12-06-2009 to confirm matrix interference results.

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 5 of 25
Chavez Co., NM

sample 215835 continued ...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---------------------|------|--------------|-------|----------|------|
| Dissolved Potassium | | 1840 | mg/L | 100 | 1.00 |
| Dissolved Magnesium | | 3630 | mg/L | 100 | 1.00 |
| Dissolved Sodium | | 70000 | mg/L | 100 | 1.00 |

Sample: 215835 - MW-1

| | | | |
|-------------------------|--------------------------------|------------------|--|
| Laboratory: Midland | | | |
| Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A | |
| QC Batch: 65660 | Date Analyzed: 2009-12-01 | Analyzed By: AR | |
| Prep Batch: 56093 | Sample Preparation: 2009-11-30 | Prepared By: AR | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Chloride | | 139000 | mg/L | 5000 | 0.500 |

Sample: 215835 - MW-1

| | | | |
|---------------------|--------------------------------|------------------|--|
| Laboratory: Lubbock | | | |
| Analysis: Hardness | Analytical Method: S 6010B | Prep Method: N/A | |
| QC Batch: 65745 | Date Analyzed: 2009-12-03 | Analyzed By: RR | |
| Prep Batch: 56137 | Sample Preparation: 2009-12-02 | Prepared By: KV | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-------------------|------|--------------|---------------|----------|------|
| Hardness (by ICP) | | 20100 | mg eq CaCO3/L | 1 | 0.00 |

Sample: 215835 - MW-1

| | | | |
|---------------------|--------------------------------|------------------|--|
| Laboratory: Midland | | | |
| Analysis: pH | Analytical Method: SM 4500-H+ | Prep Method: N/A | |
| QC Batch: 65589 | Date Analyzed: 2009-11-25 | Analyzed By: AR | |
| Prep Batch: 56049 | Sample Preparation: 2009-11-25 | Prepared By: AR | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| pH | | 5.15 | s.u. | 1 | 0.00 |

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 6 of 25
Chavez Co., NM

Sample: 215835 - MW-1

| | | | | | |
|-------------|----------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | SO4 (IC) | Date Analyzed: | 2009-12-01 | Analyzed By: | AR |
| QC Batch: | 65660 | Sample Preparation: | 2009-11-30 | Prepared By: | AR |
| Prep Batch: | 56093 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Sulfate | | 1600 | mg/L | 50 | 0.500 |

Sample: 215835 - MW-1

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | SM 2540C | Prep Method: | N/A |
| Analysis: | TDS | Date Analyzed: | 2009-12-07 | Analyzed By: | AR |
| QC Batch: | 65808 | Sample Preparation: | 2009-12-01 | Prepared By: | AR |
| Prep Batch: | 56115 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 220000 | mg/L | 10 | 10.0 |

Sample: 215836 - MW-2

| | | | | | |
|-------------|------------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | SM 2320B | Prep Method: | N/A |
| Analysis: | Alkalinity | Date Analyzed: | 2009-12-01 | Analyzed By: | AR |
| QC Batch: | 65677 | Sample Preparation: | 2009-12-01 | Prepared By: | AR |
| Prep Batch: | 56132 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|---------------|----------|------|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Bicarbonate Alkalinity | | 127 | mg/L as CaCo3 | 1 | 4.00 |
| Total Alkalinity | | 127 | mg/L as CaCo3 | 1 | 4.00 |

Sample: 215836 - MW-2

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Midland | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2009-12-02 | Analyzed By: | tn |
| QC Batch: | 65725 | Sample Preparation: | 2009-12-02 | Prepared By: | tn |
| Prep Batch: | 56178 | | | | |

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 7 of 25
Chavez Co., NM

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.105 | mg/L | 1 | 0.100 | 105 | 70.9 - 119.8 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0895 | mg/L | 1 | 0.100 | 90 | 68.1 - 118.8 |

Sample: 215836 - MW-2

Laboratory: Lubbock
Analysis: Cations
QC Batch: 65745
Prep Batch: 56137

Analytical Method: S 6010B
Date Analyzed: 2009-12-03
Sample Preparation: 2009-12-02

Prep Method: S 3005A
Analyzed By: RR
Prepared By: KV

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---------------------|------|--------------|-------|----------|------|
| Dissolved Calcium | | 1010 | mg/L | 10 | 1.00 |
| Dissolved Potassium | | 270 | mg/L | 10 | 1.00 |
| Dissolved Magnesium | | 633 | mg/L | 10 | 1.00 |
| Dissolved Sodium | | 10800 | mg/L | 100 | 1.00 |

Sample: 215836 - MW-2

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 65660
Prep Batch: 56093

Analytical Method: E 300.0
Date Analyzed: 2009-12-01
Sample Preparation: 2009-11-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Chloride | | 19900 | mg/L | 500 | 0.500 |

Sample: 215836 - MW-2

Laboratory: Lubbock
Analysis: Hardness
QC Batch: 65745
Prep Batch: 56137

Analytical Method: S 6010B
Date Analyzed: 2009-12-03
Sample Preparation: 2009-12-02

Prep Method: N/A
Analyzed By: RR
Prepared By: KV

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 8 of 25
Chavez Co., NM

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-------------------|------|--------------|---------------|----------|------|
| Hardness (by ICP) | | 5130 | mg eq CaCO3/L | 1 | 0.00 |

Sample: 215836 - MW-2

Laboratory: Midland

Analysis: pH

QC Batch: 65589

Prep Batch: 56049

Analytical Method: SM 4500-H+

Date Analyzed: 2009-11-25

Sample Preparation: 2009-11-25

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| pH | | 6.97 | s.u. | 1 | 0.00 |

Sample: 215836 - MW-2

Laboratory: Midland

Analysis: SO4 (IC)

QC Batch: 65660

Prep Batch: 56093

Analytical Method: E 300.0

Date Analyzed: 2009-12-01

Sample Preparation: 2009-11-30

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Sulfate | | 413 | mg/L | 50 | 0.500 |

Sample: 215836 - MW-2

Laboratory: Midland

Analysis: TDS

QC Batch: 65808

Prep Batch: 56115

Analytical Method: SM 2540C

Date Analyzed: 2009-12-07

Sample Preparation: 2009-12-01

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 146000 | mg/L | 100 | 10.0 |

Sample: 215837 - MW-3

Laboratory: Midland

Analysis: Alkalinity

QC Batch: 65677

Prep Batch: 56132

Analytical Method: SM 2320B

Date Analyzed: 2009-12-01

Sample Preparation: 2009-12-01

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 9 of 25
Chavez Co., NM

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|---------------|----------|------|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Bicarbonate Alkalinity | | 92.0 | mg/L as CaCo3 | 1 | 4.00 |
| Total Alkalinity | | 92.0 | mg/L as CaCo3 | 1 | 4.00 |

Sample: 215837 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 65725
Prep Batch: 56178

Analytical Method: S 8021B
Date Analyzed: 2009-12-02
Sample Preparation: 2009-12-02

Prep Method: S 5030B
Analyzed By: tn
Prepared By: tn

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0967 | mg/L | 1 | 0.100 | 97 | 70.9 - 119.8 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0812 | mg/L | 1 | 0.100 | 81 | 68.1 - 118.8 |

Sample: 215837 - MW-3

Laboratory: Lubbock
Analysis: Cations
QC Batch: 65745
Prep Batch: 56137

Analytical Method: S 6010B
Date Analyzed: 2009-12-03
Sample Preparation: 2009-12-02

Prep Method: S 3005A
Analyzed By: RR
Prepared By: KV

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---------------------|------|--------------|-------|----------|------|
| Dissolved Calcium | | 6030 | mg/L | 100 | 1.00 |
| Dissolved Potassium | | 323 | mg/L | 10 | 1.00 |
| Dissolved Magnesium | | 2150 | mg/L | 10 | 1.00 |
| Dissolved Sodium | | 29900 | mg/L | 100 | 1.00 |

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 10 of 25
Chavez Co., NM

Sample: 215837 - MW-3

| | | | | | |
|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | Chloride (IC) | Date Analyzed: | 2009-12-01 | Analyzed By: | AR |
| QC Batch: | 65660 | Sample Preparation: | 2009-11-30 | Prepared By: | AR |
| Prep Batch: | 56093 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Chloride | | 59500 | mg/L | 5000 | 0.500 |

Sample: 215837 - MW-3

| | | | | | |
|-------------|----------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | S 6010B | Prep Method: | N/A |
| Analysis: | Hardness | Date Analyzed: | 2009-12-03 | Analyzed By: | RR |
| QC Batch: | 65745 | Sample Preparation: | 2009-12-02 | Prepared By: | KV |
| Prep Batch: | 56137 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-------------------|------|--------------|---------------|----------|------|
| Hardness (by ICP) | | 23900 | mg eq CaCO3/L | 1 | 0.00 |

Sample: 215837 - MW-3

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | SM 4500-H+ | Prep Method: | N/A |
| Analysis: | pH | Date Analyzed: | 2009-11-25 | Analyzed By: | AR |
| QC Batch: | 65589 | Sample Preparation: | 2009-11-25 | Prepared By: | AR |
| Prep Batch: | 56049 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| pH | | 6.02 | s.u. | 1 | 0.00 |

Sample: 215837 - MW-3

| | | | | | |
|-------------|----------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | SO4 (IC) | Date Analyzed: | 2009-12-01 | Analyzed By: | AR |
| QC Batch: | 65660 | Sample Preparation: | 2009-11-30 | Prepared By: | AR |
| Prep Batch: | 56093 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Sulfate | | 908 | mg/L | 50 | 0.500 |

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 11 of 25
Chavez Co., NM

Sample: 215837 - MW-3

Laboratory: Midland
Analysis: TDS
QC Batch: 65808
Prep Batch: 56115

Analytical Method: SM 2540C
Date Analyzed: 2009-12-07
Sample Preparation: 2009-12-01

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 108000 | mg/L | 100 | 10.0 |

Sample: 215838 - MW-4

Laboratory: Midland
Analysis: Alkalinity
QC Batch: 65677
Prep Batch: 56132

Analytical Method: SM 2320B
Date Analyzed: 2009-12-01
Sample Preparation: 2009-12-01

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|---------------|----------|------|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Bicarbonate Alkalinity | | 118 | mg/L as CaCo3 | 1 | 4.00 |
| Total Alkalinity | | 118 | mg/L as CaCo3 | 1 | 4.00 |

Sample: 215838 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 65725
Prep Batch: 56178

Analytical Method: S 8021B
Date Analyzed: 2009-12-02
Sample Preparation: 2009-12-02

Prep Method: S 5030B
Analyzed By: tn
Prepared By: tn

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.106 | mg/L | 1 | 0.100 | 106 | 70.9 - 119.8 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0896 | mg/L | 1 | 0.100 | 90 | 68.1 - 118.8 |

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 12 of 25
Chavez Co., NM

Sample: 215838 - MW-4

Laboratory: Lubbock
Analysis: Cations
QC Batch: 65745
Prep Batch: 56137

Analytical Method: S 6010B
Date Analyzed: 2009-12-03
Sample Preparation: 2009-12-02

Prep Method: S 3005A
Analyzed By: RR
Prepared By: KV

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---------------------|------|--------------|-------|----------|------|
| Dissolved Calcium | | 791 | mg/L | 10 | 1.00 |
| Dissolved Potassium | | 76.7 | mg/L | 1 | 1.00 |
| Dissolved Magnesium | | 253 | mg/L | 1 | 1.00 |
| Dissolved Sodium | | 4880 | mg/L | 100 | 1.00 |

Sample: 215838 - MW-4

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 65660
Prep Batch: 56093

Analytical Method: E 300.0
Date Analyzed: 2009-12-01
Sample Preparation: 2009-11-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Chloride | | 9360 | mg/L | 1000 | 0.500 |

Sample: 215838 - MW-4

Laboratory: Lubbock
Analysis: Hardness
QC Batch: 65745
Prep Batch: 56137

Analytical Method: S 6010B
Date Analyzed: 2009-12-03
Sample Preparation: 2009-12-02

Prep Method: N/A
Analyzed By: RR
Prepared By: KV

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-------------------|------|--------------|---------------|----------|------|
| Hardness (by ICP) | | 3020 | mg eq CaCO3/L | 1 | 0.00 |

Sample: 215838 - MW-4

Laboratory: Midland
Analysis: pH
QC Batch: 65589
Prep Batch: 56049

Analytical Method: SM 4500-H+
Date Analyzed: 2009-11-25
Sample Preparation: 2009-11-25

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 13 of 25
Chavez Co., NM

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| pH | | 7.35 | s.u. | 1 | 0.00 |

Sample: 215838 - MW-4

| | | | | |
|---------------------|--------------------------------|------------------|--|--|
| Laboratory: Midland | | | | |
| Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A | | |
| QC Batch: 65660 | Date Analyzed: 2009-12-01 | Analyzed By: AR | | |
| Prep Batch: 56093 | Sample Preparation: 2009-11-30 | Prepared By: AR | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Sulfate | | 286 | mg/L | 5 | 0.500 |

Sample: 215838 - MW-4

| | | | | |
|---------------------|--------------------------------|------------------|--|--|
| Laboratory: Midland | | | | |
| Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A | | |
| QC Batch: 65808 | Date Analyzed: 2009-12-07 | Analyzed By: AR | | |
| Prep Batch: 56115 | Sample Preparation: 2009-12-01 | Prepared By: AR | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 22600 | mg/L | 100 | 10.0 |

Method Blank (1) QC Batch: 65660

| | | |
|-------------------|----------------------------|-----------------|
| QC Batch: 65660 | Date Analyzed: 2009-12-01 | Analyzed By: AR |
| Prep Batch: 56093 | QC Preparation: 2009-11-30 | Prepared By: AR |

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Chloride | | <0.475 | mg/L | 0.5 |

Method Blank (1) QC Batch: 65660

| | | |
|-------------------|----------------------------|-----------------|
| QC Batch: 65660 | Date Analyzed: 2009-12-01 | Analyzed By: AR |
| Prep Batch: 56093 | QC Preparation: 2009-11-30 | Prepared By: AR |

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 14 of 25
Chavez Co., NM

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Sulfate | | <0.217 | mg/L | 0.5 |

Method Blank (1) QC Batch: 65677

QC Batch: 65677 Date Analyzed: 2009-12-01 Analyzed By: AR
Prep Batch: 56132 QC Preparation: 2009-12-01 Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|------------------------|------|---------------|---------------|----|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 |
| Bicarbonate Alkalinity | | <4.00 | mg/L as CaCo3 | 4 |
| Total Alkalinity | | <4.00 | mg/L as CaCo3 | 4 |

Method Blank (1) QC Batch: 65725

QC Batch: 65725 Date Analyzed: 2009-12-02 Analyzed By: tn
Prep Batch: 56178 QC Preparation: 2009-12-02 Prepared By: tn

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| Benzene | | <0.000300 | mg/L | 0.001 |
| Toluene | | <0.000200 | mg/L | 0.001 |
| Ethylbenzene | | <0.000200 | mg/L | 0.001 |
| Xylene | | <0.000900 | mg/L | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.108 | mg/L | 1 | 0.100 | 108 | 73.6 - 116.6 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0928 | mg/L | 1 | 0.100 | 93 | 70.6 - 107.5 |

Method Blank (1) QC Batch: 65745

QC Batch: 65745 Date Analyzed: 2009-12-03 Analyzed By: RR
Prep Batch: 56137 QC Preparation: 2009-12-02 Prepared By: KV

| Parameter | Flag | MDL Result | Units | RL |
|-------------------|------|---------------|-------|----|
| Dissolved Calcium | | <0.117 | mg/L | 1 |

continued ...

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 15 of 25
Chavez Co., NM

method blank continued ...

| Parameter | Flag | MDL Result | Units | RL |
|---------------------|------|---------------|-------|----|
| Dissolved Potassium | | <0.172 | mg/L | 1 |
| Dissolved Magnesium | | <0.160 | mg/L | 1 |
| Dissolved Sodium | | <0.0500 | mg/L | 1 |

Method Blank (1) QC Batch: 65798

QC Batch: 65798
Prep Batch: 56235

Date Analyzed: 2009-12-06
QC Preparation: 2009-12-06

Analyzed By: tn
Prepared By: tn

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| Benzene | | <0.000300 | mg/L | 0.001 |
| Toluene | | <0.000200 | mg/L | 0.001 |
| Ethylbenzene | | <0.000200 | mg/L | 0.001 |
| Xylene | | <0.000900 | mg/L | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0997 | mg/L | 1 | 0.100 | 100 | 73.6 - 116.6 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0860 | mg/L | 1 | 0.100 | 86 | 70.6 - 107.5 |

Method Blank (1) QC Batch: 65808

QC Batch: 65808
Prep Batch: 56115

Date Analyzed: 2009-12-07
QC Preparation: 2009-12-01

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|------------------------|------|---------------|-------|----|
| Total Dissolved Solids | | <9.75 | mg/L | 10 |

Duplicates (1) Duplicated Sample: 215843

QC Batch: 65589
Prep Batch: 56049

Date Analyzed: 2009-11-25
QC Preparation: 2009-11-25

Analyzed By: AR
Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|-------|---------------------|------------------|-------|----------|-----|--------------|
| pH | 7.61 | 7.55 | s.u. | 1 | 1 | 1.5 |

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 16 of 25
Chavez Co., NM

Duplicates (1) Duplicated Sample: 215843

QC Batch: 65677 Date Analyzed: 2009-12-01 Analyzed By: AR
Prep Batch: 56132 QC Preparation: 2009-12-01 Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|------------------|---------------|---------------|----------|-----|-----------|
| Hydroxide Alkalinity | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 0 | 20 |
| Carbonate Alkalinity | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 0 | 20 |
| Bicarbonate Alkalinity | 95.0 | 114 | mg/L as CaCo3 | 1 | 18 | 20 |
| Total Alkalinity | 95.0 | 114 | mg/L as CaCo3 | 1 | 18 | 20 |

Duplicates (1) Duplicated Sample: 215843

QC Batch: 65808 Date Analyzed: 2009-12-07 Analyzed By: AR
Prep Batch: 56115 QC Preparation: 2009-12-01 Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids | 9500 | 9100 | mg/L | 100 | 4 | 10 |

Laboratory Control Spike (LCS-1)

QC Batch: 65660 Date Analyzed: 2009-12-01 Analyzed By: AR
Prep Batch: 56093 QC Preparation: 2009-11-30 Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|
| Chloride | 26.1 | mg/L | 1 | 25.0 | <0.475 | 104 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | 26.0 | mg/L | 1 | 25.0 | <0.475 | 104 | 90 - 110 | 0 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 65660 Date Analyzed: 2009-12-01 Analyzed By: AR
Prep Batch: 56093 QC Preparation: 2009-11-30 Prepared By: AR

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 17 of 25
Chavez Co., NM

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | 24.3 | mg/L | 1 | 25.0 | <0.217 | 97 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | 24.8 | mg/L | 1 | 25.0 | <0.217 | 99 | 90 - 110 | 2 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 65725
Prep Batch: 56178

Date Analyzed: 2009-12-02
QC Preparation: 2009-12-02

Analyzed By: tn
Prepared By: tn

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | 0.0980 | mg/L | 1 | 0.100 | <0.000300 | 98 | 79.4 - 111.8 |
| Toluene | 0.0973 | mg/L | 1 | 0.100 | <0.000200 | 97 | 79.3 - 110 |
| Ethylbenzene | 0.0977 | mg/L | 1 | 0.100 | <0.000200 | 98 | 73.8 - 113.1 |
| Xylene | 0.290 | mg/L | 1 | 0.300 | <0.000900 | 97 | 73.9 - 113.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | 0.100 | mg/L | 1 | 0.100 | <0.000300 | 100 | 79.4 - 111.8 | 2 | 20 |
| Toluene | 0.100 | mg/L | 1 | 0.100 | <0.000200 | 100 | 79.3 - 110 | 3 | 20 |
| Ethylbenzene | 0.0994 | mg/L | 1 | 0.100 | <0.000200 | 99 | 73.8 - 113.1 | 2 | 20 |
| Xylene | 0.296 | mg/L | 1 | 0.300 | <0.000900 | 99 | 73.9 - 113.6 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 0.104 | 0.102 | mg/L | 1 | 0.100 | 104 | 102 | 76.2 - 119.6 |
| 4-Bromofluorobenzene (4-BFB) | 0.0938 | 0.0926 | mg/L | 1 | 0.100 | 94 | 93 | 77.9 - 109.8 |

Laboratory Control Spike (LCS-1)

QC Batch: 65745
Prep Batch: 56137

Date Analyzed: 2009-12-03
QC Preparation: 2009-12-02

Analyzed By: RR
Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Dissolved Calcium | 51.9 | mg/L | 1 | 50.0 | <0.117 | 104 | 85 - 115 |

continued ...

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 18 of 25
Chavez Co., NM

control spikes continued ...

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Dissolved Potassium | 50.7 | mg/L | 1 | 50.0 | <0.172 | 101 | 85 - 115 |
| Dissolved Magnesium | 50.5 | mg/L | 1 | 50.0 | <0.160 | 101 | 85 - 115 |
| Dissolved Sodium | 51.1 | mg/L | 1 | 50.0 | <0.0500 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Dissolved Calcium | 50.8 | mg/L | 1 | 50.0 | <0.117 | 102 | 85 - 115 | 2 | 20 |
| Dissolved Potassium | 50.0 | mg/L | 1 | 50.0 | <0.172 | 100 | 85 - 115 | 1 | 20 |
| Dissolved Magnesium | 49.7 | mg/L | 1 | 50.0 | <0.160 | 99 | 85 - 115 | 2 | 20 |
| Dissolved Sodium | 49.7 | mg/L | 1 | 50.0 | <0.0500 | 99 | 85 - 115 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 65798
Prep Batch: 56235

Date Analyzed: 2009-12-06
QC Preparation: 2009-12-06

Analyzed By: tn
Prepared By: tn

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | 0.101 | mg/L | 1 | 0.100 | <0.000300 | 101 | 79.4 - 111.8 |
| Toluene | 0.101 | mg/L | 1 | 0.100 | <0.000200 | 101 | 79.3 - 110 |
| Ethylbenzene | 0.100 | mg/L | 1 | 0.100 | <0.000200 | 100 | 73.8 - 113.1 |
| Xylene | 0.300 | mg/L | 1 | 0.300 | <0.000900 | 100 | 73.9 - 113.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | 0.103 | mg/L | 1 | 0.100 | <0.000300 | 103 | 79.4 - 111.8 | 2 | 20 |
| Toluene | 0.102 | mg/L | 1 | 0.100 | <0.000200 | 102 | 79.3 - 110 | 1 | 20 |
| Ethylbenzene | 0.102 | mg/L | 1 | 0.100 | <0.000200 | 102 | 73.8 - 113.1 | 2 | 20 |
| Xylene | 0.304 | mg/L | 1 | 0.300 | <0.000900 | 101 | 73.9 - 113.6 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 0.101 | 0.0995 | mg/L | 1 | 0.100 | 101 | 100 | 76.2 - 119.6 |
| 4-Bromofluorobenzene (4-BFB) | 0.0939 | 0.0925 | mg/L | 1 | 0.100 | 94 | 92 | 77.9 - 109.8 |

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 19 of 25
Chavez Co., NM

Laboratory Control Spike (LCS-1)

QC Batch: 65808
Prep Batch: 56115

Date Analyzed: 2009-12-07
QC Preparation: 2009-12-01

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids | 972 | mg/L | 1 | 1000 | <9.75 | 97 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids | 1010 | mg/L | 1 | 1000 | <9.75 | 101 | 90 - 110 | 4 | 10 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 215843

QC Batch: 65660
Prep Batch: 56093

Date Analyzed: 2009-12-01
QC Preparation: 2009-11-30

Analyzed By: AR
Prepared By: AR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|-------------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | ² 5330 | mg/L | 5 | 27.5 | 4690 | 2327 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|-------------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | ³ 5320 | mg/L | 5 | 27.5 | 4690 | 2291 | 90 - 110 | 0 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 215843

QC Batch: 65660
Prep Batch: 56093

Date Analyzed: 2009-12-01
QC Preparation: 2009-11-30

Analyzed By: AR
Prepared By: AR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|------------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | ⁴ 254 | mg/L | 5 | 27.5 | 150 | 378 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

³MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 20 of 25
Chavez Co., NM

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|------------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | ⁵ 256 | mg/L | 5 | 27.5 | 150 | 385 | 90 - 110 | 1 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 215919

QC Batch: 65725
Prep Batch: 56178

Date Analyzed: 2009-12-02
QC Preparation: 2009-12-02

Analyzed By: tn
Prepared By: tn

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | 13.9 | mg/L | 50 | 5.00 | 8.779 | 102 | 77.3 - 117.4 |
| Toluene | 4.88 | mg/L | 50 | 5.00 | <0.0100 | 98 | 75 - 111.8 |
| Ethylbenzene | 5.23 | mg/L | 50 | 5.00 | 0.2906 | 99 | 78.8 - 106.6 |
| Xylene | 14.5 | mg/L | 50 | 15.0 | <0.0450 | 97 | 68.9 - 114 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | 13.6 | mg/L | 50 | 5.00 | 8.779 | 96 | 77.3 - 117.4 | 2 | 20 |
| Toluene | 4.72 | mg/L | 50 | 5.00 | <0.0100 | 94 | 75 - 111.8 | 3 | 20 |
| Ethylbenzene | 5.08 | mg/L | 50 | 5.00 | 0.2906 | 96 | 78.8 - 106.6 | 3 | 20 |
| Xylene | 14.1 | mg/L | 50 | 15.0 | <0.0450 | 94 | 68.9 - 114 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 5.43 | 5.26 | mg/L | 50 | 5 | 109 | 105 | 76.3 - 109.8 |
| 4-Bromofluorobenzene (4-BFB) | 4.74 | 4.63 | mg/L | 50 | 5 | 95 | 93 | 75.2 - 112.8 |

Matrix Spike (MS-1) Spiked Sample: 215149

QC Batch: 65745
Prep Batch: 56137

Date Analyzed: 2009-12-03
QC Preparation: 2009-12-02

Analyzed By: RR
Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Dissolved Calcium | 104 | mg/L | 1 | 50.0 | 54.7 | 99 | 75 - 125 |
| Dissolved Potassium | 53.0 | mg/L | 1 | 50.0 | 2.85 | 100 | 75 - 125 |
| Dissolved Magnesium | 88.0 | mg/L | 1 | 50.0 | 40 | 96 | 75 - 125 |
| Dissolved Sodium | 199 | mg/L | 1 | 50.0 | 150 | 98 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

⁵MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 21 of 25
Chavez Co., NM

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Dissolved Calcium | 102 | mg/L | 1 | 50.0 | 54.7 | 95 | 75 - 125 | 2 | 20 |
| Dissolved Potassium | 53.3 | mg/L | 1 | 50.0 | 2.85 | 101 | 75 - 125 | 1 | 20 |
| Dissolved Magnesium | 86.5 | mg/L | 1 | 50.0 | 40 | 93 | 75 - 125 | 2 | 20 |
| Dissolved Sodium | 194 | mg/L | 1 | 50.0 | 150 | 88 | 75 - 125 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 216231

QC Batch: 65798
Prep Batch: 56235

Date Analyzed: 2009-12-06
QC Preparation: 2009-12-06

Analyzed By: tn
Prepared By: tn

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|--------------|
| Benzene | 0.104 | mg/L | 1 | 0.100 | <0.000300 | 104 | 77.3 - 117.4 |
| Toluene | 0.103 | mg/L | 1 | 0.100 | <0.000200 | 103 | 75 - 111.8 |
| Ethylbenzene | 0.102 | mg/L | 1 | 0.100 | <0.000200 | 102 | 78.8 - 106.6 |
| Xylene | 0.305 | mg/L | 1 | 0.300 | <0.000900 | 102 | 68.9 - 114 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene | 0.103 | mg/L | 1 | 0.100 | <0.000300 | 103 | 77.3 - 117.4 | 1 | 20 |
| Toluene | 0.103 | mg/L | 1 | 0.100 | <0.000200 | 103 | 75 - 111.8 | 0 | 20 |
| Ethylbenzene | 0.103 | mg/L | 1 | 0.100 | <0.000200 | 103 | 78.8 - 106.6 | 1 | 20 |
| Xylene | 0.306 | mg/L | 1 | 0.300 | <0.000900 | 102 | 68.9 - 114 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|--------------|
| Trifluorotoluene (TFT) | 0.101 | 0.101 | mg/L | 1 | 0.1 | 101 | 101 | 76.3 - 109.8 |
| 4-Bromofluorobenzene (4-BFB) | 0.0936 | 0.0933 | mg/L | 1 | 0.1 | 94 | 93 | 75.2 - 112.8 |

Standard (ICV-1)

QC Batch: 65589

Date Analyzed: 2009-11-25

Analyzed By: AR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| pH | | s.u. | 7.00 | 6.85 | 98 | 98 - 102 | 2009-11-25 |

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 22 of 25
Chavez Co., NM

Standard (CCV-1)

QC Batch: 65589

Date Analyzed: 2009-11-25

Analyzed By: AR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| pH | | s.u. | 7.00 | 7.15 | 102 | 98 - 102 | 2009-11-25 |

Standard (ICV-1)

QC Batch: 65660

Date Analyzed: 2009-12-01

Analyzed By: AR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | mg/L | 25.0 | 25.0 | 100 | 90 - 110 | 2009-12-01 |

Standard (ICV-1)

QC Batch: 65660

Date Analyzed: 2009-12-01

Analyzed By: AR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 24.4 | 98 | 90 - 110 | 2009-12-01 |

Standard (CCV-1)

QC Batch: 65660

Date Analyzed: 2009-12-01

Analyzed By: AR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | mg/L | 25.0 | 24.9 | 100 | 90 - 110 | 2009-12-01 |

Standard (CCV-1)

QC Batch: 65660

Date Analyzed: 2009-12-01

Analyzed By: AR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 24.0 | 96 | 90 - 110 | 2009-12-01 |

Standard (ICV-1)

QC Batch: 65677

Date Analyzed: 2009-12-01

Analyzed By: AR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|------|---------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Hydroxide Alkalinity | | mg/L as CaCo3 | 0.00 | <1.00 | | 0 - 200 | 2009-12-01 |
| Carbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 224 | | 0 - 200 | 2009-12-01 |
| Bicarbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 25.0 | | 0 - 200 | 2009-12-01 |
| Total Alkalinity | | mg/L as CaCo3 | 250 | 249 | 100 | 90 - 110 | 2009-12-01 |

Standard (CCV-1)

QC Batch: 65677

Date Analyzed: 2009-12-01

Analyzed By: AR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|------|---------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Hydroxide Alkalinity | | mg/L as CaCo3 | 0.00 | <1.00 | | 0 - 200 | 2009-12-01 |
| Carbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 224 | | 0 - 200 | 2009-12-01 |
| Bicarbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 26.0 | | 0 - 200 | 2009-12-01 |
| Total Alkalinity | | mg/L as CaCo3 | 250 | 250 | 100 | 90 - 110 | 2009-12-01 |

Standard (CCV-2)

QC Batch: 65725

Date Analyzed: 2009-12-02

Analyzed By: tn

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0896 | 90 | 80 - 120 | 2009-12-02 |
| Toluene | | mg/L | 0.100 | 0.0895 | 90 | 80 - 120 | 2009-12-02 |
| Ethylbenzene | | mg/L | 0.100 | 0.0883 | 88 | 80 - 120 | 2009-12-02 |
| Xylene | | mg/L | 0.300 | 0.263 | 88 | 80 - 120 | 2009-12-02 |

Standard (CCV-3)

QC Batch: 65725

Date Analyzed: 2009-12-02

Analyzed By: tn

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0977 | 98 | 80 - 120 | 2009-12-02 |
| Toluene | | mg/L | 0.100 | 0.0975 | 98 | 80 - 120 | 2009-12-02 |
| Ethylbenzene | | mg/L | 0.100 | 0.0962 | 96 | 80 - 120 | 2009-12-02 |

continued ...

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 24 of 25
Chavez Co., NM

standard continued ...

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Xylene | | mg/L | 0.300 | 0.286 | 95 | 80 - 120 | 2009-12-02 |

Standard (ICV-1)

QC Batch: 65745

Date Analyzed: 2009-12-03

Analyzed By: RR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium | | mg/L | 50.0 | 52.2 | 104 | 90 - 110 | 2009-12-03 |
| Dissolved Potassium | | mg/L | 50.0 | 51.2 | 102 | 90 - 110 | 2009-12-03 |
| Dissolved Magnesium | | mg/L | 50.0 | 52.4 | 105 | 90 - 110 | 2009-12-03 |
| Dissolved Sodium | | mg/L | 50.0 | 50.5 | 101 | 90 - 110 | 2009-12-03 |

Standard (CCV-1)

QC Batch: 65745

Date Analyzed: 2009-12-03

Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium | | mg/L | 50.0 | 52.4 | 105 | 90 - 110 | 2009-12-03 |
| Dissolved Potassium | | mg/L | 50.0 | 49.7 | 99 | 90 - 110 | 2009-12-03 |
| Dissolved Magnesium | | mg/L | 50.0 | 52.4 | 105 | 90 - 110 | 2009-12-03 |
| Dissolved Sodium | | mg/L | 50.0 | 50.5 | 101 | 90 - 110 | 2009-12-03 |

Standard (CCV-1)

QC Batch: 65798

Date Analyzed: 2009-12-06

Analyzed By: tn

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.101 | 101 | 80 - 120 | 2009-12-06 |
| Toluene | | mg/L | 0.100 | 0.0993 | 99 | 80 - 120 | 2009-12-06 |
| Ethylbenzene | | mg/L | 0.100 | 0.0981 | 98 | 80 - 120 | 2009-12-06 |
| Xylene | | mg/L | 0.300 | 0.291 | 97 | 80 - 120 | 2009-12-06 |

Standard (CCV-2)

QC Batch: 65798

Date Analyzed: 2009-12-06

Analyzed By: tn

Report Date: December 7, 2009
115-6403134A

Work Order: 9112515
Celero/Rock Queen

Page Number: 25 of 25
Chavez Co., NM

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.102 | 102 | 80 - 120 | 2009-12-06 |
| Toluene | | mg/L | 0.100 | 0.101 | 101 | 80 - 120 | 2009-12-06 |
| Ethylbenzene | | mg/L | 0.100 | 0.0995 | 100 | 80 - 120 | 2009-12-06 |
| Xylene | | mg/L | 0.300 | 0.297 | 99 | 80 - 120 | 2009-12-06 |

Order #: 9112515

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 1

**TETRA TECH**

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

Caleco

SITE MANAGER:

Jeff Kindley

PROJECT NO.:

115-6403134A

PROJECT NAME:

Caleco / Rock Canyon
CHWZEEU NTALAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHOD

STEX 8021B

TPH 8015 MOD. TX1005 (Ext. to C35)

PAH 8270

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8240/8260/624

GC/MS Semi. Vol. 8270/625

PCB's 8080/608

Pest. 803/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations (pH/TDS)

RELINQUISHED BY: (Signature)

Date:

11/25/09

Time:

10:12

RECEIVED BY: (Signature)

Date:

11/25/09

Time:

10:10

SAMPLED BY: (Print & Initial)

Date:

11/25/09

RELINQUISHED BY: (Signature)

Date:

11/25/09

Time:

10:12

RECEIVED BY: (Signature)

Date:

11/25/09

Time:

10:10

SAMPLE SHIPPED BY: (Circle)

Date:

11/25/09

RELINQUISHED BY: (Signature)

Date:

11/25/09

Time:

10:12

RECEIVED BY: (Signature)

Date:

11/25/09

Time:

10:10

FEDEX BUS
HAND DELIVERED UPS

AIRBILL #:

OTHER:

RECEIVING LABORATORY:

ADDRESS:

CITY:

STATE:

ZIP:

CONTACT:

PHONE:

RECEIVED BY: (Signature)

Cant Fox

(Contact) 5.6

DATE:

11-30-09

TIME:

9:00 AM 6:00

SAMPLE CONDITION WHEN RECEIVED:

3.2°C intact

REMARKS:

Midland-BTEX Chloride, Anions, pH, TDS

Dubach-Cations Hardness 3

Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

LS 273253516



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX

El Paso: T104704221-08-TX

Midland: T104704392-08-TX

LELAP-02003

LELAP-02002

Kansas E-10317

Analytical and Quality Control Report

Jeff Kindley
Tetra Tech
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: July 27, 2010

Work Order: 10071407



Project Location: Chavez County, NM
Project Name: Celero/Rock Queen SWD #1
Project Number: 115-6403134

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 237430 | MW-1 | water | 2010-07-13 | 14:40 | 2010-07-14 |
| 237431 | MW-2 | water | 2010-07-13 | 14:45 | 2010-07-14 |
| 237432 | MW-3 | water | 2010-07-13 | 14:50 | 2010-07-14 |
| 237433 | MW-4 | water | 2010-07-13 | 14:55 | 2010-07-14 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael Abel

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Celero/Rock Queen SWD #1 were received by TraceAnalysis, Inc. on 2010-07-14 and assigned to work order 10071407. Samples for work order 10071407 were received intact without headspace and at a temperature of 3.9 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|----------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 61451 | 2010-07-14 at 16:00 | 71724 | 2010-07-14 at 16:42 |
| Chloride (IC) | E 300.0 | 61480 | 2010-07-15 at 08:52 | 71927 | 2010-07-15 at 14:25 |
| SO4 (IC) | E 300.0 | 61480 | 2010-07-15 at 08:52 | 71927 | 2010-07-15 at 14:25 |
| TDS | SM 2540C | 61516 | 2010-07-15 at 10:29 | 72039 | 2010-07-26 at 12:30 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10071407 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: July 27, 2010
115-6403134

Work Order: 10071407
Celero/Rock Queen SWD #1

Page Number: 4 of 14
Chavez County, NM

Analytical Report

Sample: 237430 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 71724
Prep Batch: 61451

Analytical Method: S 8021B
Date Analyzed: 2010-07-14
Sample Preparation: 2010-07-14

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | 0.00310 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0837 | mg/L | 1 | 0.100 | 84 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0769 | mg/L | 1 | 0.100 | 77 | 51.1 - 128 |

Sample: 237430 - MW-1

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 71927
Prep Batch: 61480

Analytical Method: E 300.0
Date Analyzed: 2010-07-15
Sample Preparation: 2010-07-15

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 155000 | mg/L | 500 | 2.50 |

Sample: 237430 - MW-1

Laboratory: Midland
Analysis: SO4 (IC)
QC Batch: 71927
Prep Batch: 61480

Analytical Method: E 300.0
Date Analyzed: 2010-07-15
Sample Preparation: 2010-07-15

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 1530 | mg/L | 50 | 2.50 |

Report Date: July 27, 2010
115-6403134

Work Order: 10071407
Celero/Rock Queen SWD #1

Page Number: 5 of 14
Chavez County, NM

Sample: 237430 - MW-1

Laboratory: Midland
Analysis: TDS
QC Batch: 72039
Prep Batch: 61516

Analytical Method: SM 2540C
Date Analyzed: 2010-07-26
Sample Preparation: 2010-07-16

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 225000 | mg/L | 100 | 10.0 |

Sample: 237431 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 71724
Prep Batch: 61451

Analytical Method: S 8021B
Date Analyzed: 2010-07-14
Sample Preparation: 2010-07-14

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0877 | mg/L | 1 | 0.100 | 88 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0758 | mg/L | 1 | 0.100 | 76 | 51.1 - 128 |

Sample: 237431 - MW-2

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 71927
Prep Batch: 61480

Analytical Method: E 300.0
Date Analyzed: 2010-07-15
Sample Preparation: 2010-07-15

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 43200 | mg/L | 5000 | 2.50 |

Report Date: July 27, 2010
115-6403134

Work Order: 10071407
Celero/Rock Queen SWD #1

Page Number: 6 of 14
Chavez County, NM

Sample: 237431 - MW-2

Laboratory: Midland
Analysis: SO4 (IC)
QC Batch: 71927
Prep Batch: 61480

Analytical Method: E 300.0
Date Analyzed: 2010-07-15
Sample Preparation: 2010-07-15

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 652 | mg/L | 50 | 2.50 |

Sample: 237431 - MW-2

Laboratory: Midland
Analysis: TDS
QC Batch: 72039
Prep Batch: 61516

Analytical Method: SM 2540C
Date Analyzed: 2010-07-26
Sample Preparation: 2010-07-16

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 72700 | mg/L | 100 | 10.0 |

Sample: 237432 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 71724
Prep Batch: 61451

Analytical Method: S 8021B
Date Analyzed: 2010-07-14
Sample Preparation: 2010-07-14

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | 1 | 0.0651 | mg/L | 1 | 0.100 | 65 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0568 | mg/L | 1 | 0.100 | 57 | 51.1 - 128 |

¹SPECIAL-TFT is out of control limits due to an unknown anomaly. However, 4-BFB is within control limits and shows the method to be in control. •

Report Date: July 27, 2010
115-6403134

Work Order: 10071407
Celero/Rock Queen SWD #1

Page Number: 7 of 14
Chavez County, NM

Sample: 237432 - MW-3

| | | | | | |
|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | Chloride (IC) | Date Analyzed: | 2010-07-15 | Analyzed By: | AR |
| QC Batch: | 71927 | Sample Preparation: | 2010-07-15 | Prepared By: | AR |
| Prep Batch: | 61480 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 73200 | mg/L | 5000 | 2.50 |

Sample: 237432 - MW-3

| | | | | | |
|-------------|----------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | SO4 (IC) | Date Analyzed: | 2010-07-15 | Analyzed By: | AR |
| QC Batch: | 71927 | Sample Preparation: | 2010-07-15 | Prepared By: | AR |
| Prep Batch: | 61480 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 931 | mg/L | 50 | 2.50 |

Sample: 237432 - MW-3

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | SM 2540C | Prep Method: | N/A |
| Analysis: | TDS | Date Analyzed: | 2010-07-26 | Analyzed By: | AR |
| QC Batch: | 72039 | Sample Preparation: | 2010-07-16 | Prepared By: | AR |
| Prep Batch: | 61516 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 150000 | mg/L | 100 | 10.0 |

Sample: 237433 - MW-4

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Midland | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2010-07-14 | Analyzed By: | AG |
| QC Batch: | 71724 | Sample Preparation: | 2010-07-14 | Prepared By: | AG |
| Prep Batch: | 61451 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |

continued ...

Report Date: July 27, 2010
115-6403134

Work Order: 10071407
Celero/Rock Queen SWD #1

Page Number: 8 of 14
Chavez County, NM

sample 237433 continued ...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0828 | mg/L | 1 | 0.100 | 83 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0723 | mg/L | 1 | 0.100 | 72 | 51.1 - 128 |

Sample: 237433 - MW-4

| | | | |
|-------------------------|--------------------------------|------------------|--|
| Laboratory: Midland | | | |
| Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A | |
| QC Batch: 71927 | Date Analyzed: 2010-07-15 | Analyzed By: AR | |
| Prep Batch: 61480 | Sample Preparation: 2010-07-15 | Prepared By: AR | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 85800 | mg/L | 5000 | 2.50 |

Sample: 237433 - MW-4

| | | | |
|---------------------|--------------------------------|------------------|--|
| Laboratory: Midland | | | |
| Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A | |
| QC Batch: 71927 | Date Analyzed: 2010-07-15 | Analyzed By: AR | |
| Prep Batch: 61480 | Sample Preparation: 2010-07-15 | Prepared By: AR | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 1540 | mg/L | 50 | 2.50 |

Sample: 237433 - MW-4

| | | | |
|---------------------|--------------------------------|------------------|--|
| Laboratory: Midland | | | |
| Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A | |
| QC Batch: 72039 | Date Analyzed: 2010-07-26 | Analyzed By: AR | |
| Prep Batch: 61516 | Sample Preparation: 2010-07-16 | Prepared By: AR | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 159000 | mg/L | 100 | 10.0 |

Report Date: July 27, 2010
115-6403134

Work Order: 10071407
Celero/Rock Queen SWD #1

Page Number: 9 of 14
Chavez County, NM

Method Blank (1) QC Batch: 71724

QC Batch: 71724
Prep Batch: 61451

Date Analyzed: 2010-07-14
QC Preparation: 2010-07-14

Analyzed By: AG
Prepared By: AG

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| Benzene | | <0.000600 | mg/L | 0.001 |
| Toluene | | <0.000600 | mg/L | 0.001 |
| Ethylbenzene | | <0.000800 | mg/L | 0.001 |
| Xylene | | <0.000767 | mg/L | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0973 | mg/L | 1 | 0.100 | 97 | 70.2 - 118 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0848 | mg/L | 1 | 0.100 | 85 | 47.3 - 116 |

Method Blank (1) QC Batch: 71927

QC Batch: 71927
Prep Batch: 61480

Date Analyzed: 2010-07-15
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Chloride | | <0.265 | mg/L | 2.5 |

Method Blank (1) QC Batch: 71927

QC Batch: 71927
Prep Batch: 61480

Date Analyzed: 2010-07-15
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Sulfate | | <0.177 | mg/L | 2.5 |

Method Blank (1) QC Batch: 72039

QC Batch: 72039
Prep Batch: 61516

Date Analyzed: 2010-07-26
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|------------------------|------|---------------|-------|----|
| Total Dissolved Solids | | 10.0 | mg/L | 10 |

Report Date: July 27, 2010
115-6403134

Work Order: 10071407
Celero/Rock Queen SWD #1

Page Number: 10 of 14
Chavez County, NM

Duplicates (2) Duplicated Sample: 237468

QC Batch: 72039
Prep Batch: 61516

Date Analyzed: 2010-07-26
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids | 109000 | 5910 | mg/L | 100 | 7 | 10 |
| Total Dissolved Solids | 109000 | 102000 | mg/L | 100 | 7 | 10 |

Laboratory Control Spike (LCS-1)

QC Batch: 71724
Prep Batch: 61451

Date Analyzed: 2010-07-14
QC Preparation: 2010-07-14

Analyzed By: AG
Prepared By: AG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------|-------|------|--------------|---------------|------|------------|
| Benzene | 0.100 | mg/L | 1 | 0.100 | <0.000600 | 100 | 82.9 - 108 |
| Toluene | 0.0992 | mg/L | 1 | 0.100 | <0.000600 | 99 | 82.7 - 107 |
| Ethylbenzene | 0.0949 | mg/L | 1 | 0.100 | <0.000800 | 95 | 78.8 - 106 |
| Xylene | 0.287 | mg/L | 1 | 0.300 | <0.000767 | 96 | 79.3 - 106 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | 0.101 | mg/L | 1 | 0.100 | <0.000600 | 101 | 82.9 - 108 | 1 | 20 |
| Toluene | 0.101 | mg/L | 1 | 0.100 | <0.000600 | 101 | 82.7 - 107 | 2 | 20 |
| Ethylbenzene | 0.0967 | mg/L | 1 | 0.100 | <0.000800 | 97 | 78.8 - 106 | 2 | 20 |
| Xylene | 0.292 | mg/L | 1 | 0.300 | <0.000767 | 97 | 79.3 - 106 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | 0.103 | 0.0996 | mg/L | 1 | 0.100 | 103 | 100 | 67.3 - 113 |
| 4-Bromofluorobenzene (4-BFB) | 0.0966 | 0.0941 | mg/L | 1 | 0.100 | 97 | 94 | 68.2 - 124 |

Laboratory Control Spike (LCS-1)

QC Batch: 71927
Prep Batch: 61480

Date Analyzed: 2010-07-15
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|
| Chloride | 25.5 | mg/L | 1 | 25.0 | <0.265 | 102 | 90 - 110 |

Report Date: July 27, 2010
115-6403134

Work Order: 10071407
Celero/Rock Queen SWD #1

Page Number: 11 of 14
Chavez County, NM

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | 25.3 | mg/L | 1 | 25.0 | <0.265 | 101 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 71927
Prep Batch: 61480

Date Analyzed: 2010-07-15
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | 22.5 | mg/L | 1 | 25.0 | <0.177 | 90 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | 22.5 | mg/L | 1 | 25.0 | <0.177 | 90 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72039
Prep Batch: 61516

Date Analyzed: 2010-07-26
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids | 1030 | mg/L | 1 | 1000 | <9.75 | 103 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids | 1040 | mg/L | 1 | 1000 | <9.75 | 104 | 90 - 110 | 1 | 10 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 237430

QC Batch: 71724
Prep Batch: 61451

Date Analyzed: 2010-07-14
QC Preparation: 2010-07-14

Analyzed By: AG
Prepared By: AG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---------------------|-------|------|--------------|---------------|------|------------|
| Benzene | 0.100 | mg/L | 1 | 0.100 | 0.0031 | 97 | 77.9 - 114 |
| Toluene | 0.0800 | mg/L | 1 | 0.100 | <0.000600 | 80 | 78.3 - 111 |
| Ethylbenzene | ² 0.0695 | mg/L | 1 | 0.100 | <0.000800 | 70 | 75.3 - 110 |
| Xylene | ³ 0.211 | mg/L | 1 | 0.300 | <0.000767 | 70 | 75.7 - 109 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | 0.0908 | mg/L | 1 | 0.100 | 0.0031 | 88 | 77.9 - 114 | 10 | 20 |
| Toluene | ⁴ 0.0719 | mg/L | 1 | 0.100 | <0.000600 | 72 | 78.3 - 111 | 11 | 20 |
| Ethylbenzene | ⁵ 0.0623 | mg/L | 1 | 0.100 | <0.000800 | 62 | 75.3 - 110 | 11 | 20 |
| Xylene | ⁶ 0.189 | mg/L | 1 | 0.300 | <0.000767 | 63 | 75.7 - 109 | 11 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|------------------------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT) | ^{7 8} 0.0434 | 0.0551 | mg/L | 1 | 0.1 | 43 | 55 | 68.3 - 107 |
| 4-Bromofluorobenzene (4-BFB) | ^{9 10} 0.0418 | 0.0525 | mg/L | 1 | 0.1 | 42 | 52 | 60.1 - 135 |

Matrix Spike (MS-1) Spiked Sample: 237433

QC Batch: 71927
Prep Batch: 61480

Date Analyzed: 2010-07-15
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|----------------------|-------|------|--------------|---------------|------|------------|
| Chloride | ¹¹ 106000 | mg/L | 50 | 1380 | <13.2 | 7709 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|----------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | ¹² 106000 | mg/L | 50 | 1380 | <13.2 | 7709 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

³Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

⁵MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

⁶MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

⁷Surrogate TFT out due to matrix interference. Sample was not reran due to lack of sample.

⁸Surrogate TFT out due to matrix interference. Sample was not reran due to lack of sample.

⁹Surrogate 4-BFB out due to matrix interference. Sample was not reran due to lack of sample.

¹⁰Surrogate 4-BFB out due to matrix interference. Sample was not reran due to lack of sample.

¹¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹²MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

Report Date: July 27, 2010
115-6403134

Work Order: 10071407
Celero/Rock Queen SWD #1

Page Number: 13 of 14
Chavez County, NM

Matrix Spike (MS-1) Spiked Sample: 237433

QC Batch: 71927
Prep Batch: 61480

Date Analyzed: 2010-07-15
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Param | | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | ¹³ | 2640 | mg/L | 50 | 1380 | 1540 | 80 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | ¹⁴ | 2620 | mg/L | 50 | 1380 | 1540 | 78 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-1)

QC Batch: 71724

Date Analyzed: 2010-07-14

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0986 | 99 | 80 - 120 | 2010-07-14 |
| Toluene | | mg/L | 0.100 | 0.0974 | 97 | 80 - 120 | 2010-07-14 |
| Ethylbenzene | | mg/L | 0.100 | 0.0912 | 91 | 80 - 120 | 2010-07-14 |
| Xylene | | mg/L | 0.300 | 0.274 | 91 | 80 - 120 | 2010-07-14 |

Standard (CCV-2)

QC Batch: 71724

Date Analyzed: 2010-07-14

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0999 | 100 | 80 - 120 | 2010-07-14 |
| Toluene | | mg/L | 0.100 | 0.100 | 100 | 80 - 120 | 2010-07-14 |
| Ethylbenzene | | mg/L | 0.100 | 0.0966 | 97 | 80 - 120 | 2010-07-14 |
| Xylene | | mg/L | 0.300 | 0.292 | 97 | 80 - 120 | 2010-07-14 |

Standard (ICV-1)

QC Batch: 71927

Date Analyzed: 2010-07-15

Analyzed By: AR

¹³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹⁴MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

Report Date: July 27, 2010
115-6403134

Work Order: 10071407
Celero/Rock Queen SWD #1

Page Number: 14 of 14
Chavez County, NM

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | mg/L | 25.0 | 26.8 | 107 | 90 - 110 | 2010-07-15 |

Standard (ICV-1)

QC Batch: 71927

Date Analyzed: 2010-07-15

Analyzed By: AR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 26.8 | 107 | 90 - 110 | 2010-07-15 |

Standard (CCV-1)

QC Batch: 71927

Date Analyzed: 2010-07-15

Analyzed By: AR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | mg/L | 25.0 | 26.8 | 107 | 90 - 110 | 2010-07-15 |

Standard (CCV-1)

QC Batch: 71927

Date Analyzed: 2010-07-15

Analyzed By: AR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 26.2 | 105 | 90 - 110 | 2010-07-15 |

Order #: 6071407

Analysis Request of Chain of Custody Record

PAGE: / OF: /

**TETRA TECH**

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

Celero

SITE MANAGER:

Jeff Kindley

PROJECT NO.:

116-6403134

PROJECT NAME:

Celero / Rock Quarry SWD #1

Charles G. NM

SAMPLE IDENTIFICATION

LAB I.D.
NUMBERDATE
2010

TIME

MATRIX

COMP.

GRAB

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHOD

TPH 8015 MOD. TX1005 (Ext. to C35)

PAH 8270

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8240/8260/824

GC/MS Semi. Vol. 8270/825

PCB's 8080/808

Pest. 808/808

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Sulfate

RELINQUISHED BY: (Signature)

Date: 7/14/10

Time: 9:25

RECEIVED BY: (Signature)

Date: 7/14/10

Time: 9:25

SAMPLED BY: (Print & Initial)

J/GP

Date: 7/13/10

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

FEDEX
HAND DELIVEREDBUS
UPS

AIRBILL #:

OTHER:

RECEIVING LABORATORY:

Tracy

ADDRESS:

CITY: Midland

STATE: TX

ZIP:

CONTACT:

PHONE:

DATE:

RECEIVED BY: (Signature)

Date:

Time:

TETRA TECH CONTACT PERSON:

Jeff Kindley

Results by:

RUSH Charges
Authorized:

Yes

No

SAMPLE CONDITION WHEN RECEIVED:

3.9°C intact

REMARKS:

All tests Midland

Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

TABLE 3b
Groundwater Inorganic Analyses - June 2010
 ConocoPhillips - South Cowden Unit
 Ector County, Texas

| Sample Location | Date Sampled | Results reported in milligrams per liter (mg/L) | | | | | | | | | | |
|--|--------------|---|------|------|-------|--|----------|---------|--------------|------------------------|----------------------|------------------------|
| | | Total Metals by EPA Method 6010B | | | | General Chemistry by EPA Method E300.0 | | | | EPA Method E310.1 | | EPA Method 2540 C |
| | | Ca | Mg | K | Na | Bromide | Chloride | Sulfate | Nitrate as N | Bicarbonate Alkalinity | Carbonate Alkalinity | Total Dissolved Solids |
| MW-1 | 06/22/10 | | | | | | 531 | | | | | 1,680 |
| MW-2 | 06/21/10 | | | | | | 177 | | | | | 754 |
| MW-4 | 06/22/10 | 694 | 127 | 55.1 | 3,640 | 17.2 | 7,040 | 547 | 18.5 | 39 | ND | 15,800 |
| MW-5 | 06/22/10 | 241 | 45.2 | 23.1 | 1,110 | 5.57 | 1,960 | 257 | 9.74 | 49 | ND | 4,690 |
| MW-6 | 06/21/10 | 72.2 | 13.8 | 4.29 | 43.2 | ND | 30.8 | 107 | 8.89 | 48 | ND | 499 |
| MW-7 | 06/23/10 | | | | | | 10,100 | | | | | 17,000 |
| MW-7 D | 06/23/10 | | | | | | 7,570 | | | | | 17,100 |
| MW-10a | 06/22/10 | | | | | | 991.0 | | | | | 4,080 |
| MW-10b | 06/22/10 | | | | | | 477 | | | | | 4,390 |
| MW-11 | 06/22/10 | | | | | | 797 | | | | | 2,890 |
| MW-11 D | 06/22/10 | | | | | | 789 | | | | | 2,220 |
| MW-12 | 06/23/10 | | | | | | 5,740 | | | | | 11,800 |
| MW-13 | 06/22/10 | | | | | | 2,330 | | | | | 4,360 |
| MW-15 | 06/22/10 | 160 | 29.6 | 15.5 | 745 | 3.35 | 1,430 | 243 | 9.48 | 58 | ND | 3,420 |
| MW-16 | 06/21/10 | | | | | | 402 | | | | | 1,510 |
| MW-17 | 06/22/10 | 68.2 | 14.4 | 4.69 | 55.0 | ND | 35.7 | 140 | 9.22 | 52 | ND | 528 |
| MW-18 | 06/21/10 | 82.1 | 16.4 | 6.16 | 59.1 | ND | 37.6 | 133 | 8.63 | 51 | ND | 540 |
| MW-H1 | 06/24/10 | 420 | 97.1 | 49.5 | 2,860 | 52.4 | 6,140 | 494 | 10.4 | 138 | ND | 11,000 |
| MW-H2 | 06/24/10 | 1,090 | 246 | 105 | 6,920 | 165 | 16,800 | 1,210 | 18.8 | 127 | ND | 26,800 |
| MW-H2 D | 06/24/10 | 1,080 | 235 | 101 | 6,840 | 124 | 17,600 | 959 | 15.8 | 129 | ND | 26,000 |
| MW-H3 | 06/23/10 | 226 | 31.8 | 6.6 | 158 | 1.72 | 160 | 498 | 6.32 | 203 | ND | 1,710 |
| MW-H4 | 06/24/10 | 148 | 21.9 | 5.95 | 95.4 | 3.25 | 181 | 197 | 7.08 | 200 | ND | 928 |
| MW-H5 | 06/23/10 | 237 | 24.9 | 13.1 | 92 | 1.16 | 111 | 293 | ND | 135 | ND | 1,130 |
| MW-H6 | 06/23/10 | 107 | 12.3 | 4.86 | 50.0 | 2.68 | 46.6 | 129 | 7.1 | 139 | ND | 671 |
| MW-H7 | 06/23/10 | 79.5 | 11.5 | 5.22 | 49 | 0.833 | 37.5 | 134 | 4.81 | 137 | ND | 718 |
| MW-H8 | 06/23/10 | 101 | 12.6 | 4.7 | 51.0 | ND | 48.2 | 141 | 4.76 | 152 | ND | 675 |
| EW-1 | 06/22/10 | 246 | 38.4 | 15.6 | 702 | 3.9 | 1,690 | 162 | 9.46 | 47 | ND | 4,320 |
| EW-2 | 06/21/10 | 76.7 | 15.1 | 4.47 | 48.9 | ND | 31.9 | 121 | 8.71 | 59 | ND | 493 |
| EW-3 | 06/22/10 | 132 | 23.2 | 7.68 | 315 | 1.65 | 629 | 169 | 9.23 | 45 | ND | 1,420 |
| EW-4 | 06/22/10 | 178 | 34.1 | 13.8 | 626 | 3.22 | 1,120 | 196 | 9.97 | 163 | ND | 3,340 |
| EW-4 D | 06/22/10 | 172 | 33.1 | 13.6 | 610 | 3.08 | 1,160 | 195 | 9.86 | 51 | ND | 2,830 |
| EW-M | 06/23/10 | 963 | 213 | 95 | 6,120 | 5.06 | 15,000 | 984 | 5.91 | 96 | ND | 24,100 |
| RW-M | 06/23/10 | 119 | 22.7 | 7.43 | 232 | ND | 472 | 172 | 5.1 | 149 | ND | 1,590 |
| TCEQ Standards used for Groundwater Quality Analysis | | NE | NE | NE | NE | NE | 300* | 300* | 10 | NE | NE | 1,000* |

Notes:

* = Secondary Standard
 EPA = Environmental Protection Agency
 TCEQ = Texas Commission on Environmental Quality
 NE = Not Established by TCEQ
 ND = Not detected at or above Laboratory Reporting Limit

Ca = Calcium
 Mg = Magnesium
 K = Potassium
 Na = Sodium
 N = Nitrogen

D = Duplicate Sample
 Blank fields indicate no data.



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Jeff Kindley
Tetra Tech
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: November 15, 2010

Work Order: 10101404



Project Location: Chavez County, NM
Project Name: Celero/Rock Queen SWD #1
Project Number: 115-6403134

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 247497 | MW-1 | water | 2010-10-13 | 10:15 | 2010-10-13 |
| 247498 | MW-2 | water | 2010-10-13 | 09:45 | 2010-10-13 |
| 247499 | MW-3 | water | 2010-10-13 | 09:55 | 2010-10-13 |
| 247500 | MW-4 | water | 2010-10-13 | 10:05 | 2010-10-13 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Celero/Rock Queen SWD #1 were received by TraceAnalysis, Inc. on 2010-10-13 and assigned to work order 10101404. Samples for work order 10101404 were received intact without headspace and at a temperature of 3.5 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|----------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 63840 | 2010-10-14 at 13:40 | 74557 | 2010-10-14 at 18:04 |
| Chloride (IC) | E 300.0 | 64180 | 2010-10-26 at 14:38 | 74818 | 2010-10-26 at 17:25 |
| SO4 (IC) | E 300.0 | 64638 | 2010-11-12 at 12:49 | 75341 | 2010-11-12 at 17:36 |
| TDS | SM 2540C | 63873 | 2010-10-15 at 10:25 | 74622 | 2010-10-21 at 14:52 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10101404 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 247497 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 74557
Prep Batch: 63840

Analytical Method: S 8021B
Date Analyzed: 2010-10-14
Sample Preparation: 2010-10-14

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | 0.00380 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | ¹ | 0.0618 | mg/L | 1 | 0.100 | 62 | 66.2 - 107 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0392 | mg/L | 1 | 0.100 | 39 | 39 - 138 |

Sample: 247497 - MW-1

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 74818
Prep Batch: 64180

Analytical Method: E 300.0
Date Analyzed: 2010-10-26
Sample Preparation: 2010-10-26

Prep Method: N/A
Analyzed By: PG
Prepared By: SS

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 130000 | mg/L | 10000 | 2.50 |

Sample: 247497 - MW-1

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 75341
Prep Batch: 64638

Analytical Method: E 300.0
Date Analyzed: 2010-11-12
Sample Preparation: 2010-11-12

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 1500 | mg/L | 50 | 2.50 |

¹ SPECIAL - TFT is out of control limits due to an unknown anomaly. However, 4-BFB is within control limits and shows the method to be in control. •

Report Date: November 15, 2010
115-6403134

Work Order: 10101404
Celero/Rock Queen SWD #1

Page Number: 5 of 14
Chavez County, NM

Sample: 247497 - MW-1

Laboratory: Midland

Analysis: TDS

QC Batch: 74622

Prep Batch: 63873

Analytical Method: SM 2540C

Date Analyzed: 2010-10-21

Sample Preparation: 2010-10-15

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 235000 | mg/L | 100 | 10.0 |

Sample: 247498 - MW-2

Laboratory: Midland

Analysis: BTEX

QC Batch: 74557

Prep Batch: 63840

Analytical Method: S 8021B

Date Analyzed: 2010-10-14

Sample Preparation: 2010-10-14

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | 0.00170 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | 2 | 0.0428 | mg/L | 1 | 0.100 | 43 | 66.2 - 107 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0401 | mg/L | 1 | 0.100 | 40 | 39 - 138 |

Sample: 247498 - MW-2

Laboratory: Lubbock

Analysis: Chloride (IC)

QC Batch: 74818

Prep Batch: 64180

Analytical Method: E 300.0

Date Analyzed: 2010-10-26

Sample Preparation: 2010-10-26

Prep Method: N/A

Analyzed By: PG

Prepared By: SS

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 51800 | mg/L | 5000 | 2.50 |

²SPECIAL - TFT is out of control limits due to an unknown anomaly. However, 4-BFB is within control limits and shows the method to be in control. •

Report Date: November 15, 2010
115-6403134

Work Order: 10101404
Celero/Rock Queen SWD #1

Page Number: 6 of 14
Chavez County, NM

Sample: 247498 - MW-2

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 75341
Prep Batch: 64638

Analytical Method: E 300.0
Date Analyzed: 2010-11-12
Sample Preparation: 2010-11-12

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 945 | mg/L | 50 | 2.50 |

Sample: 247498 - MW-2

Laboratory: Midland
Analysis: TDS
QC Batch: 74622
Prep Batch: 63873

Analytical Method: SM 2540C
Date Analyzed: 2010-10-21
Sample Preparation: 2010-10-15

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 108000 | mg/L | 100 | 10.0 |

Sample: 247499 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 74557
Prep Batch: 63840

Analytical Method: S 8021B
Date Analyzed: 2010-10-14
Sample Preparation: 2010-10-14

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.107 | mg/L | 1 | 0.100 | 107 | 66.2 - 107 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0507 | mg/L | 1 | 0.100 | 51 | 39 - 138 |

Report Date: November 15, 2010
115-6403134

Work Order: 10101404
Celero/Rock Queen SWD #1

Page Number: 7 of 14
Chavez County, NM

Sample: 247499 - MW-3

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 74818
Prep Batch: 64180

Analytical Method: E 300.0
Date Analyzed: 2010-10-26
Sample Preparation: 2010-10-26

Prep Method: N/A
Analyzed By: PG
Prepared By: SS

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 85500 | mg/L | 10000 | 2.50 |

Sample: 247499 - MW-3

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 75341
Prep Batch: 64638

Analytical Method: E 300.0
Date Analyzed: 2010-11-12
Sample Preparation: 2010-11-12

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 934 | mg/L | 50 | 2.50 |

Sample: 247499 - MW-3

Laboratory: Midland
Analysis: TDS
QC Batch: 74622
Prep Batch: 63873

Analytical Method: SM 2540C
Date Analyzed: 2010-10-21
Sample Preparation: 2010-10-15

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 167000 | mg/L | 100 | 10.0 |

Sample: 247500 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 74557
Prep Batch: 63840

Analytical Method: S 8021B
Date Analyzed: 2010-10-14
Sample Preparation: 2010-10-14

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|---------|
| Benzene | | 0.00150 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |

continued ...

sample 247500 continued ...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | ³ | 0.0444 | mg/L | 1 | 0.100 | 44 | 66.2 - 107 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0422 | mg/L | 1 | 0.100 | 42 | 39 - 138 |

Sample: 247500 - MW-4

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 74818
Prep Batch: 64180

Analytical Method: E 300.0
Date Analyzed: 2010-10-26
Sample Preparation: 2010-10-26

Prep Method: N/A
Analyzed By: PG
Prepared By: SS

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 93200 | mg/L | 10000 | 2.50 |

Sample: 247500 - MW-4

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 75341
Prep Batch: 64638

Analytical Method: E 300.0
Date Analyzed: 2010-11-12
Sample Preparation: 2010-11-12

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 1640 | mg/L | 50 | 2.50 |

Sample: 247500 - MW-4

Laboratory: Midland
Analysis: TDS
QC Batch: 74622
Prep Batch: 63873

Analytical Method: SM 2540C
Date Analyzed: 2010-10-21
Sample Preparation: 2010-10-15

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 175000 | mg/L | 100 | 10.0 |

³SPECIAL - TFT is out of control limits due to an unknown anomaly. However, 4-BFB is within control limits and shows the method to be in control. •

Report Date: November 15, 2010
115-6403134

Work Order: 10101404
Celero/Rock Queen SWD #1

Page Number: 9 of 14
Chavez County, NM

Method Blank (1) QC Batch: 74557

QC Batch: 74557
Prep Batch: 63840

Date Analyzed: 2010-10-14
QC Preparation: 2010-10-14

Analyzed By: AG
Prepared By: AG

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| Benzene | | <0.000400 | mg/L | 0.001 |
| Toluene | | <0.000800 | mg/L | 0.001 |
| Ethylbenzene | | <0.000400 | mg/L | 0.001 |
| Xylene | | <0.000400 | mg/L | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0893 | mg/L | 1 | 0.100 | 89 | 61.8 - 106 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0784 | mg/L | 1 | 0.100 | 78 | 48.5 - 129 |

Method Blank (1) QC Batch: 74622

QC Batch: 74622
Prep Batch: 63873

Date Analyzed: 2010-10-21
QC Preparation: 2010-10-15

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|------------------------|------|---------------|-------|----|
| Total Dissolved Solids | | 11.0 | mg/L | 10 |

Method Blank (1) QC Batch: 74818

QC Batch: 74818
Prep Batch: 64180

Date Analyzed: 2010-10-26
QC Preparation: 2010-10-26

Analyzed By: PG
Prepared By: PG

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Chloride | | <0.0350 | mg/L | 2.5 |

Method Blank (1) QC Batch: 75341

QC Batch: 75341
Prep Batch: 64638

Date Analyzed: 2010-11-12
QC Preparation: 2010-11-12

Analyzed By: PG
Prepared By: PG

Report Date: November 15, 2010
115-6403134

Work Order: 10101404
Celero/Rock Queen SWD #1

Page Number: 10 of 14
Chavez County, NM

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Sulfate | | <0.596 | mg/L | 2.5 |

Duplicates (2) Duplicated Sample: 247533

QC Batch: 74622 Date Analyzed: 2010-10-21 Analyzed By: AR
Prep Batch: 63873 QC Preparation: 2010-10-15 Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---------------------|------------------|-------|----------|-----|--------------|
| Total Dissolved Solids | 46600 | 11700 | mg/L | 100 | 4 | 10 |
| Total Dissolved Solids | 46600 | 48400 | mg/L | 100 | 4 | 10 |

Laboratory Control Spike (LCS-1)

QC Batch: 74557 Date Analyzed: 2010-10-14 Analyzed By: AG
Prep Batch: 63840 QC Preparation: 2010-10-14 Prepared By: AG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | 0.0939 | mg/L | 1 | 0.100 | <0.000400 | 94 | 80.7 - 117 |
| Toluene | 0.0947 | mg/L | 1 | 0.100 | <0.000800 | 95 | 80.5 - 117 |
| Ethylbenzene | 0.0947 | mg/L | 1 | 0.100 | <0.000400 | 95 | 79.2 - 117 |
| Xylene | 0.277 | mg/L | 1 | 0.300 | <0.000400 | 92 | 74.1 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | 0.0950 | mg/L | 1 | 0.100 | <0.000400 | 95 | 80.7 - 117 | 1 | 20 |
| Toluene | 0.0975 | mg/L | 1 | 0.100 | <0.000800 | 98 | 80.5 - 117 | 3 | 20 |
| Ethylbenzene | 0.0968 | mg/L | 1 | 0.100 | <0.000400 | 97 | 79.2 - 117 | 2 | 20 |
| Xylene | 0.286 | mg/L | 1 | 0.300 | <0.000400 | 95 | 74.1 - 120 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 0.0875 | 0.0904 | mg/L | 1 | 0.100 | 88 | 90 | 72.5 - 126 |
| 4-Bromofluorobenzene (4-BFB) | 0.0805 | 0.0847 | mg/L | 1 | 0.100 | 80 | 85 | 48.3 - 135 |

Laboratory Control Spike (LCS-1)

QC Batch: 74622 Date Analyzed: 2010-10-21 Analyzed By: AR
Prep Batch: 63873 QC Preparation: 2010-10-15 Prepared By: AR

Report Date: November 15, 2010
115-6403134

Work Order: 10101404
Celero/Rock Queen SWD #1

Page Number: 11 of 14
Chavez County, NM

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids | 979 | mg/L | 1 | 1000 | <9.75 | 98 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids | 994 | mg/L | 1 | 1000 | <9.75 | 99 | 90 - 110 | 2 | 10 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 74818
Prep Batch: 64180

Date Analyzed: 2010-10-26
QC Preparation: 2010-10-26

Analyzed By: PG
Prepared By: PG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | 24.0 | mg/L | 1 | 25.0 | <0.0350 | 96 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | 23.9 | mg/L | 1 | 25.0 | <0.0350 | 96 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75341
Prep Batch: 64638

Date Analyzed: 2010-11-12
QC Preparation: 2010-11-12

Analyzed By: PG
Prepared By: PG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | 24.8 | mg/L | 1 | 25.0 | <0.596 | 99 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | 25.8 | mg/L | 1 | 25.0 | <0.596 | 103 | 90 - 110 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: November 15, 2010
115-6403134

Work Order: 10101404
Celero/Rock Queen SWD #1

Page Number: 12 of 14
Chavez County, NM

Matrix Spike (MS-1) Spiked Sample: 247532

QC Batch: 74557
Prep Batch: 63840

Date Analyzed: 2010-10-14
QC Preparation: 2010-10-14

Analyzed By: AG
Prepared By: AG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | 0.107 | mg/L | 1 | 0.100 | 0.0048 | 102 | 60.9 - 132 |
| Toluene | 0.0929 | mg/L | 1 | 0.100 | <0.000800 | 93 | 65.7 - 129 |
| Ethylbenzene | 0.0881 | mg/L | 1 | 0.100 | <0.000400 | 88 | 51.5 - 134 |
| Xylene | 0.332 | mg/L | 1 | 0.300 | <0.000400 | 111 | 62.6 - 124 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | ⁴ 0.0817 | mg/L | 1 | 0.100 | 0.0048 | 77 | 60.9 - 132 | 27 | 20 |
| Toluene | ⁵ 0.0712 | mg/L | 1 | 0.100 | <0.000800 | 71 | 65.7 - 129 | 26 | 20 |
| Ethylbenzene | ⁶ 0.0645 | mg/L | 1 | 0.100 | <0.000400 | 64 | 51.5 - 134 | 31 | 20 |
| Xylene | 0.283 | mg/L | 1 | 0.300 | <0.000400 | 94 | 62.6 - 124 | 16 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|----------------------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT) | ^{7 8} 0.317 | 0.331 | mg/L | 1 | 0.1 | 317 | 331 | 75.1 - 117 |
| 4-Bromofluorobenzene (4-BFB) | 0.0577 | 0.0585 | mg/L | 1 | 0.1 | 58 | 58 | 31.3 - 143 |

Matrix Spike (MS-1) Spiked Sample: 247502

QC Batch: 74818
Prep Batch: 64180

Date Analyzed: 2010-10-26
QC Preparation: 2010-10-26

Analyzed By: PG
Prepared By: PG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|-----------|-------|-------|--------------|---------------|------|------------|
| Chloride | 244000 | mg/L | 10000 | 250000 | 16700 | 91 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|------------|-------|-------|--------------|---------------|------|------------|-----|-----------|
| Chloride | 248000 | mg/L | 10000 | 250000 | 16700 | 92 | 90 - 110 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

⁴MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁵MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁶MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁷High surrogate recovery due to peak interference.

⁸High surrogate recovery due to peak interference.

Report Date: November 15, 2010
115-6403134

Work Order: 10101404
Celero/Rock Queen SWD #1

Page Number: 13 of 14
Chavez County, NM

Matrix Spike (MS-1) Spiked Sample: 250076

QC Batch: 75341
Prep Batch: 64638

Date Analyzed: 2010-11-12
QC Preparation: 2010-11-12

Analyzed By: PG
Prepared By: PG

| Param | | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | ⁹ | 274 | mg/L | 5 | 125 | <2.98 | 219 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | ¹⁰ | 278 | mg/L | 5 | 125 | <2.98 | 222 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-1)

QC Batch: 74557

Date Analyzed: 2010-10-14

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0953 | 95 | 80 - 120 | 2010-10-14 |
| Toluene | | mg/L | 0.100 | 0.0980 | 98 | 80 - 120 | 2010-10-14 |
| Ethylbenzene | | mg/L | 0.100 | 0.0945 | 94 | 80 - 120 | 2010-10-14 |
| Xylene | | mg/L | 0.300 | 0.280 | 93 | 80 - 120 | 2010-10-14 |

Standard (CCV-2)

QC Batch: 74557

Date Analyzed: 2010-10-14

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0941 | 94 | 80 - 120 | 2010-10-14 |
| Toluene | | mg/L | 0.100 | 0.0958 | 96 | 80 - 120 | 2010-10-14 |
| Ethylbenzene | | mg/L | 0.100 | 0.0935 | 94 | 80 - 120 | 2010-10-14 |
| Xylene | | mg/L | 0.300 | 0.275 | 92 | 80 - 120 | 2010-10-14 |

Standard (CCV-1)

QC Batch: 74818

Date Analyzed: 2010-10-26

Analyzed By: PG

⁹matrix spikes run with batch but spiked sample was reported in another run •

¹⁰matrix spikes run with batch but spiked sample was reported in another run •

Report Date: November 15, 2010
115-6403134

Work Order: 10101404
Celero/Rock Queen SWD #1

Page Number: 14 of 14
Chavez County, NM

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | mg/L | 25.0 | 24.2 | 97 | 90 - 110 | 2010-10-26 |

Standard (CCV-2)

QC Batch: 74818

Date Analyzed: 2010-10-26

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | mg/L | 25.0 | 23.6 | 94 | 90 - 110 | 2010-10-26 |

Standard (CCV-1)

QC Batch: 75341

Date Analyzed: 2010-11-12

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 24.3 | 97 | 90 - 110 | 2010-11-12 |

Standard (CCV-2)

QC Batch: 75341

Date Analyzed: 2010-11-12

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 25.8 | 103 | 90 - 110 | 2010-11-12 |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Jeff Kindley
Tetra Tech
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: February 7, 2011

Work Order: 11012135



Project Name: Celero/Rock Queen Saltwater Plant #1
Project Number: 115-6403134

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 255925 | MW-1 | water | 2011-01-19 | 17:58 | 2011-01-21 |
| 255926 | MW-2 | water | 2011-01-19 | 17:50 | 2011-01-21 |
| 255927 | MW-3 | water | 2011-01-19 | 17:30 | 2011-01-21 |
| 255928 | MW-4 | water | 2011-01-19 | 18:10 | 2011-01-21 |
| 255929 | MW-5 | water | 2011-01-19 | 18:05 | 2011-01-21 |
| 255930 | MW-6 | water | 2011-01-19 | 17:43 | 2011-01-21 |
| 255931 | MW-7 | water | 2011-01-19 | 17:35 | 2011-01-21 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive style with a large, stylized 'M' and 'A'.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Samples for project Celero/Rock Queen Saltwater Plant #1 were received by TraceAnalysis, Inc. on 2011-01-21 and assigned to work order 11012135. Samples for work order 11012135 were received intact without headspace and at a temperature of 12.5 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|----------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 66196 | 2011-01-25 at 10:00 | 77170 | 2011-01-25 at 14:57 |
| BTEX | S 8021B | 66223 | 2011-01-27 at 10:00 | 77205 | 2011-01-27 at 11:06 |
| Chloride (IC) | E 300.0 | 66402 | 2011-02-04 at 11:18 | 77415 | 2011-02-04 at 15:32 |
| SO4 (IC) | E 300.0 | 66402 | 2011-02-04 at 11:18 | 77415 | 2011-02-04 at 15:32 |
| SO4 (IC) | E 300.0 | 66413 | 2011-02-06 at 10:00 | 77426 | 2011-02-06 at 12:17 |
| TDS | SM 2540C | 66164 | 2011-01-25 at 12:00 | 77317 | 2011-02-01 at 15:04 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11012135 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 255925 - MW-1

Laboratory: Midland

Analysis: BTEX

QC Batch: 77205

Prep Batch: 66223

Analytical Method: S 8021B

Date Analyzed: 2011-01-27

Sample Preparation: 2011-01-27

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | 0.0116 | mg/L | 1 | 0.00100 |
| Toluene | | 0.00590 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | ¹ | 0.0447 | mg/L | 1 | 0.100 | 45 | 75.4 - 119.4 |
| 4-Bromofluorobenzene (4-BFB) | ² | 0.0396 | mg/L | 1 | 0.100 | 40 | 78.6 - 122.8 |

Sample: 255925 - MW-1

Laboratory: Lubbock

Analysis: Chloride (IC)

QC Batch: 77415

Prep Batch: 66402

Analytical Method: E 300.0

Date Analyzed: 2011-02-04

Sample Preparation: 2011-02-04

Prep Method: N/A

Analyzed By: PG

Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 132000 | mg/L | 10000 | 2.50 |

Sample: 255925 - MW-1

Laboratory: Lubbock

Analysis: SO4 (IC)

QC Batch: 77426

Prep Batch: 66413

Analytical Method: E 300.0

Date Analyzed: 2011-02-06

Sample Preparation: 2011-02-06

Prep Method: N/A

Analyzed By: PG

Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 1940 | mg/L | 100 | 2.50 |

¹Surrogate TFT out due to matrix interference. Sample was reran on 01-27-2011 to confirm matrix interference results.

²Surrogate 4-BFB out due to matrix interference. Sample was reran on 01-27-2011 to confirm matrix interference results.

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 5 of 21

Sample: 255925 - MW-1

Laboratory: Midland
Analysis: TDS
QC Batch: 77317
Prep Batch: 66164

Analytical Method: SM 2540C
Date Analyzed: 2011-02-01
Sample Preparation: 2011-01-26

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 234000 | mg/L | 100 | 10.0 |

Sample: 255926 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 77170
Prep Batch: 66196

Analytical Method: S 8021B
Date Analyzed: 2011-01-25
Sample Preparation: 2011-01-25

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0720 | mg/L | 1 | 0.100 | 72 | 75.4 - 119.4 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0673 | mg/L | 1 | 0.100 | 67 | 78.6 - 122.8 |

Sample: 255926 - MW-2

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 77415
Prep Batch: 66402

Analytical Method: E 300.0
Date Analyzed: 2011-02-04
Sample Preparation: 2011-02-04

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 66600 | mg/L | 10000 | 2.50 |

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 6 of 21

Sample: 255926 - MW-2

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 77426
Prep Batch: 66413

Analytical Method: E 300.0
Date Analyzed: 2011-02-06
Sample Preparation: 2011-02-06

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 1640 | mg/L | 100 | 2.50 |

Sample: 255926 - MW-2

Laboratory: Midland
Analysis: TDS
QC Batch: 77317
Prep Batch: 66164

Analytical Method: SM 2540C
Date Analyzed: 2011-02-01
Sample Preparation: 2011-01-26

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 133000 | mg/L | 100 | 10.0 |

Sample: 255927 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 77170
Prep Batch: 66196

Analytical Method: S 8021B
Date Analyzed: 2011-01-25
Sample Preparation: 2011-01-25

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | ³ | 0.0666 | mg/L | 1 | 0.100 | 67 | 75.4 - 119.4 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0648 | mg/L | 1 | 0.100 | 65 | 78.6 - 122.8 |

³SPECIAL - TFT is out of control limits due to an unknown anomaly. However, 4-BFB shows the method to be in control. •

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 7 of 21

Sample: 255927 - MW-3

| | | | | | |
|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | Chloride (IC) | Date Analyzed: | 2011-02-04 | Analyzed By: | PG |
| QC Batch: | 77415 | Sample Preparation: | 2011-02-04 | Prepared By: | PG |
| Prep Batch: | 66402 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 85200 | mg/L | 10000 | 2.50 |

Sample: 255927 - MW-3

| | | | | | |
|-------------|----------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | SO4 (IC) | Date Analyzed: | 2011-02-06 | Analyzed By: | PG |
| QC Batch: | 77426 | Sample Preparation: | 2011-02-06 | Prepared By: | PG |
| Prep Batch: | 66413 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 1230 | mg/L | 100 | 2.50 |

Sample: 255927 - MW-3

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | SM 2540C | Prep Method: | N/A |
| Analysis: | TDS | Date Analyzed: | 2011-02-01 | Analyzed By: | AR |
| QC Batch: | 77317 | Sample Preparation: | 2011-01-26 | Prepared By: | AR |
| Prep Batch: | 66164 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 154000 | mg/L | 100 | 10.0 |

Sample: 255928 - MW-4

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Midland | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2011-01-27 | Analyzed By: | AG |
| QC Batch: | 77205 | Sample Preparation: | 2011-01-27 | Prepared By: | AG |
| Prep Batch: | 66223 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|---------|
| Benzene | | 0.00950 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |

continued ...

sample 255928 continued ...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | ⁴ | 0.0458 | mg/L | 1 | 0.100 | 46 | 75.4 - 119.4 |
| 4-Bromofluorobenzene (4-BFB) | ⁵ | 0.0434 | mg/L | 1 | 0.100 | 43 | 78.6 - 122.8 |

Sample: 255928 - MW-4

| | | |
|-------------------------|--------------------------------|------------------|
| Laboratory: Lubbock | Analytical Method: E 300.0 | Prep Method: N/A |
| Analysis: Chloride (IC) | Date Analyzed: 2011-02-04 | Analyzed By: PG |
| QC Batch: 77415 | Sample Preparation: 2011-02-04 | Prepared By: PG |
| Prep Batch: 66402 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 93200 | mg/L | 10000 | 2.50 |

Sample: 255928 - MW-4

| | | |
|---------------------|--------------------------------|------------------|
| Laboratory: Lubbock | Analytical Method: E 300.0 | Prep Method: N/A |
| Analysis: SO4 (IC) | Date Analyzed: 2011-02-06 | Analyzed By: PG |
| QC Batch: 77426 | Sample Preparation: 2011-02-06 | Prepared By: PG |
| Prep Batch: 66413 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 2360 | mg/L | 100 | 2.50 |

Sample: 255928 - MW-4

| | | |
|---------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: SM 2540C | Prep Method: N/A |
| Analysis: TDS | Date Analyzed: 2011-02-01 | Analyzed By: AR |
| QC Batch: 77317 | Sample Preparation: 2011-01-26 | Prepared By: AR |
| Prep Batch: 66164 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 173000 | mg/L | 100 | 10.0 |

⁴Surrogate TFT out due to matrix interference. Sample was reran on 01-27-2011 to confirm matrix interference results.

⁵Surrogate 4-BFB out due to matrix interference. Sample was reran on 01-27-2011 to confirm matrix interference results.

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 9 of 21

Sample: 255929 - MW-5

Laboratory: Midland
Analysis: BTEX
QC Batch: 77170
Prep Batch: 66196

Analytical Method: S 8021B
Date Analyzed: 2011-01-25
Sample Preparation: 2011-01-25

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.104 | mg/L | 1 | 0.100 | 104 | 75.4 - 119.4 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0933 | mg/L | 1 | 0.100 | 93 | 78.6 - 122.8 |

Sample: 255929 - MW-5

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 77415
Prep Batch: 66402

Analytical Method: E 300.0
Date Analyzed: 2011-02-04
Sample Preparation: 2011-02-04

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 32400 | mg/L | 5000 | 2.50 |

Sample: 255929 - MW-5

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 77426
Prep Batch: 66413

Analytical Method: E 300.0
Date Analyzed: 2011-02-06
Sample Preparation: 2011-02-06

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 822 | mg/L | 50 | 2.50 |

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 10 of 21

Sample: 255929 - MW-5

Laboratory: Midland
Analysis: TDS
QC Batch: 77317
Prep Batch: 66164

Analytical Method: SM 2540C
Date Analyzed: 2011-02-01
Sample Preparation: 2011-01-26

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 69700 | mg/L | 100 | 10.0 |

Sample: 255930 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 77170
Prep Batch: 66196

Analytical Method: S 8021B
Date Analyzed: 2011-01-25
Sample Preparation: 2011-01-25

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.112 | mg/L | 1 | 0.100 | 112 | 75.4 - 119.4 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0961 | mg/L | 1 | 0.100 | 96 | 78.6 - 122.8 |

Sample: 255930 - MW-6

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 77415
Prep Batch: 66402

Analytical Method: E 300.0
Date Analyzed: 2011-02-04
Sample Preparation: 2011-02-04

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 3010 | mg/L | 100 | 2.50 |

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 11 of 21

Sample: 255930 - MW-6

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 77415
Prep Batch: 66402

Analytical Method: E 300.0
Date Analyzed: 2011-02-04
Sample Preparation: 2011-02-04

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | <250 | mg/L | 100 | 2.50 |

Sample: 255930 - MW-6

Laboratory: Midland
Analysis: TDS
QC Batch: 77317
Prep Batch: 66164

Analytical Method: SM 2540C
Date Analyzed: 2011-02-01
Sample Preparation: 2011-01-26

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 16500 | mg/L | 10 | 10.0 |

Sample: 255931 - MW-7

Laboratory: Midland
Analysis: BTEX
QC Batch: 77170
Prep Batch: 66196

Analytical Method: S 8021B
Date Analyzed: 2011-01-25
Sample Preparation: 2011-01-25

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0863 | mg/L | 1 | 0.100 | 86 | 75.4 - 119.4 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0789 | mg/L | 1 | 0.100 | 79 | 78.6 - 122.8 |

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 12 of 21

Sample: 255931 - MW-7

| | | | | | |
|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | Chloride (IC) | Date Analyzed: | 2011-02-04 | Analyzed By: | PG |
| QC Batch: | 77415 | Sample Preparation: | 2011-02-04 | Prepared By: | PG |
| Prep Batch: | 66402 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 35700 | mg/L | 5000 | 2.50 |

Sample: 255931 - MW-7

| | | | | | |
|-------------|----------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | SO4 (IC) | Date Analyzed: | 2011-02-06 | Analyzed By: | PG |
| QC Batch: | 77426 | Sample Preparation: | 2011-02-06 | Prepared By: | PG |
| Prep Batch: | 66413 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 478 | mg/L | 50 | 2.50 |

Sample: 255931 - MW-7

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | SM 2540C | Prep Method: | N/A |
| Analysis: | TDS | Date Analyzed: | 2011-02-01 | Analyzed By: | AR |
| QC Batch: | 77317 | Sample Preparation: | 2011-01-26 | Prepared By: | AR |
| Prep Batch: | 66164 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 75700 | mg/L | 100 | 10.0 |

Method Blank (1) QC Batch: 77170

| | | | | | |
|-------------|-------|-----------------|------------|--------------|----|
| QC Batch: | 77170 | Date Analyzed: | 2011-01-25 | Analyzed By: | AG |
| Prep Batch: | 66196 | QC Preparation: | 2011-01-25 | Prepared By: | AG |

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| Benzene | | <0.000400 | mg/L | 0.001 |
| Toluene | | <0.000300 | mg/L | 0.001 |
| Ethylbenzene | | <0.000300 | mg/L | 0.001 |

continued ...

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 13 of 21

method blank continued ...

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-------|
| Xylene | | <0.000333 | mg/L | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.111 | mg/L | 1 | 0.100 | 111 | 70.8 - 117.4 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0994 | mg/L | 1 | 0.100 | 99 | 79 - 113.4 |

Method Blank (1) QC Batch: 77205

QC Batch: 77205
Prep Batch: 66223

Date Analyzed: 2011-01-27
QC Preparation: 2011-01-27

Analyzed By: AG
Prepared By: AG

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| Benzene | | <0.000400 | mg/L | 0.001 |
| Toluene | | <0.000300 | mg/L | 0.001 |
| Ethylbenzene | | <0.000300 | mg/L | 0.001 |
| Xylene | | <0.000333 | mg/L | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.117 | mg/L | 1 | 0.100 | 117 | 70.8 - 117.4 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0998 | mg/L | 1 | 0.100 | 100 | 79 - 113.4 |

Method Blank (1) QC Batch: 77317

QC Batch: 77317
Prep Batch: 66164

Date Analyzed: 2011-02-01
QC Preparation: 2011-01-25

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|------------------------|------|---------------|-------|----|
| Total Dissolved Solids | | 10.0 | mg/L | 10 |

Method Blank (1) QC Batch: 77415

QC Batch: 77415
Prep Batch: 66402

Date Analyzed: 2011-02-04
QC Preparation: 2011-02-04

Analyzed By: PG
Prepared By: PG

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 14 of 21

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Chloride | | <0.0142 | mg/L | 2.5 |

Method Blank (1) QC Batch: 77415

QC Batch: 77415 Date Analyzed: 2011-02-04 Analyzed By: PG
Prep Batch: 66402 QC Preparation: 2011-02-04 Prepared By: PG

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Sulfate | | <0.126 | mg/L | 2.5 |

Method Blank (1) QC Batch: 77426

QC Batch: 77426 Date Analyzed: 2011-02-06 Analyzed By: PG
Prep Batch: 66413 QC Preparation: 2011-02-06 Prepared By: PG

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Sulfate | | <0.126 | mg/L | 2.5 |

Duplicates (1) Duplicated Sample: 255931

QC Batch: 77317 Date Analyzed: 2011-02-01 Analyzed By: AR
Prep Batch: 66164 QC Preparation: 2011-01-25 Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---------------------|------------------|-------|----------|-----|--------------|
| Total Dissolved Solids | 70500 | 75700 | mg/L | 100 | 7 | 10 |

Laboratory Control Spike (LCS-1)

QC Batch: 77170 Date Analyzed: 2011-01-25 Analyzed By: AG
Prep Batch: 66196 QC Preparation: 2011-01-25 Prepared By: AG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | 0.0891 | mg/L | 1 | 0.100 | <0.000400 | 89 | 76.8 - 110.3 |
| Toluene | 0.103 | mg/L | 1 | 0.100 | <0.000300 | 103 | 81 - 108.2 |
| Ethylbenzene | 0.108 | mg/L | 1 | 0.100 | <0.000300 | 108 | 78.8 - 111 |

continued ...

control spikes continued ...

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------|---------------|-------|------|-----------------|------------------|------|---------------|
| Xylene | 0.328 | mg/L | 1 | 0.300 | <0.000333 | 109 | 80.3 - 111.4 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | 0.0843 | mg/L | 1 | 0.100 | <0.000400 | 84 | 76.8 - 110.3 | 6 | 20 |
| Toluene | 0.0988 | mg/L | 1 | 0.100 | <0.000300 | 99 | 81 - 108.2 | 4 | 20 |
| Ethylbenzene | 0.103 | mg/L | 1 | 0.100 | <0.000300 | 103 | 78.8 - 111 | 5 | 20 |
| Xylene | 0.312 | mg/L | 1 | 0.300 | <0.000333 | 104 | 80.3 - 111.4 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT) | 0.112 | 0.111 | mg/L | 1 | 0.100 | 112 | 111 | 66.6 - 114.5 |
| 4-Bromofluorobenzene (4-BFB) | 0.108 | 0.106 | mg/L | 1 | 0.100 | 108 | 106 | 77.1 - 114.4 |

Laboratory Control Spike (LCS-1)

QC Batch: 77205
Prep Batch: 66223

Date Analyzed: 2011-01-27
QC Preparation: 2011-01-27

Analyzed By: AG
Prepared By: AG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | 0.0939 | mg/L | 1 | 0.100 | <0.000400 | 94 | 76.8 - 110.3 |
| Toluene | 0.102 | mg/L | 1 | 0.100 | <0.000300 | 102 | 81 - 108.2 |
| Ethylbenzene | 0.108 | mg/L | 1 | 0.100 | <0.000300 | 108 | 78.8 - 111 |
| Xylene | 0.326 | mg/L | 1 | 0.300 | <0.000333 | 109 | 80.3 - 111.4 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | 0.0896 | mg/L | 1 | 0.100 | <0.000400 | 90 | 76.8 - 110.3 | 5 | 20 |
| Toluene | 0.0970 | mg/L | 1 | 0.100 | <0.000300 | 97 | 81 - 108.2 | 5 | 20 |
| Ethylbenzene | 0.105 | mg/L | 1 | 0.100 | <0.000300 | 105 | 78.8 - 111 | 3 | 20 |
| Xylene | 0.317 | mg/L | 1 | 0.300 | <0.000333 | 106 | 80.3 - 111.4 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT) | 0.115 | 0.108 | mg/L | 1 | 0.100 | 115 | 108 | 66.6 - 114.5 |
| 4-Bromofluorobenzene (4-BFB) | 0.105 | 0.100 | mg/L | 1 | 0.100 | 105 | 100 | 77.1 - 114.4 |

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 16 of 21

Laboratory Control Spike (LCS-1)

QC Batch: 77317
Prep Batch: 66164

Date Analyzed: 2011-02-01
QC Preparation: 2011-01-25

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids | 1080 | mg/L | 1 | 1000 | <9.75 | 108 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids | 1050 | mg/L | 1 | 1000 | <9.75 | 105 | 90 - 110 | 3 | 10 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 77415
Prep Batch: 66402

Date Analyzed: 2011-02-04
QC Preparation: 2011-02-04

Analyzed By: PG
Prepared By: PG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | 23.6 | mg/L | 1 | 25.0 | <0.0142 | 94 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | 23.7 | mg/L | 1 | 25.0 | <0.0142 | 95 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 77415
Prep Batch: 66402

Date Analyzed: 2011-02-04
QC Preparation: 2011-02-04

Analyzed By: PG
Prepared By: PG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | 24.1 | mg/L | 1 | 25.0 | <0.126 | 96 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | 24.2 | mg/L | 1 | 25.0 | <0.126 | 97 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 17 of 21

Laboratory Control Spike (LCS-1)

QC Batch: 77426
Prep Batch: 66413

Date Analyzed: 2011-02-06
QC Preparation: 2011-02-06

Analyzed By: PG
Prepared By: PG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | 24.7 | mg/L | 1 | 25.0 | <0.126 | 99 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | 24.7 | mg/L | 1 | 25.0 | <0.126 | 99 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 256101

QC Batch: 77170
Prep Batch: 66196

Date Analyzed: 2011-01-25
QC Preparation: 2011-01-25

Analyzed By: AG
Prepared By: AG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|--------------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | 0.0827 | mg/L | 1 | 0.100 | <0.000400 | 83 | 68.2 - 119.3 |
| Toluene | 0.0851 | mg/L | 1 | 0.100 | <0.000300 | 85 | 74.6 - 110.8 |
| Ethylbenzene | 0.0786 | mg/L | 1 | 0.100 | <0.000300 | 79 | 71.6 - 111.9 |
| Xylene | ⁶ 0.204 | mg/L | 1 | 0.300 | <0.000333 | 68 | 71.3 - 113.4 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---------------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | 0.0777 | mg/L | 1 | 0.100 | <0.000400 | 78 | 68.2 - 119.3 | 6 | 20 |
| Toluene | 0.0814 | mg/L | 1 | 0.100 | <0.000300 | 81 | 74.6 - 110.8 | 4 | 20 |
| Ethylbenzene | ⁷ 0.0750 | mg/L | 1 | 0.100 | <0.000300 | 75 | 71.6 - 111.9 | 5 | 20 |
| Xylene | ⁸ 0.193 | mg/L | 1 | 0.300 | <0.000333 | 64 | 71.3 - 113.4 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 0.0829 | 0.0831 | mg/L | 1 | 0.1 | 83 | 83 | 68.2 - 110.1 |
| 4-Bromofluorobenzene (4-BFB) | 0.0830 | 0.0816 | mg/L | 1 | 0.1 | 83 | 82 | 78.7 - 116.2 |

⁶ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁷ MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

⁸ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 18 of 21

Matrix Spike (MS-1) Spiked Sample: 256097

QC Batch: 77415
Prep Batch: 66402

Date Analyzed: 2011-02-04
QC Preparation: 2011-02-04

Analyzed By: PG
Prepared By: PG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|--------------|-------|-------|-----------------|------------------|------|---------------|
| Chloride | 300000 | mg/L | 10000 | 250000 | 51900 | 99 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---------------|-------|-------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | 299000 | mg/L | 10000 | 250000 | 51900 | 99 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 256097

QC Batch: 77415
Prep Batch: 66402

Date Analyzed: 2011-02-04
QC Preparation: 2011-02-04

Analyzed By: PG
Prepared By: PG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|--------------|-------|-------|-----------------|------------------|------|---------------|
| Sulfate | 241000 | mg/L | 10000 | 250000 | 1900 | 96 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---------------|-------|-------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | 240000 | mg/L | 10000 | 250000 | 1900 | 95 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 255931

QC Batch: 77426
Prep Batch: 66413

Date Analyzed: 2011-02-06
QC Preparation: 2011-02-06

Analyzed By: PG
Prepared By: PG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | 1780 | mg/L | 50 | 1250 | 478 | 104 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | 1790 | mg/L | 50 | 1250 | 478 | 105 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-1)

QC Batch: 77170

Date Analyzed: 2011-01-25

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0857 | 86 | 80 - 120 | 2011-01-25 |
| Toluene | | mg/L | 0.100 | 0.100 | 100 | 80 - 120 | 2011-01-25 |
| Ethylbenzene | | mg/L | 0.100 | 0.104 | 104 | 80 - 120 | 2011-01-25 |
| Xylene | | mg/L | 0.300 | 0.314 | 105 | 80 - 120 | 2011-01-25 |

Standard (CCV-2)

QC Batch: 77170

Date Analyzed: 2011-01-25

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0873 | 87 | 80 - 120 | 2011-01-25 |
| Toluene | | mg/L | 0.100 | 0.101 | 101 | 80 - 120 | 2011-01-25 |
| Ethylbenzene | | mg/L | 0.100 | 0.105 | 105 | 80 - 120 | 2011-01-25 |
| Xylene | | mg/L | 0.300 | 0.315 | 105 | 80 - 120 | 2011-01-25 |

Standard (CCV-3)

QC Batch: 77170

Date Analyzed: 2011-01-25

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0844 | 84 | 80 - 120 | 2011-01-25 |
| Toluene | | mg/L | 0.100 | 0.0988 | 99 | 80 - 120 | 2011-01-25 |
| Ethylbenzene | | mg/L | 0.100 | 0.103 | 103 | 80 - 120 | 2011-01-25 |
| Xylene | | mg/L | 0.300 | 0.310 | 103 | 80 - 120 | 2011-01-25 |

Standard (CCV-1)

QC Batch: 77205

Date Analyzed: 2011-01-27

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0921 | 92 | 80 - 120 | 2011-01-27 |
| Toluene | | mg/L | 0.100 | 0.0994 | 99 | 80 - 120 | 2011-01-27 |
| Ethylbenzene | | mg/L | 0.100 | 0.108 | 108 | 80 - 120 | 2011-01-27 |

continued ...

standard continued ...

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Xylene | | mg/L | 0.300 | 0.326 | 109 | 80 - 120 | 2011-01-27 |

Standard (CCV-2)

QC Batch: 77205

Date Analyzed: 2011-01-27

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0887 | 89 | 80 - 120 | 2011-01-27 |
| Toluene | | mg/L | 0.100 | 0.0969 | 97 | 80 - 120 | 2011-01-27 |
| Ethylbenzene | | mg/L | 0.100 | 0.101 | 101 | 80 - 120 | 2011-01-27 |
| Xylene | | mg/L | 0.300 | 0.304 | 101 | 80 - 120 | 2011-01-27 |

Standard (CCV-1)

QC Batch: 77415

Date Analyzed: 2011-02-04

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | mg/L | 25.0 | 24.0 | 96 | 90 - 110 | 2011-02-04 |

Standard (CCV-1)

QC Batch: 77415

Date Analyzed: 2011-02-04

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 24.5 | 98 | 90 - 110 | 2011-02-04 |

Standard (CCV-2)

QC Batch: 77415

Date Analyzed: 2011-02-04

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | mg/L | 25.0 | 23.5 | 94 | 90 - 110 | 2011-02-04 |

Report Date: February 7, 2011
115-6403134

Work Order: 11012135
Celero/Rock Queen Saltwater Plant #1

Page Number: 21 of 21

Standard (CCV-2)

QC Batch: 77415

Date Analyzed: 2011-02-04

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 24.0 | 96 | 90 - 110 | 2011-02-04 |

Standard (CCV-1)

QC Batch: 77426

Date Analyzed: 2011-02-06

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 25.2 | 101 | 90 - 110 | 2011-02-06 |

Standard (CCV-2)

QC Batch: 77426

Date Analyzed: 2011-02-06

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 24.7 | 99 | 90 - 110 | 2011-02-06 |

WO#: 11012135

Analysis Request of Chain of Custody Record

**TETRA TECH**

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

PAGE: / OF: /

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

Celero

SITE MANAGER:

Jeff Kudley

PROJECT NO.:

115-6410.3134

PROJECT NAME:

Celero / Zak Queen SWD H-1

Chert Co. NM

SAMPLE IDENTIFICATION

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP. | GRAB | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS | FILTERED (Y/N) | HCL | HNO3 | ICE | NONE | STEX 8021B | TPH 8015 M | PAH 8270 | PCRA Metals A | TCLP Metals A | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8240 | GC/MS Semi. Vol. | PCB's 8080/608 | Post. 808/608 | Chlorides | Gamma Spec. | Alpha/Beta (Air) | PLM (Asbestos) | Major Anions/Cations | (304) |
|-----------------|------|------|--------|-------|------|-----------------------|----------------------|----------------|-----|------|-----|------|------------|------------|----------|---------------|---------------|----------------|---------------------|-----|-----------------|------------------|----------------|---------------|-----------|-------------|------------------|----------------|----------------------|-------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 235925 | 1/9 | 1750 | N | | X | MW-1 | 4 | N | X | | X | X | X | | | | | | | | | | | | | | | | | |
| 926 | | 1750 | | | | MW-2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 927 | | 1730 | | | | MW-3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 928 | | 1810 | | | | MW-4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 929 | | 1805 | | | | MW-5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 930 | | 1743 | | | | MW-6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 931 | | 1735 | | | | MW-7 | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY: (Signature)

Date: 1/21/11

Time: 12:15

RECEIVED BY: (Signature)

Date: 1/21/11

Time: 12:15

SAMPLED BY: (Print & Initial)

J/K

Date: 1/21/11

Time:

RELINQUISHED BY: (Signature)

Date: 1/24/11

Time: 1:00

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

FEDEX

BUS

HAND DELIVERED

UPS

AIRBILL #:

OTHER:

RECEIVING LABORATORY:

ADDRESS:

CITY: Midland

STATE: TX

ZIP:

CONTACT:

PHONE:

RECEIVED BY: (Signature)

Zak Queen

DATE: 01/25/11

TIME: 10:10

TIME: 3:53 PM

TETRA TECH CONTACT PERSON:

Jeff Kudley

Results by:

RUSH Charges Authorized:

Yes

No

SAMPLE CONDITION WHEN RECEIVED:

125°C intact

REMARKS:

Midland - BTEX, TDS Zak Queen - Chlorides, SO4

Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.