

1R – 1645

2009 – 2011

GWMR

10 / 13 / 2011



TETRA TECH

October 13, 2011

Mr. Glenn von Gonten
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

Re: Comprehensive Groundwater Sampling Report for the Celero Energy II, LP, Rock Queen Unit Tract 7 Tank Battery, Located in Unit Letter I, Section 22, Township 13 South, Range 31 East, Chaves County, New Mexico (NMOCD 1RP#1645).

Mr. Von Gonten:

This report details the results of the groundwater sampling events performed at the Celero Energy II, LP (Celero), Rock Queen Unit Tract 7 Tank Battery (Site) from November 2009 through April 2011. The Site is located approximately 22 miles north of Maljamar, New Mexico. The Site location is shown on Figures 1 and 2.

FACILITY BACKGROUND

Pit Closure

On October 8, 2007, Highlander (Tetra Tech) submitted an Investigation and Characterization work plan (ICP) for an open pit at the Site. The ICP was subsequently approved by the New Mexico Oil Conservation Division (NMOCD).

The Tract 7 Tank Battery pit was dewatered and the residual sludge, tank bottom materials, and liner were removed in October 2007. Removed fluids were placed into an existing SWD system or taken for disposal, while the sludge, tank bottom materials, and liner were disposed of at Gandy-Marley, Inc.'s landfill site in Lovington, New Mexico. Upon completion of the removal of the fluids, sludge, and liner, the underlying soils were visually inspected for signs of impact. Approximately 440 cubic yards of soil were excavated and transported to Gandy-Marley, Inc. for disposal. The pit was excavated to a point where the subsoil would support a soil boring rig.

Tetra Tech

Tel

Fax



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On October 12, 2009, a report entitled *Assessment and Closure Report for the Pit located at the Rock Queen Unit Track 7 Tank Battery* was submitted to the NMOCD. The report detailed the closure of the former pit at the facility.

Groundwater Investigation

Between November 2009 and December 2010, Celero installed four 2-inch monitor wells (MW-1 through MW-4) and one 5-inch recovery well (RW-1) to assess the groundwater quality at the Site. The lithology at the Site was relatively consistent with limestone encountered to approximately 15 feet below ground surface (bgs) with very fine grain sands extending to approximately 150 to 160 feet bgs. From approximately 150 to 160 feet to the terminus of the borings (approximately 155 to 180 feet) the soils consisted of gray to red clay. See Appendix A for Boring Logs.

During the investigation, groundwater was encountered at depths of approximately 149 to 155 feet bgs. Monitor Well MW-1 was drilled into the surrounding underlying clay to 170 feet bgs and installed with 60 feet of 0.02 inch slotted screen. The remaining monitor wells were drilled to depths of 175 to 180 feet bgs and installed with 40 feet of 0.02 inch slotted screen. Recovery well RW-1 was drilled to a depth of 155 feet and installed with 20 feet of 0.035 inch slotted screen. From the top of the screens to the surface of the boring, the wells were completed with blank schedule 40 PVC casing. See Appendix B for monitor well installation diagrams.

During the investigation and subsequent sampling, the only constituent of concern detected in the groundwater above New Mexico Water Quality Control Commission (NMWQCC) standards was chlorides, TDS, and SO₄. No Phase Separated Hydrocarbons (PSH) or dissolved phase separated hydrocarbons have been measured or detected in any of the onsite monitor wells above New Mexico Water Quality Control Commission (NMWQCC) standards. See Figure 3 detailing the monitor well locations.

Gauging and Monitor Well Sampling

On November 24, 2009, initial sampling began at the site. During 2010, additional monitor wells were installed and quarterly sampling initiated. During the sampling events, all monitor wells were gauged, gauged, purged and sampled with no PSH measured. Utilizing the water level elevation calculations, groundwater gradient maps were generated for the January and April 2011 sampling events. The hydraulic gradient indicates a westerly direction. Groundwater gradient maps for the sampling events are included as Figures 4 and 5. Gauging data is summarized in Table 1.

During the sampling events, each of the wells was purged utilizing either a submersible pump or by hand bailing and subsequently sampled for BTEX



utilizing method SW8021B, chlorides and sulfates utilizing method E 300.0, total dissolved solids (TDS) utilizing method SM2540C and periodically for general chemistry using methods SM2320B, SW6010B, SM4500-H+. The samples were properly preserved and submitted under proper chain-of-custody control to Trace Analysis Inc. of Lubbock, Texas. All water samples collected and analyzed were below the NMWQCC standard of 0.01 milligrams per liter (mg/L) of benzene. Chlorides for the sampling period ranged from <125 mg/L in up gradient monitor well MW-4 on January 19, 2011 to 47,500 mg/L in down gradient monitor well MW-3 on January 19, 2011. With the exception of MW-4 all additional monitor wells exceeded the NMWQCC standard of 250 mg/L chlorides. The general chemistry and BTEX analyses are shown in Tables 2 and 3, respectively. Chloride concentration maps for the sampling events are included as Figures 6 through 10. Copies of the laboratory analyses are enclosed in Appendix C.

During the purging activities, it was noted that all four monitor well and one recovery well did not pump dry.

CONCLUSIONS

1. On November 24, 2009, initial sampling began at the site. During 2010, additional monitor wells were installed and quarterly sampling initiated. During the sampling events, all monitor wells were gauged, purged, and sampled. The samples were preserved, delivered to Trace Analysis, Inc. of Midland, Texas, and analyzed for BTEX utilizing method 8021B, chlorides and sulfates utilizing method E 300.0, total dissolved solids (TDS) utilizing method SM2540C and periodically for general chemistry using methods SM2320B, SW6010B, SM4500-H+.
2. The hydraulic gradient indicates a westerly direction.
3. All wells tested below the NMWQCC standards of 0.01 mg/L for benzene.
4. Chloride concentrations exceed the NMWQCC standards of 250 mg/L in all monitor wells with the exception of up gradient MW-4. The chloride concentrations at the site range from <125 mg/L in up gradient MW-4 on January 19, 2011 to 47,500 mg/L in down gradient monitor well MW-3 on January 19, 2011.

RECOMMENDATIONS

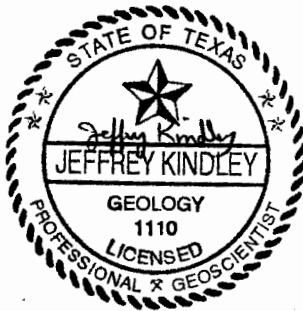
1. Quarterly groundwater monitoring and gauging will be continued throughout the year.



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2. Additional monitor wells will be installed in order to further delineate the chloride plume at the site.
3. A remediation system consisting of either a low flow solar/electric pump or a windmill system will be installed in recovery well RW-1. The recovered fluids will be collected in an above ground tank and utilized for possible water flooding purposes in the surrounding oilfield.

If you have any question or comments concerning the assessment or the activities performed at the Site, please call me at (432) 682-4559.

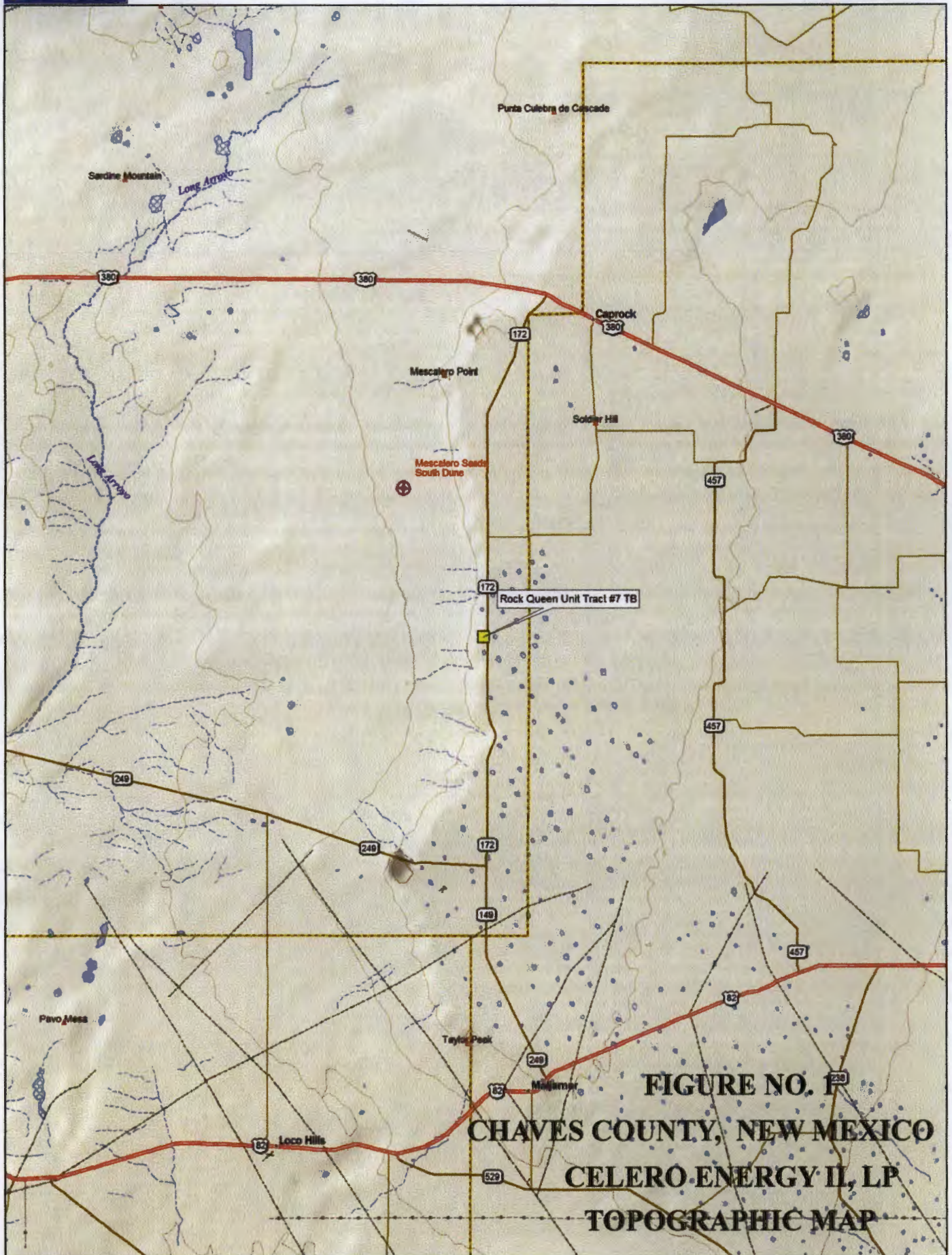


Respectfully submitted,
Tetra Tech, Inc.

Jeffrey Kindley
Jeffrey Kindley, P.G.
Senior Environmental Geologist

cc: Bruce Woodard – Celero Energy II, LP

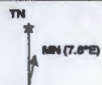
FIGURES



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MW-3

MW-2

ROCK QUEEN
TRACT #7



MW-1

RW-1

MW-4

SCALE: 200'



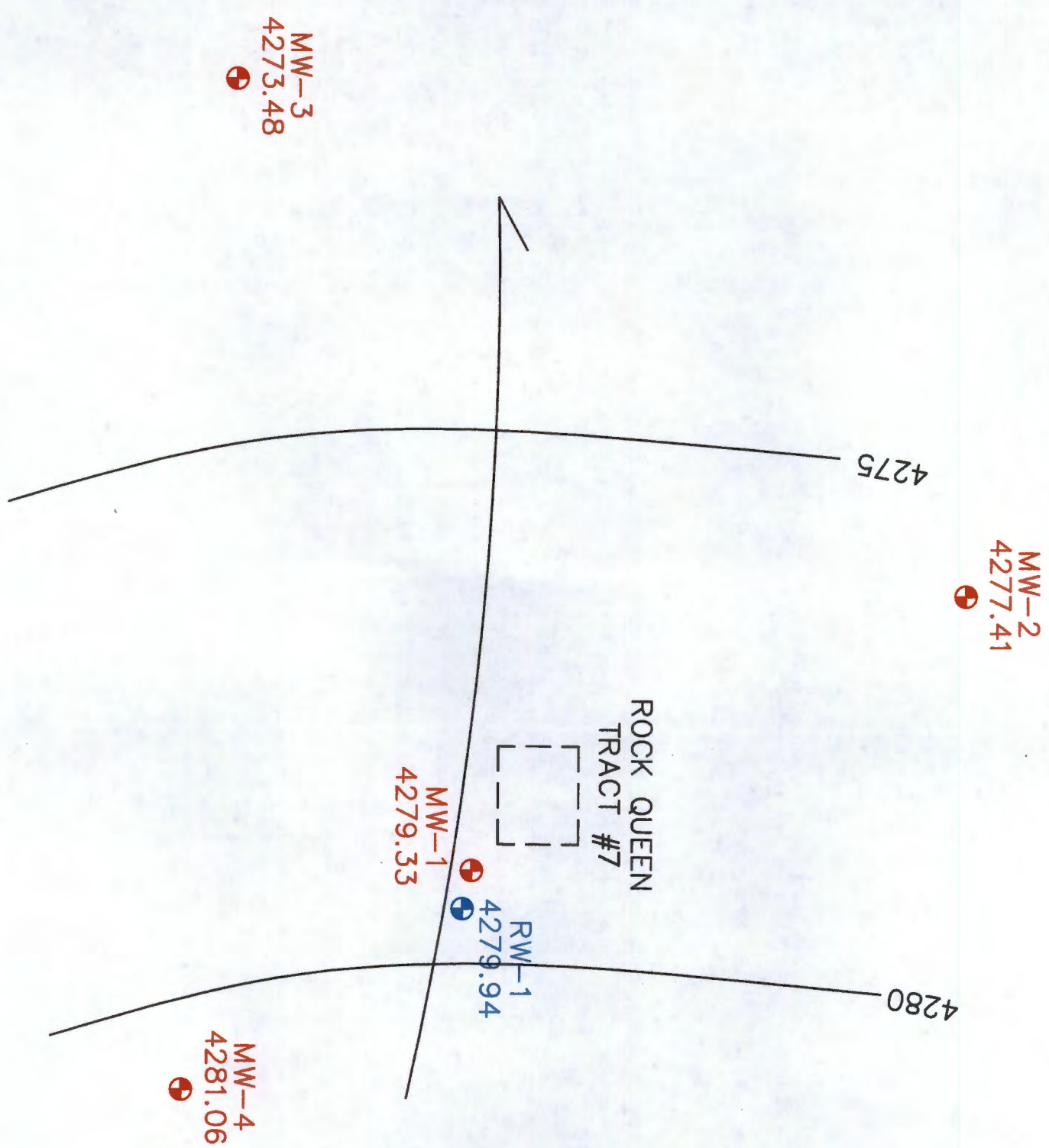
FIGURE NO. 3

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
SITE MAP

TETRA TECH, INC.
MIDLAND, TEXAS

DATE:
9/4/07
DWN. BY:
JJ
FILE:
C:\GEOGRAPHY\31330\
RQ TRACT #7



SCALE: 150'

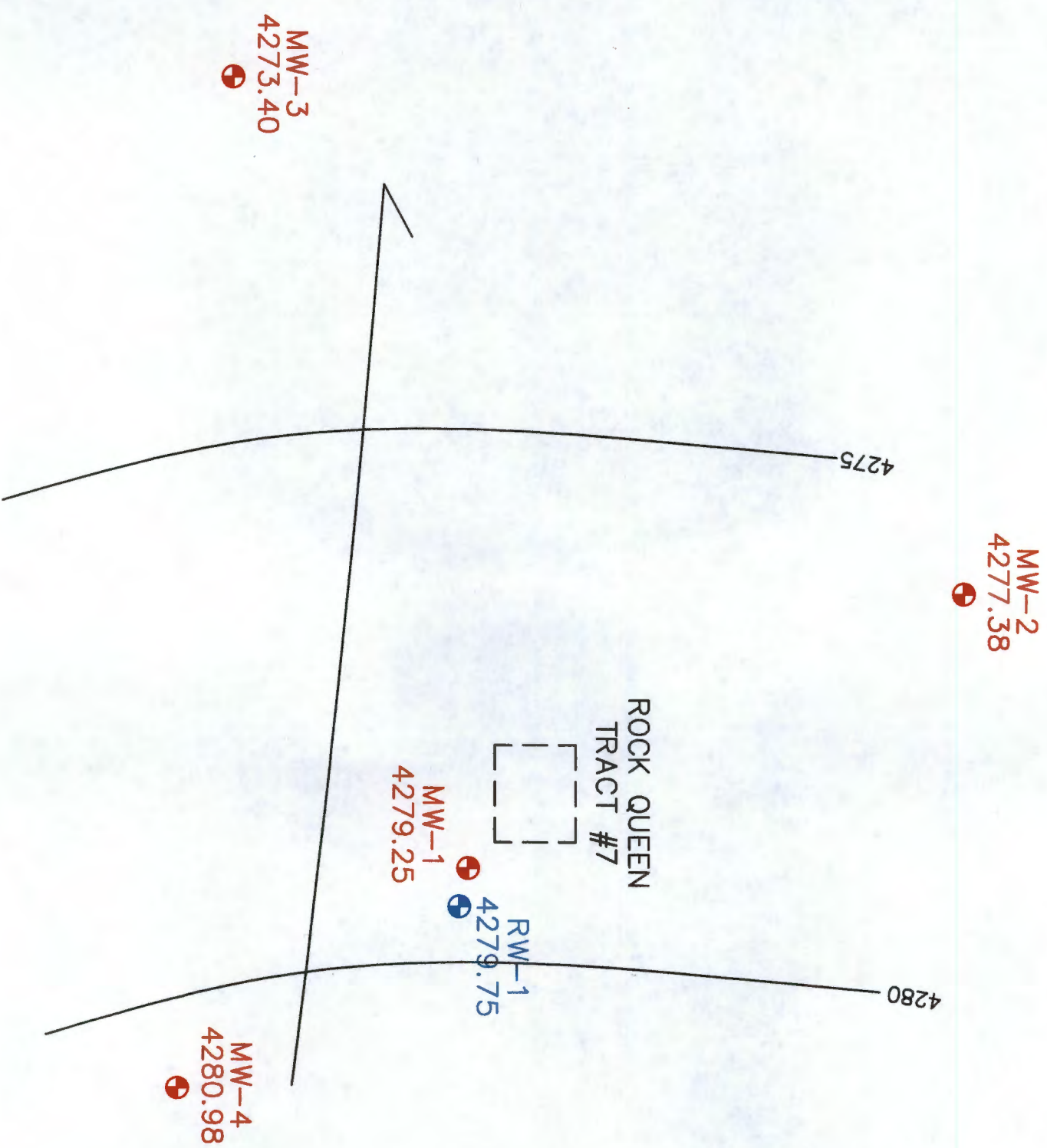
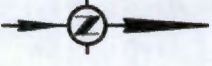
C.I. = 5'

0 150'

DATE: 1/17/11
DWN. BY: IM
FILE: C:\GELERO\J130\GROUNDWATER MAP

| | |
|---------------------------|--|
| CHAVES COUNTY, NEW MEXICO | |
| CELERO ENERGY | |
| ROCK QUEEN TRACT #7 | |
| GROUNDWATER GRADIENT MAP | |
| GAUGED ON 1/17/11 | |
| TETRA TECH, INC. | |
| MIDLAND, TEXAS | |

FIGURE NO. 4



SCALE: 150'

C.I. = 5'

0 150'

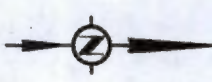
DATE:
4/11/2011
DWN. BY:
IM
FILE:
G:\CELERO\3150\GROUNDWATER MAP

FIGURE NO. 5

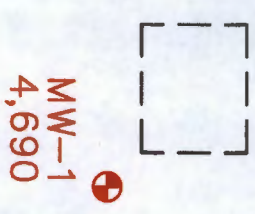
CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
GROUNDWATER GRADIENT MAP
GAUGED ON 4/11/2011

TETRA TECH, INC.
MIDLAND, TEXAS

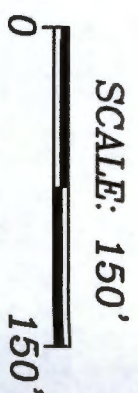


ROCK QUEEN
TRACT #7



MW-1
4,690

RESULTS IN mg/L



| | |
|----------|-----------------------------|
| DATE: | 11/24/2009 |
| DWN. BY: | IM |
| FILE: | C:\CELERO\3130\GNDWATER.MAP |

FIGURE NO. 6

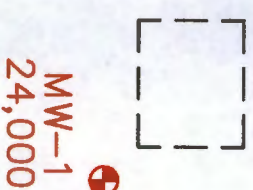
CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
CHLORIDE CONCENTRATION MAP
GAUGED ON 11/24/2009

TETRA TECH, INC.
MIDLAND, TEXAS

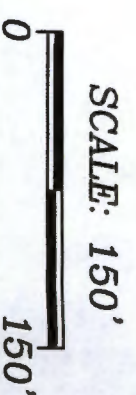


ROCK QUEEN
TRACT #7



MW-1
24,000

RESULTS IN mg/L



DATE:
02/25/2010
DWN. BY:
IM

FILE:
C:\GEOLOG\A130\1
GROUNDWATER MAP

FIGURE NO. 7

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY

ROCK QUEEN TRACT #7

CHLORIDE CONCENTRATION MAP

GAUGED ON 02/25/2010

TETRA TECH, INC.

MIDLAND, TEXAS



ROCK QUEEN
TRACT #7



MW-1
3,060

SCALE: 150'



RESULTS IN mg/L

| | |
|-----------|----------------------------------|
| DATE: | 7/12/2010 |
| DRAWN BY: | IM |
| FILE: | C:\GEOLOG\3130\1\GROUNDWATER.MXD |

FIGURE NO. 8

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
CHLORIDE CONCENTRATION MAP
GAUGED ON 7/12/2010

TETRA TECH, INC.
MIDLAND, TEXAS



ROCK QUEEN
TRACT #7



MW-1
20,000

FIGURE NO. 9

CHAVES COUNTY, NEW MEXICO

CELEERO ENERGY

ROCK QUEEN TRACT #7
CHLORIDE CONCENTRATION MAP
GAUGED ON 10/11/2010

TETRA TECH, INC.
MIDLAND, TEXAS

DATE:
10/11/2010

DWN. BY:
IM

FILE:
C:\GELERO\3120\
GROUNDWATER MAP

SCALE: 150'



RESULTS IN mg/L



MW-2
45,100

ROCK QUEEN
TRACT #7

MW-1
18,200

RW-1
NS

MW-4
< 125

MW-3
47,500

RESULTS IN mg/L
NS- NOT SAMPLED

SCALE: 150'

0 150'

DATE:
01/19/2011

DRAWN BY:
IM

FILE:
G:\CELEERO\31320\CONTRACTOR\IMAP

FIGURE NO. 10

CHAVES COUNTY, NEW MEXICO

CELEERO ENERGY
ROCK QUEEN TRACT #7
CHLORIDE CONCENTRATION MAP
GAUGED ON 1/19/2011

TETRA TECH, INC.
MIDLAND, TEXAS



MW-2
19,100

ROCK QUEEN
TRACT #7

MW-1
20,500

RW-1
NS

MW-4
510

MW-3
25,100

RESULTS IN mg/L
NS- NOT SAMPLED

SCALE: 150'
0 150'

DATE: 4/14/2011
DWN. BY: IM
FILE: C:\GOLDEN 3130\GOLDNUMBER MAP

FIGURE NO. 11

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
CHLORIDE CONCENTRATION MAP
GAUGED ON 4/14/11
TETRA TECH, INC.
MIDLAND, TEXAS

TABLES

Table 1
 Celero Energy II, LP
 Groundwater Gauging Data
 Rock Queen Unit Tract #7
 Chaves County, New Mexico

| Monitor Well | Date Gauged | Date Well Installation | TOC Elevation (ft) | Depth of Well (bgs in ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
|--------------|-------------|------------------------|--------------------|---------------------------|---------------------------|----------------------------|
| MW-1 | 11/24/09 | 11/17/09 | 4,428.76 | 170.00 | 149.66 | 4,279.10 |
| | 02/25/10 | | | | 149.43 | 4,279.33 |
| | 07/12/10 | | | | 149.46 | 4,279.30 |
| | 10/11/10 | | | | 149.44 | 4,279.32 |
| | 01/17/11 | | | | 149.43 | 4,279.33 |
| MW-2 | 04/11/11 | 11/18/10 | 4,432.58 | 178.60 | 149.51 | 4,279.25 |
| | 01/17/11 | | | | 155.17 | 4,277.41 |
| MW-3 | 04/11/11 | | | | 155.20 | 4,277.38 |
| | 01/17/11 | | | | 154.89 | 4,273.48 |
| MW-4 | 04/11/11 | | | | 154.97 | 4,273.40 |
| | 01/17/11 | 11/16/10 | 4,427.28 | 179.60 | 146.22 | 4,281.06 |
| RW-1 | 04/11/11 | 12/07/10 | 4,428.04 | 159.45 | 146.30 | 4,280.98 |
| | 01/17/11 | | | | 148.10 | 4,279.94 |
| | 04/11/11 | | | | 148.29 | 4,279.75 |
| | | | | | | |

Table 2
Celero Energy II, LP
Groundwater Analytical Results
Rock Queen Unit Tract #7
Chaves County, New Mexico

| Monitor Well | Date Sampled | Dissolved Calcium (mg/L) | Dissolved Magnesium (mg/L) | Dissolved Sodium (mg/L) | Dissolved Potassium (mg/L) | Hydroxide Alkalinity (mg/L) | Carbonate Alkalinity (mg/L) | Bicarbonate Alkalinity (mg/L) | Total Alkalinity (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | TDS (mg/L) | Hardness (mg/L) | pH |
|--------------|--------------|--------------------------|----------------------------|-------------------------|----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------|----------------|-----------------|------------|-----------------|------|
| MW-1 | 11/24/09 | 1,730 | 430 | 585 | 15.3 | <1.00 | <1.00 | 114 | 114 | 150 | 4,690 | 9,100 | 6,100 | 7.55 |
| | 02/25/10 | 8,010 | 2,250 | 2,860 | 80.0 | <1.00 | <1.00 | 93 | 93 | 463 | 24,000 | 38,300 | 29,300 | 7.11 |
| | 07/13/10 | - | - | - | - | - | - | - | - | 316 | 3,060 | 5,910 | - | - |
| | 10/13/10 | - | - | - | - | - | - | - | - | 960 | 20,000 | 48,400 | - | - |
| | 01/20/11 | - | - | - | - | - | - | - | - | <2,500 | 18,200 | 38,600 | - | - |
| | 04/14/11 | - | - | - | - | - | - | - | - | 1,020 | 20,500 | 32,000 | - | - |
| MW-2 | 01/20/11 | - | - | - | - | - | - | - | - | 1,250 | 45,100 | 78,200 | - | - |
| | 04/14/11 | - | - | - | - | - | - | - | - | 1,280 | 19,100 | 33,000 | - | - |
| MW-3 | 01/20/11 | - | - | - | - | - | - | - | - | 1,750 | 47,500 | 81,800 | - | - |
| | 04/14/11 | - | - | - | - | - | - | - | - | 1,170 | 25,100 | 41,000 | - | - |
| MW-4 | 01/20/11 | - | - | - | - | - | - | - | - | <125 | 279 | 792 | - | - |
| | 04/14/11 | - | - | - | - | - | - | - | - | 81 | 510 | 3,330 | - | - |
| RW-1 | 01/20/11 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/14/11 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |

NS - Not sampled

(-) Not analyzed

Table 3
Celero Energy II, LP
Groundwater Analytical Results
Rock Queen Unit Tract #7
Chaves County, New Mexico

| Monitor Well | Date Sampled | Benzene in (mg/L) | Toluene in (mg/L) | Ethyl- Benzene (mg/L) | Xylene in (mg/L) | Total BTEX (mg/L) |
|--------------|--------------|-------------------------|-------------------------|-----------------------------|------------------------|-------------------------|
| MW-1 | 11/24/09 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 02/25/10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 07/13/10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 10/13/10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 01/19/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 04/14/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-2 | 01/19/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 04/14/11 | 0.0068 | <0.001 | <0.001 | <0.001 | 0.0068 |
| MW-3 | 01/19/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 04/14/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-4 | 01/19/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 04/14/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| RW-1 | 01/19/11 | NS | NS | NS | NS | NS |
| | 04/14/11 | NS | NS | NS | NS | NS |
| | | | | | | |

NS - Not sampled

APPENDIX A BORING LOGS

SAMPLE LOG

Boring/Well **MW-1**
GPS **N33.172564° W103.804064°**
Project Number **115-6403130A**
Client **Celero Energy II, LP**
Site Name **Rock Queen Unit Tract # 7 Tank Battery**
Site Location **Chaves County, New Mexico**
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth **170**
Date Installed **11/17/09**

| DEPTH (Ft) | OVM | SAMPLE DESCRIPTION |
|------------|-----|---|
| 3-5 | -- | Hard buff limestone |
| 8-10 | -- | Hard buff limestone with chert |
| 13-15 | -- | Hard tan sandy limestone |
| 18-20 | -- | Tan fine grain sand |
| 23-25 | -- | Tan fine grain sand |
| 28-30 | -- | Tan fine grain sand |
| 33-35 | -- | Tan fine grain sand |
| 38-40 | -- | Tan fine grain sand |
| 43-45 | -- | Tan fine grain sand |
| 48-50 | -- | Tan fine grain sand |
| 53-55 | -- | Tan fine grain sand |
| 58-60 | -- | Tan fine grain sand |
| 63-65 | -- | Tan to brown fine grain well sorted sand |
| 68-70 | -- | Tan to brown fine grain well sorted sand |
| 73-75 | -- | Tan to brown fine grain well sorted sand |
| 78-80 | -- | Tan to brown fine grain well sorted sand (Mud up) |
| 83-85 | -- | Tan to brown fine grain well sorted sand |
| 88-90 | -- | Tan to brown fine grain well sorted sand with gravel intermixed |
| 93-95 | -- | Tan to brown fine grain well sorted sand with gravel intermixed |
| 98-100 | -- | Tan to brown fine grain well sorted sand |
| 103-105 | -- | Tan to brown fine grain well sorted sand |
| 108-110 | -- | Tan to brown fine grain well sorted sand |
| 113-115 | -- | Tan to brown fine grain well sorted sand |
| 118-120 | -- | Tan to brown fine grain well sorted sand |
| 123-125 | -- | Tan to brown fine grain well sorted sand |

SAMPLE LOG

Boring/Well **MW-1**
GPS **N33.172564° W103.804064°**
Project Number **115-6403130A**
Client **Celero Energy II, LP**
Site Name **Rock Queen Unit Tract # 7 Tank Battery**
Site Location **Chaves County, New Mexico**
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth **170**
Date Installed **11/17/09**

| DEPTH (Ft) | OVM | SAMPLE DESCRIPTION |
|------------|-----|--|
| 128-130 | -- | Tan to brown fine grain well sorted sand |
| 133-135 | -- | Tan to brown fine grain well sorted sand |
| 138-140 | -- | Tan to brown fine grain well sorted sand |
| 143-145 | -- | Tan to brown fine grain well sorted sand |
| 148-150 | -- | Tan to brown fine grain well sorted sand |
| 153-155 | -- | Red to brown sandy clay |
| 158-160 | -- | Red to brown sandy clay |
| 163-165 | -- | Red to brown sandy clay |
| 168-170 | -- | Red to brown sandy clay |

Total Depth: 170' Depth to groundwater encountered unknown.

SAMPLE LOG

Boring/Well MW-2
GPS N33.17362° W103.80504°
Project Number 115-6403130A
Client Celero Energy II, LP
Site Name Rock Queen Unit Tract #7 Tank Battery
Site Location Chaves, New Mexico
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth 175'
Date Installed 11/18/10

| Depth (Ft) | OVM | Sample Description |
|------------|-----|--|
| 5-6' | -- | Caliche with Buff Sand and 15%Chert |
| 10-11' | -- | Caliche with 10% Chert |
| 15-16' | -- | Caliche with Buff Sand and 5% Chert |
| 20-21' | -- | Buff Sand with 15% Caliche |
| 25-26' | -- | Light Brown Fine Grain Well Sorted Sand |
| 30-31' | -- | Light Brown Fine Grain Well Sorted Sand |
| 35-36' | -- | Light Brown Fine Grain Well Sorted Sand |
| 40-41' | -- | Light Brown Fine Grain Well Sorted Sand |
| 45-46' | -- | Light Brown Fine Grain Well Sorted Sand |
| 50-51' | -- | Light Brown Fine Grain Well Sorted Sand |
| 55-56' | -- | Light Brown Fine Grain Well Sorted Sand |
| 60-61' | -- | Brown Fine Grain Well Sorted Sand |
| 65-66' | -- | Brown Fine Grain Well Sorted Sand |
| 70-71' | -- | Brown Fine Grain Well Sorted Sand |
| 75-76' | -- | Brown Fine Grain Well Sorted Sand |
| 80-81' | -- | Brown Fine Grain Well Sorted Sand |
| 85-86' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 90-91' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 95-96' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 100-101' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 105-106' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 110-111' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 115-116' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 120-121' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 125-126' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |

SAMPLE LOG

Boring/Well **MW-2**
GPS **N33.17362° W103.80504°**
Project Number **115-6403130A**
Client **Celero Energy II, LP**
Site Name **Rock Queen Unit Tract #7 Tank Battery**
Site Location **Chaves, New Mexico**
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth **175'**
Date Installed **11/18/10**

| | | |
|----------|----|--|
| 130-131' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 135-136' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 140-141' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 145-146' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 150-151' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 155-156' | -- | Blue Brown Clay with Angular Caliche |
| 160-161' | -- | Blue Brown Clay with Red Bed |
| 165-166' | -- | Red Bed |
| 170-171' | -- | Red Bed |
| 175' | -- | Red Bed |

Total Depth: 175' Ground water depth not encountered while drilling.

SAMPLE LOG

Boring/Well MW-3
GPS N33.17220° W103.80511°
Project Number: 115-6403130A
Client Celero Energy II, LP
Site Name Rock Queen Unit Tract #7 Tank Battery
Site Location Chaves, New Mexico
Letter J, Section 22, Township 13 South, Range 31 East
Total Depth 180'
Date Installed 11/17/10

| Depth (Ft) | OVM | Sample Description |
|------------|-----|---|
| 5-6' | -- | Caliche |
| 10-11' | -- | Caliche and Chert |
| 15-16' | -- | Caliche |
| 20-21' | -- | Light Brown Fine Grain Sand |
| 25-26' | -- | Light Tan Fine Grain Sand with 20% Caliche |
| 30-31' | -- | Light Tan Fine Grain Sand with 20% Caliche |
| 35-36' | -- | Light Tan Fine Grain Sand with 20% Caliche |
| 40-41' | -- | Light Tan Fine Grain Sand with 20% Caliche |
| 45-46' | -- | Light Tan Fine Grain Sand with 20% Caliche |
| 50-51' | -- | Light Tan Fine Grain Sand with 20% Caliche |
| 55-56' | -- | Light Brown Fine Grain Well Sorted Sand |
| 60-61' | -- | Light Brown Fine Grain Well Sorted Sand |
| 65-66' | -- | Light Brown Fine Grain Well Sorted Sand |
| 70-71' | -- | Light Brown Fine Grain Well Sorted Sand |
| 75-76' | -- | Light Brown Fine Grain Well Sorted Sand |
| 80-81' | -- | Light Brown Fine Grain Well Sorted Sand |
| 85-86' | -- | Light Brown Fine Grain Well Sorted Sand with 10% Angular Gravel |
| 90-91' | -- | Light Brown Fine Grain Well Sorted Sand with 10% Angular Gravel |
| 95-96' | -- | Light Brown Fine Grain Well Sorted Sand with 5% Angular Gravel |
| 100-101' | -- | Light Brown Fine Grain Well Sorted Sand with 5% Angular Gravel |
| 105-106' | -- | Light Brown Fine Grain Well Sorted Sand with 5% Angular Gravel |
| 110-111' | -- | Light Brown Fine Grain Well Sorted Sand with 10% Angular Gravel |
| 115-116' | -- | Light Brown Fine Grain Well Sorted Sand with 10% Angular Gravel |
| 120-121' | -- | Light Brown Fine Grain Well Sorted Sand with 10% Angular Gravel |
| 125-126' | -- | Light Brown Fine Grain Well Sorted Sand with 10% Angular Gravel |

SAMPLE LOG

Boring/Well **MW-3**
GPS **N33.17220° W103.80511°**
Project Number: **115-6403130A**
Client **Celero Energy II, LP**
Site Name **Rock Queen Unit Tract #7 Tank Battery**
Site Location **Chaves, New Mexico**
Letter J, Section 22, Township 13 South, Range 31 East
Total Depth **180'**
Date Installed **11/17/10**

| | | |
|----------|----|---|
| 130-131' | -- | Light Brown Fine Grain Well Sorted Sand |
| 135-136' | -- | Light Brown Fine Grain Well Sorted Sand |
| 140-141' | -- | Light Brown Fine Grain Well Sorted Sand |
| 145-146' | -- | Light Brown Fine Grain Well Sorted Sand |
| 150-151' | -- | Light Brown Fine Grain Well Sorted Sand |
| 155-156' | -- | Light Brown Fine Grain Well Sorted Sand |
| 160-161' | -- | Light Brown Fine Grain Well Sorted Sand |
| 165-166' | -- | Light Brown Fine Grain Well Sorted Sand |
| 170-171' | -- | Red Bed |
| 175-176' | -- | Red Bed with Blue Green Clay |
| 180 | -- | Red Bed |

Total Depth: 175' Ground water depth not encountered while drilling.

SAMPLE LOG

Boring/Well **MW-4**
GPS **N33.17218° W103.80413°**
Project Number **115-6403130A**
Client **Celero Energy II, LP**
Site Name **Rock Queen Unit Tract #7 Tank Battery**
Site Location **Chaves, New Mexico**
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth **175'**
Date Installed **11/16/10**

| Depth (Ft) | OVM | Sample Description |
|------------|-----|--|
| 5-6' | -- | Caliche |
| 10-11' | -- | Caliche and Chert |
| 15-16' | -- | Caliche |
| 20-21' | -- | Light Brown Fine Grain Sand |
| 25-26' | -- | Light Tan Fine Grain Sand with 30% Caliche |
| 30-31' | -- | Light Tan Fine Grain Sand with 30% Caliche |
| 35-36' | -- | Light Tan Fine Grain Sand with 30% Caliche |
| 40-41' | -- | Light Tan Fine Grain Sand with 30% Caliche |
| 45-46' | -- | Light Brown Fine Grain Well Sorted Sand |
| 50-51' | -- | Light Brown Fine Grain Well Sorted Sand |
| 55-56' | -- | Light Brown Fine Grain Well Sorted Sand |
| 60-61' | -- | Light Brown Fine Grain Well Sorted Sand |
| 65-66' | -- | Light Brown Fine Grain Well Sorted Sand |
| 70-71' | -- | Light Brown Fine Grain Well Sorted Sand |
| 75-76' | -- | Light Brown Fine Grain Well Sorted Sand |
| 80-81' | -- | Light Brown Fine Grain Well Sorted Sand |
| 85-86' | -- | Light Brown Fine Grain Well Sorted Sand |
| 90-91' | -- | Light Brown Fine Grain Well Sorted Sand |
| 95-96' | -- | Light Brown Fine Grain Well Sorted Sand |
| 100-101' | -- | Light Brown Fine Grain Well Sorted Sand |
| 105-106' | -- | Light Brown Fine Grain Well Sorted Sand |
| 110-111' | -- | Light Brown Fine Grain Well Sorted Sand |
| 115-116' | -- | Light Brown Fine Grain Well Sorted Sand |
| 120-121' | -- | Light Brown Fine Grain Medium Sorted Sand |
| 125-126' | -- | Light Brown Fine Grain Medium Sorted Sand |

SAMPLE LOG

Boring/Well **MW-4**
GPS **N33.17218° W103.80413°**
Project Number **115-6403130A**
Client **Celero Energy II, LP**
Site Name **Rock Queen Unit Tract #7 Tank Battery**
Site Location **Chaves, New Mexico**
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth **175'**
Date Installed **11/16/10**

| | | |
|----------|----|---|
| 130-131' | -- | Light Brown Fine Grain Medium Sorted Sand |
| 135-136' | -- | Light Brown Fine Grain Medium Sorted Sand |
| 140-141' | -- | Light Brown Fine Grain Medium Sorted Sand |
| 145-146' | -- | Light Brown Fine Grain Medium Sorted Sand |
| 150-151' | -- | Light Brown Fine Grain Sand with Blue Grey Clay |
| 155-156' | -- | Light Brown Fine Grain Sand with Blue Grey Clay |
| 160-161' | -- | Light Brown Fine Grain Sand with Blue Grey Clay |
| 165-166' | -- | Red Bed |
| 170-171' | -- | Red Bed |
| 175' | -- | Red Bed |

Total Depth: 175' Ground water depth not encountered while drilling.

SAMPLE LOG

Boring/Well **RW-1**
GPS **N33.172547° W103.803986°**
Project Number **115-6403130A**
Client **Celero Energy II, LP**
Site Name **Rock Queen Unit Tract #7 Tank Battery**
Site Location **Chaves, New Mexico**
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth **155**
Date Installed **12/7/10 to 12/8/10**

| Depth (Ft) | OVM | Sample Description |
|------------|-----|--|
| 5-6' | -- | Buff limestone |
| 10-11' | -- | Buff to tan sandy limestone |
| 15-16' | -- | Tan to buff fine grain calcareous sand |
| 20-21' | -- | Tan fine grain well sorted calcareous sand |
| 25-26' | -- | Tan fine grain well sorted calcareous sand |
| 30-31' | -- | Tan fine grain well sorted calcareous sand |
| 35-36' | -- | Tan fine grain well sorted calcareous sand |
| 40-41' | -- | Tan fine grain well sorted calcareous sand |
| 45-46' | -- | Tan fine grain well sorted sand |
| 50-51' | -- | Tan fine grain well sorted sand |
| 55-56' | -- | Tan fine grain well sorted sand |
| 60-61' | -- | Tan fine grain well sorted sand |
| 65-66' | -- | Tan fine grain well sorted sand |
| 70-71' | -- | Tan fine grain well sorted sand |
| 75-76' | -- | Tan fine grain well sorted sand |
| 80-81' | -- | Tan fine grain well sorted sand |
| 85-86' | -- | Tan fine grain well sorted sand |
| 90-91' | -- | Tan fine grain well sorted sand |
| 95-96' | -- | Tan fine grain well sorted sand |
| 100-101' | -- | Tan fine grain sand with gravel |
| 105-106' | -- | Tan fine grain sand with gravel |
| 110-111' | -- | Tan fine grain sand with gravel |
| 115-116' | -- | Tan fine grain sand with gravel |
| 120-121' | -- | Tan fine grain sand with gravel |
| 125-126' | -- | Tan fine grain sand with gravel |

SAMPLE LOG

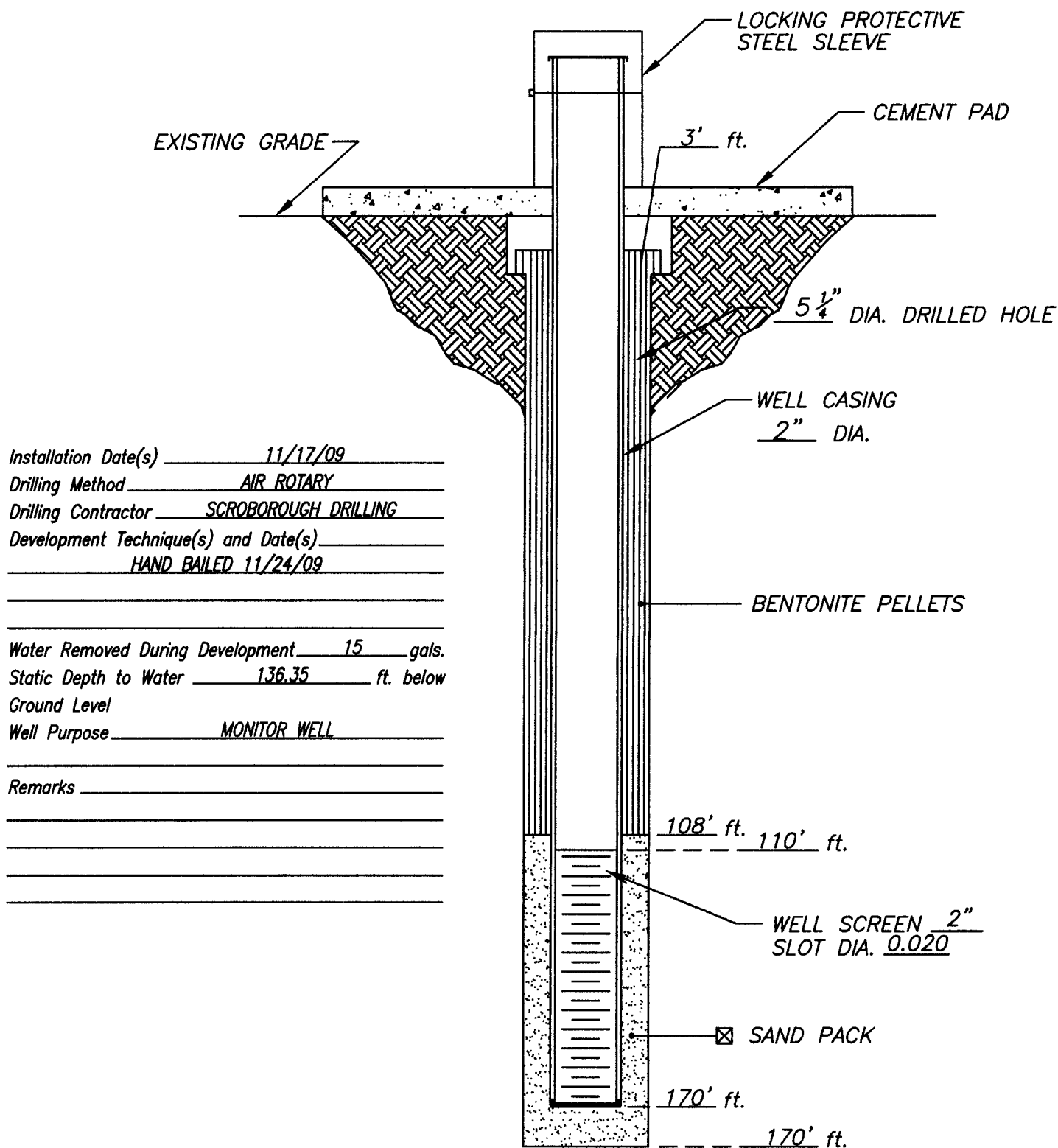
Boring/Well **RW-1**
GPS **N33.172547° W103.803986°**
Project Number **115-6403130A**
Client **Celero Energy II, LP**
Site Name **Rock Queen Unit Tract #7 Tank Battery**
Site Location **Chaves, New Mexico**
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth **155**
Date Installed **12/7/10 to 12/8/10**

| | | |
|----------|----|---------------------------------|
| 130-131' | -- | Tan fine grain sand with gravel |
| 135-136' | -- | Tan fine grain sand with gravel |
| 140-141' | -- | Tan fine grain sand with gravel |
| 145-146' | -- | Tan fine grain sand with gravel |
| 150-151' | -- | Tan to red clay |
| 155-156' | -- | Tan to red clay |

Total Depth: 155' Ground water depth not encountered while drilling.

APPENDIX B
MONITOR WELL INSTALLATION DIAGRAMS

WELL CONSTRUCTION LOG



DATE: 11/20/09

TETRA TECH, INC.
MIDLAND, TEXAS

CLIENT: CELERO ENERGY II, LLC

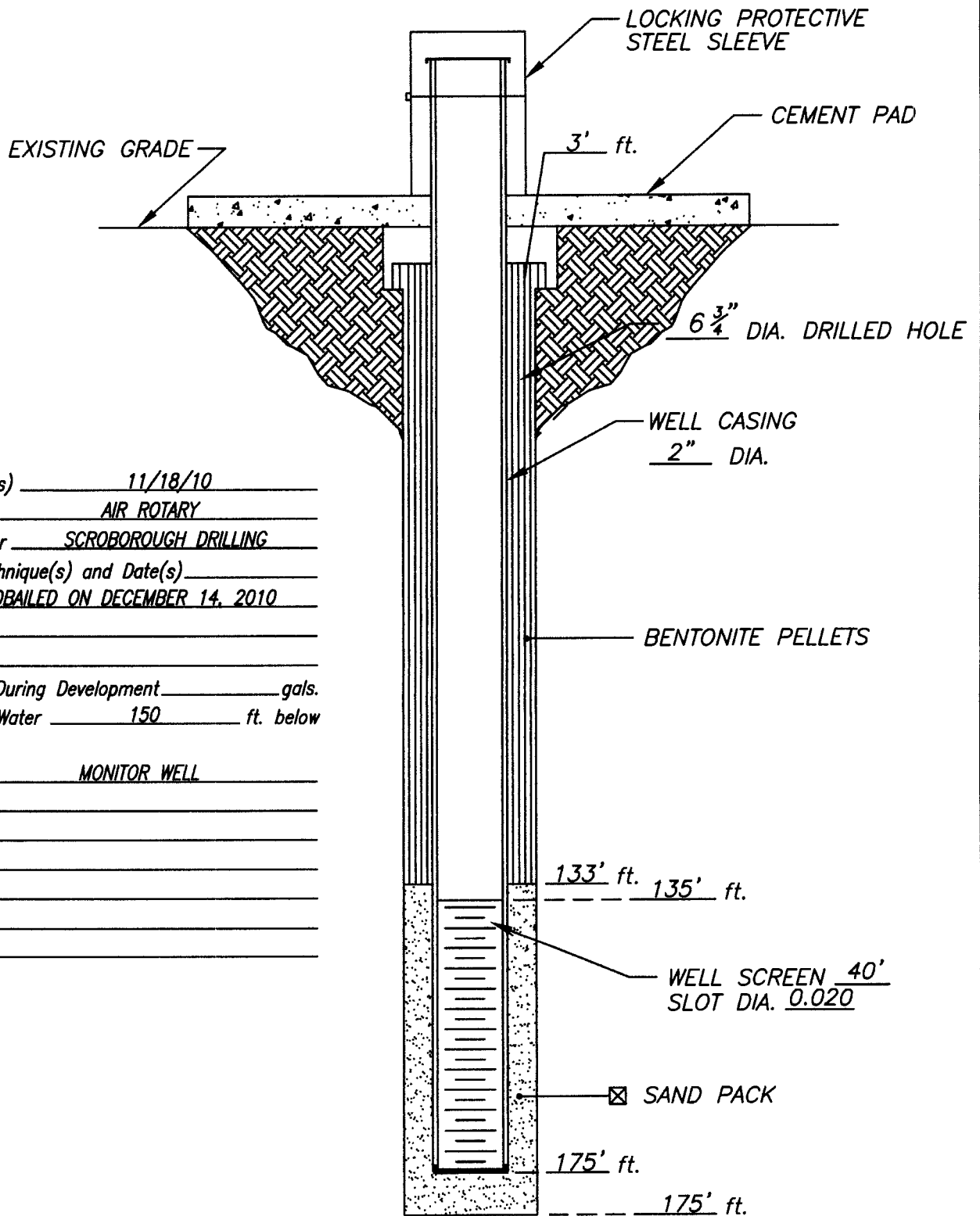
PROJECT: ROCK QUEEN TRACT #7

LOCATION: CHAVES COUNTY, NEW MEXICO

WELL NO.

MW-1

WELL CONSTRUCTION LOG



Installation Date(s) 11/18/10
 Drilling Method AIR ROTARY
 Drilling Contractor SCROBOROUGH DRILLING
 Development Technique(s) and Date(s) HANDBAILED ON DECEMBER 14, 2010

Water Removed During Development _____ gals.
 Static Depth to Water 150 ft. below
 Ground Level
 Well Purpose MONITOR WELL

Remarks _____

DATE: 11/18/10

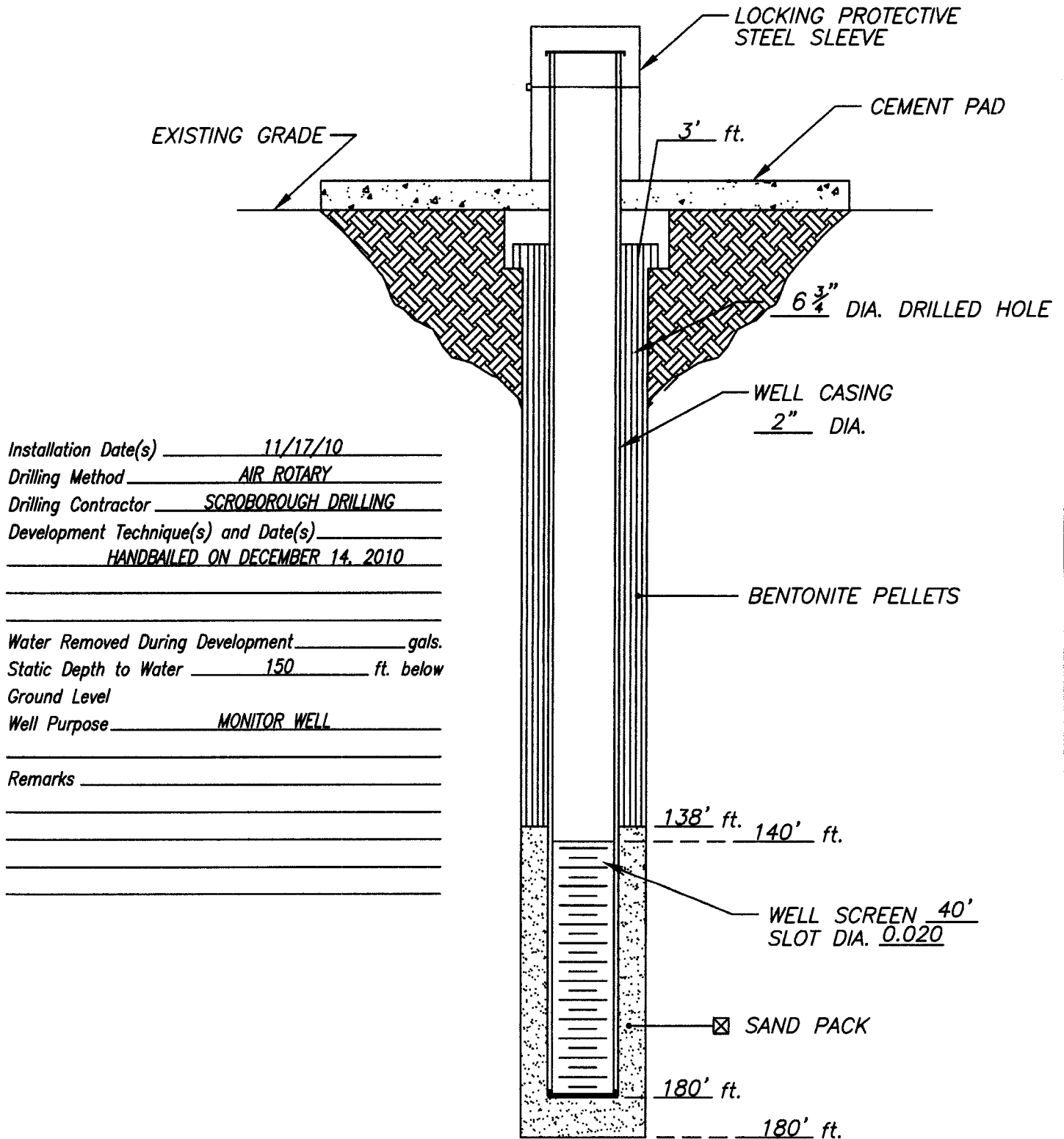
TETRA TECH, INC.
MIDLAND, TEXAS

CLIENT: CELERO ENERGY II, LLC
 PROJECT: ROCK QUEEN TRACT #7
 LOCATION: CHAVES COUNTY, NEW MEXICO

WELL NO.

MW-2

WELL CONSTRUCTION LOG



DATE: 11/17/10

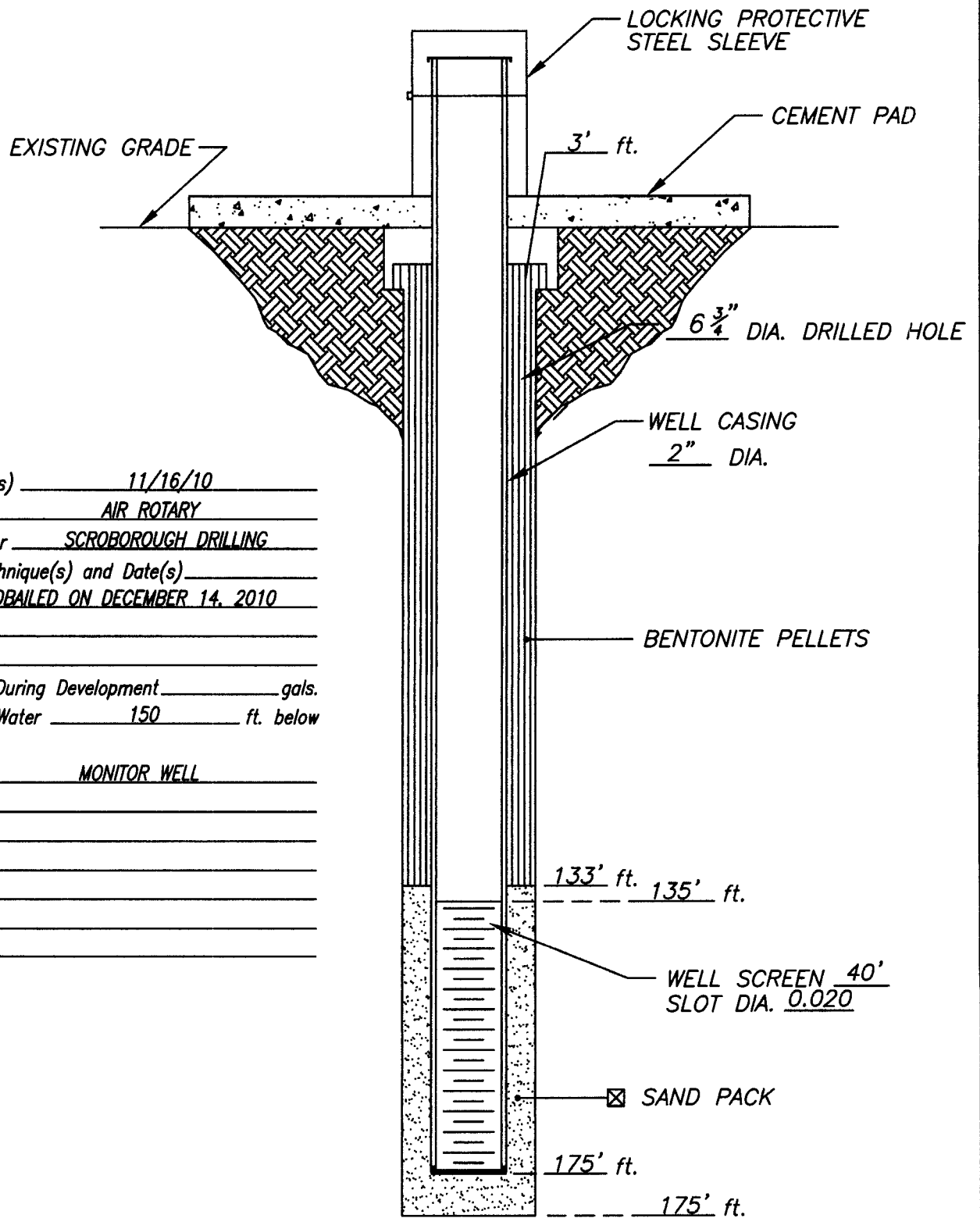
TETRA TECH, INC.
MIDLAND, TEXAS

CLIENT: CELERO ENERGY II, LLC
PROJECT: ROCK QUEEN TRACT #7
LOCATION: CHAVES COUNTY, NEW MEXICO

WELL NO.

MW-3

WELL CONSTRUCTION LOG



Installation Date(s) 11/16/10
 Drilling Method AIR ROTARY
 Drilling Contractor SCROBOROUGH DRILLING
 Development Technique(s) and Date(s) HANDBAILED ON DECEMBER 14, 2010

Water Removed During Development _____ gals.
 Static Depth to Water 150 ft. below
 Ground Level
 Well Purpose MONITOR WELL

Remarks _____

DATE: 11/16/10

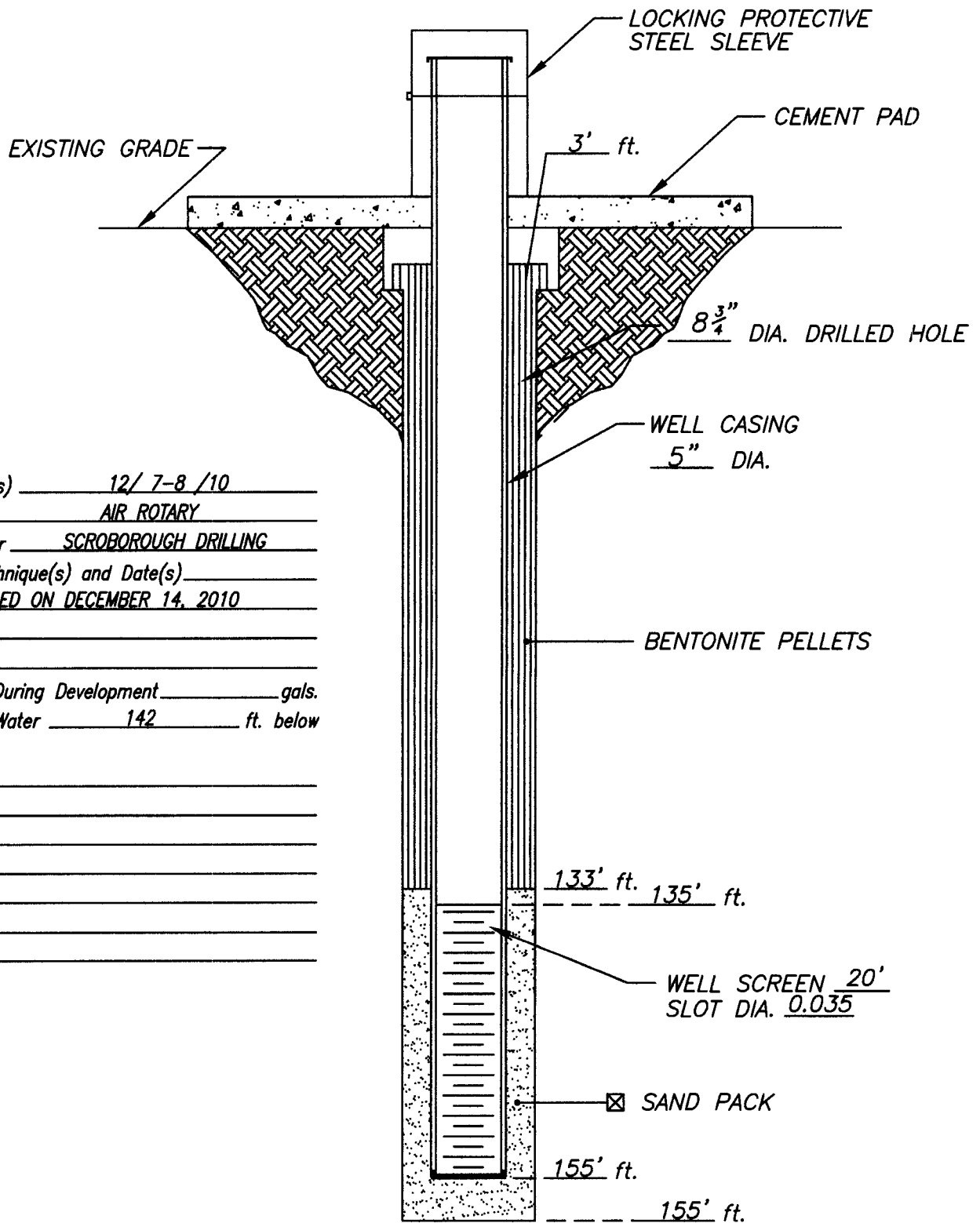
TETRA TECH, INC.
MIDLAND, TEXAS

CLIENT: CELERO ENERGY II, LLC
 PROJECT: ROCK QUEEN TRACT #7
 LOCATION: CHAVES COUNTY, NEW MEXICO

WELL NO.

MW-4

WELL CONSTRUCTION LOG



Installation Date(s) 12/ 7-8 /10
 Drilling Method AIR ROTARY
 Drilling Contractor SCROBOROUGH DRILLING
 Development Technique(s) and Date(s) HANDBAILED ON DECEMBER 14, 2010

Water Removed During Development _____ gals.
 Static Depth to Water 142 ft. below
 Ground Level
 Well Purpose _____

Remarks _____

DATE: 12/7/10

TETRA TECH, INC.
MIDLAND, TEXAS

CLIENT: CELERO ENERGY II, LLC
 PROJECT: ROCK QUEEN TRACT #7
 LOCATION: CHAVES COUNTY, NEW MEXICO

WELL NO.

RW-1

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

Certifications

WBENC: 237019

HUB: 1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

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: 9112520



Project Location: Chavez Co., NM
Project Name: Celero/Tract 7
Project Number: 115-6403130A

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 |
|--------|-------------|--------|---------------|---------------|------------------|
| 215843 | MW-1 | water | 2009-11-24 | 14:45 | 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 15 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/Tract 7 were received by TraceAnalysis, Inc. on 2009-11-25 and assigned to work order 9112520. Samples for work order 9112520 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 |
| 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 9112520 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: 215843 - 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 | | 114 | mg/L as CaCo3 | 1 | 4.00 |
| Total Alkalinity | | 114 | mg/L as CaCo3 | 1 | 4.00 |

Sample: 215843 - MW-1

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) | | 0.103 | mg/L | 1 | 0.100 | 103 | 70.9 - 119.8 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0881 | mg/L | 1 | 0.100 | 88 | 68.1 - 118.8 |

Sample: 215843 - 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 | | 1730 | mg/L | 10 | 1.00 |

continued ...

Report Date: December 7, 2009
115-6403130A

Work Order: 9112520
Celero/Tract 7

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Chavez Co., NM

sample 215843 continued ...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---------------------|------|--------------|-------|----------|------|
| Dissolved Potassium | | 15.3 | mg/L | 1 | 1.00 |
| Dissolved Magnesium | | 430 | mg/L | 10 | 1.00 |
| Dissolved Sodium | | 585 | mg/L | 10 | 1.00 |

Sample: 215843 - MW-1

| | | |
|-------------------------|--------------------------------|------------------|
| 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 | | 4690 | mg/L | 500 | 0.500 |

Sample: 215843 - MW-1

| | | |
|---------------------|--------------------------------|------------------|
| 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) | | 6100 | mg eq CaCO3/L | 1 | 0.00 |

Sample: 215843 - MW-1

| | | |
|---------------------|--------------------------------|------------------|
| 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 | | 7.55 | s.u. | 1 | 0.00 |

Report Date: December 7, 2009
115-6403130A

Work Order: 9112520
Celero/Tract 7

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Sample: 215843 - MW-1

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 | | 150 | mg/L | 5 | 0.500 |

Sample: 215843 - MW-1

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 | | 9100 | mg/L | 100 | 10.0 |

Method Blank (1) QC Batch: 65660

QC Batch: 65660
Prep Batch: 56093

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

Analyzed By: AR
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
Prep Batch: 56093

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

Analyzed By: AR
Prepared By: AR

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

Report Date: December 7, 2009
115-6403130A

Work Order: 9112520
Celero/Tract 7

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Method Blank (1) QC Batch: 65677

QC Batch: 65677
Prep Batch: 56132

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

Analyzed By: AR
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
Prep Batch: 56178

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

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) | | 0.108 | 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
Prep Batch: 56137

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

Analyzed By: RR
Prepared By: KV

| Parameter | Flag | MDL Result | Units | RL |
|---------------------|------|---------------|-------|----|
| Dissolved Calcium | | <0.117 | mg/L | 1 |
| Dissolved Potassium | | <0.172 | mg/L | 1 |
| Dissolved Magnesium | | <0.160 | mg/L | 1 |
| Dissolved Sodium | | <0.0500 | mg/L | 1 |

Report Date: December 7, 2009
115-6403130A

Work Order: 9112520
Celero/Tract 7

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Method Blank (1) QC Batch: 65808

QC Batch: 65808 Date Analyzed: 2009-12-07 Analyzed By: AR
Prep Batch: 56115 QC Preparation: 2009-12-01 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 Date Analyzed: 2009-11-25 Analyzed By: AR
Prep Batch: 56049 QC Preparation: 2009-11-25 Prepared By: AR

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

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

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| 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
Prep Batch: 56093

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

Analyzed By: AR
Prepared By: AR

| 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 |

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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 |
| 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: 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.

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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 | ¹ 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 | ² 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 | ³ 254 | 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.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|------------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | ⁴ 256 | 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 |

continued ...

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

²MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

³Matrix spike recovery out of control limits due to peak 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.

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matrix spikes continued ...

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------|--------------|-------|------|-----------------|------------------|------|---------------|
| 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.

| 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.

Standard (ICV-1)

QC Batch: 65589

Date Analyzed: 2009-11-25

Analyzed By: AR

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| 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 |

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

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| 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

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Celero/Tract 7

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| 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 |
| 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 |



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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: March 9, 2010

Work Order: 10022632



Project Location: Chavez County, NM
Project Name: Celero/Rock Queen #7 TB
Project Number: 115-6403130

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 |
|--------|-------------|--------|------------|------------|---------------|
| 223829 | MW-1 | water | 2010-02-25 | 16:40 | 2010-02-26 |

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 15 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 #7 TB were received by TraceAnalysis, Inc. on 2010-02-26 and assigned to work order 10022632. Samples for work order 10022632 were received intact without headspace and at a temperature of 2.6 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 | 58086 | 2010-03-01 at 08:24 | 67894 | 2010-03-01 at 15:26 |
| BTEX | S 8021B | 58101 | 2010-03-01 at 15:45 | 67911 | 2010-03-01 at 17:11 |
| Ca, Dissolved | S 6010B | 58109 | 2010-03-02 at 12:55 | 67940 | 2010-03-02 at 16:17 |
| Chloride (IC) | E 300.0 | 58087 | 2010-03-01 at 12:28 | 67932 | 2010-03-02 at 11:58 |
| Hardness | S 6010B | 58109 | 2010-03-02 at 12:55 | 67940 | 2010-03-02 at 16:17 |
| K, Dissolved | S 6010B | 58109 | 2010-03-02 at 12:55 | 67940 | 2010-03-02 at 16:17 |
| Mg, Dissolved | S 6010B | 58109 | 2010-03-02 at 12:55 | 67940 | 2010-03-02 at 16:17 |
| Na, Dissolved | S 6010B | 58109 | 2010-03-02 at 12:55 | 67940 | 2010-03-02 at 16:17 |
| pH | SM 4500-H+ | 58060 | 2010-02-26 at 16:00 | 67873 | 2010-02-26 at 17:15 |
| SO4 (IC) | E 300.0 | 58087 | 2010-03-01 at 12:28 | 67932 | 2010-03-02 at 11:58 |
| TDS | SM 2540C | 58134 | 2010-03-03 at 08:46 | 68076 | 2010-03-08 at 16:06 |

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 10022632 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: March 9, 2010
115-6403130

Work Order: 10022632
Celero/Rock Queen #7 TB

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Chavez County, NM

Analytical Report

Sample: 223829 - MW-1

Laboratory: Midland
Analysis: Alkalinity
QC Batch: 67894
Prep Batch: 58086

Analytical Method: SM 2320B
Date Analyzed: 2010-03-01
Sample Preparation: 2010-03-01

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 | | 93.0 | mg/L as CaCo3 | 1 | 4.00 |
| Total Alkalinity | | 93.0 | mg/L as CaCo3 | 1 | 4.00 |

Sample: 223829 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 67911
Prep Batch: 58101

Analytical Method: S 8021B
Date Analyzed: 2010-03-01
Sample Preparation: 2010-03-01

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) | | 0.0983 | mg/L | 1 | 0.100 | 98 | 65.9 - 129.8 |
| 4-Bromofluorobenzene (4-BFB) | | 0.101 | mg/L | 1 | 0.100 | 101 | 51.1 - 118.8 |

Sample: 223829 - MW-1

Laboratory: Lubbock
Analysis: Cations
QC Batch: 67940
Prep Batch: 58109

Analytical Method: S 6010B
Date Analyzed: 2010-03-02
Sample Preparation: 2010-03-02

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-------------------|------|--------------|-------|----------|-------|
| Dissolved Calcium | | 8010 | mg/L | 1000 | 0.100 |

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sample 223829 continued ...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---------------------|------|--------------|-------|----------|-------|
| Dissolved Potassium | | 80.0 | mg/L | 1 | 0.100 |
| Dissolved Magnesium | | 2250 | mg/L | 1000 | 0.100 |
| Dissolved Sodium | | 2860 | mg/L | 1000 | 0.100 |

Sample: 223829 - MW-1

| | | |
|-------------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: E 300.0 | Prep Method: N/A |
| Analysis: Chloride (IC) | Date Analyzed: 2010-03-02 | Analyzed By: AR |
| QC Batch: 67932 | Sample Preparation: 2010-03-01 | Prepared By: AR |
| Prep Batch: 58087 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Chloride | | 24000 | mg/L | 500 | 0.500 |

Sample: 223829 - MW-1

| | | |
|---------------------|--------------------------------|------------------|
| Laboratory: Lubbock | Analytical Method: S 6010B | Prep Method: N/A |
| Analysis: Hardness | Date Analyzed: 2010-03-02 | Analyzed By: RR |
| QC Batch: 67940 | Sample Preparation: 2010-03-02 | Prepared By: KV |
| Prep Batch: 58109 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-------------------|------|--------------|---------------|----------|------|
| Hardness (by ICP) | | 29300 | mg eq CaCO3/L | 1 | 0.00 |

Sample: 223829 - MW-1

| | | |
|---------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: SM 4500-H+ | Prep Method: N/A |
| Analysis: pH | Date Analyzed: 2010-02-26 | Analyzed By: AG |
| QC Batch: 67873 | Sample Preparation: 2010-02-26 | Prepared By: AG |
| Prep Batch: 58060 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| pH | | 7.11 | s.u. | 1 | 0.00 |

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Sample: 223829 - MW-1

Laboratory: Midland
Analysis: SO4 (IC)
QC Batch: 67932
Prep Batch: 58087

Analytical Method: E 300.0
Date Analyzed: 2010-03-02
Sample Preparation: 2010-03-01

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Sulfate | | 463 | mg/L | 50 | 0.500 |

Sample: 223829 - MW-1

Laboratory: Midland
Analysis: TDS
QC Batch: 68076
Prep Batch: 58134

Analytical Method: SM 2540C
Date Analyzed: 2010-03-08
Sample Preparation: 2010-03-03

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 38300 | mg/L | 100 | 10.0 |

Method Blank (1) QC Batch: 67894

QC Batch: 67894
Prep Batch: 58086

Date Analyzed: 2010-03-01
QC Preparation: 2010-03-01

Analyzed By: AR
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: 67911

QC Batch: 67911
Prep Batch: 58101

Date Analyzed: 2010-03-01
QC Preparation: 2010-03-01

Analyzed By: AG
Prepared By: AG

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

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method blank continued ...

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| 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) | | 0.0991 | mg/L | 1 | 0.100 | 99 | 73.6 - 126.6 |
| 4-Bromofluorobenzene (4-BFB) | | 0.102 | mg/L | 1 | 0.100 | 102 | 62.6 - 117.5 |

Method Blank (1) QC Batch: 67932

QC Batch: 67932
Prep Batch: 58087

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-01

Analyzed By: AR
Prepared By: AR

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

Method Blank (1) QC Batch: 67932

QC Batch: 67932
Prep Batch: 58087

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-01

Analyzed By: AR
Prepared By: AR

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

Method Blank (1) QC Batch: 67940

QC Batch: 67940
Prep Batch: 58109

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-02

Analyzed By: RR
Prepared By: KV

| Parameter | Flag | MDL Result | Units | RL |
|---------------------|------|---------------|-------|-----|
| Dissolved Calcium | | <0.00216 | mg/L | 0.1 |
| Dissolved Potassium | | <0.00645 | mg/L | 0.1 |
| Dissolved Magnesium | | <0.00594 | mg/L | 0.1 |
| Dissolved Sodium | | <0.00548 | mg/L | 0.1 |

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Method Blank (1) QC Batch: 68076

QC Batch: 68076
Prep Batch: 58134

Date Analyzed: 2010-03-08
QC Preparation: 2010-03-03

Analyzed By: AR
Prepared By: AR

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

Duplicates (1) Duplicated Sample: 223824

QC Batch: 67873
Prep Batch: 58060

Date Analyzed: 2010-02-26
QC Preparation: 2010-02-26

Analyzed By: AG
Prepared By: AG

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|-------|---------------------|------------------|-------|----------|-----|--------------|
| pH | 6.22 | 6.24 | s.u. | 1 | 0 | 1.5 |

Duplicates (1) Duplicated Sample: 223818

QC Batch: 67894
Prep Batch: 58086

Date Analyzed: 2010-03-01
QC Preparation: 2010-03-01

Analyzed By: AR
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 | 192 | 194 | mg/L as CaCo3 | 1 | 1 | 20 |
| Total Alkalinity | 192 | 194 | mg/L as CaCo3 | 1 | 1 | 20 |

Duplicates (1) Duplicated Sample: 224053

QC Batch: 68076
Prep Batch: 58134

Date Analyzed: 2010-03-08
QC Preparation: 2010-03-03

Analyzed By: AR
Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---------------------|------------------|-------|----------|-----|--------------|
| Total Dissolved Solids | 2240 | 2310 | mg/L | 5 | 3 | 10 |

Laboratory Control Spike (LCS-1)

QC Batch: 67911
Prep Batch: 58101

Date Analyzed: 2010-03-01
QC Preparation: 2010-03-01

Analyzed By: AG
Prepared By: AG

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| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | 0.0949 | mg/L | 1 | 0.100 | <0.000300 | 95 | 79.4 - 112.4 |
| Toluene | 0.0942 | mg/L | 1 | 0.100 | <0.000200 | 94 | 79.3 - 110 |
| Ethylbenzene | 0.0935 | mg/L | 1 | 0.100 | <0.000200 | 94 | 73.8 - 113.1 |
| Xylene | 0.282 | mg/L | 1 | 0.300 | <0.000900 | 94 | 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 | 0.0957 | mg/L | 1 | 0.100 | <0.000300 | 96 | 79.4 - 112.4 | 1 | 20 |
| Toluene | 0.0954 | mg/L | 1 | 0.100 | <0.000200 | 95 | 79.3 - 110 | 1 | 20 |
| Ethylbenzene | 0.0952 | mg/L | 1 | 0.100 | <0.000200 | 95 | 73.8 - 113.1 | 2 | 20 |
| Xylene | 0.287 | mg/L | 1 | 0.300 | <0.000900 | 96 | 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) | 0.0954 | 0.0943 | mg/L | 1 | 0.100 | 95 | 94 | 76.2 - 129.6 |
| 4-Bromofluorobenzene (4-BFB) | 0.112 | 0.111 | mg/L | 1 | 0.100 | 112 | 111 | 77.9 - 119.8 |

Laboratory Control Spike (LCS-1)

QC Batch: 67932
Prep Batch: 58087

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-01

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | 23.7 | mg/L | 1 | 25.0 | <0.475 | 95 | 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 | <0.475 | 95 | 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: 67932
Prep Batch: 58087

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-01

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | 23.2 | mg/L | 1 | 25.0 | <0.217 | 93 | 90 - 110 |

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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 | 23.1 | mg/L | 1 | 25.0 | <0.217 | 92 | 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: 67940
Prep Batch: 58109

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-02

Analyzed By: RR
Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Dissolved Calcium | 52.9 | mg/L | 1 | 50.0 | <0.00216 | 106 | 85 - 115 |
| Dissolved Potassium | 51.6 | mg/L | 1 | 50.0 | <0.00645 | 103 | 85 - 115 |
| Dissolved Magnesium | 53.9 | mg/L | 1 | 50.0 | <0.00594 | 108 | 85 - 115 |
| Dissolved Sodium | 50.6 | mg/L | 1 | 50.0 | <0.00548 | 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 |
|---------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Dissolved Calcium | 51.0 | mg/L | 1 | 50.0 | <0.00216 | 102 | 85 - 115 | 4 | 20 |
| Dissolved Potassium | 49.7 | mg/L | 1 | 50.0 | <0.00645 | 99 | 85 - 115 | 4 | 20 |
| Dissolved Magnesium | 51.5 | mg/L | 1 | 50.0 | <0.00594 | 103 | 85 - 115 | 5 | 20 |
| Dissolved Sodium | 49.0 | mg/L | 1 | 50.0 | <0.00548 | 98 | 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: 68076
Prep Batch: 58134

Date Analyzed: 2010-03-08
QC Preparation: 2010-03-03

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids | 1010 | mg/L | 1 | 1000 | <9.75 | 101 | 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 | 0 | 10 |

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

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Matrix Spike (MS-1) Spiked Sample: 223853

QC Batch: 67911
Prep Batch: 58101

Date Analyzed: 2010-03-01
QC Preparation: 2010-03-01

Analyzed By: AG
Prepared By: AG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | 10.9 | mg/L | 50 | 5.00 | 5.9567 | 99 | 77.3 - 117.4 |
| Toluene | 6.30 | mg/L | 50 | 5.00 | 1.5038 | 96 | 75 - 111.8 |
| Ethylbenzene | 5.23 | mg/L | 50 | 5.00 | 0.5072 | 94 | 78.8 - 106.6 |
| Xylene | 14.6 | mg/L | 50 | 15.0 | 0.6358 | 93 | 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 | 10.6 | mg/L | 50 | 5.00 | 5.9567 | 93 | 77.3 - 117.4 | 3 | 20 |
| Toluene | 5.98 | mg/L | 50 | 5.00 | 1.5038 | 90 | 75 - 111.8 | 5 | 20 |
| Ethylbenzene | 4.79 | mg/L | 50 | 5.00 | 0.5072 | 86 | 78.8 - 106.6 | 9 | 20 |
| Xylene | 13.5 | mg/L | 50 | 15.0 | 0.6358 | 86 | 68.9 - 114 | 8 | 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) | 4.41 | 4.27 | mg/L | 50 | 5 | 88 | 85 | 76.3 - 129.8 |
| 4-Bromofluorobenzene (4-BFB) | 5.17 | 4.98 | mg/L | 50 | 5 | 103 | 100 | 75.2 - 112.8 |

Matrix Spike (MS-1) Spiked Sample: 223829

QC Batch: 67932
Prep Batch: 58087

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-01

Analyzed By: AR
Prepared By: AR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|--------------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | ¹ 27200 | mg/L | 50 | 1380 | 24013 | 232 | 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 | ² 27300 | mg/L | 50 | 1380 | 24013 | 239 | 90 - 110 | 0 | |

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

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

² MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

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Matrix Spike (MS-1) Spiked Sample: 223829

QC Batch: 67932
Prep Batch: 58087

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-01

Analyzed By: AR
Prepared By: AR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|-------------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | ³ 1500 | mg/L | 50 | 1380 | 463 | 75 | 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 | ⁴ 1590 | mg/L | 50 | 1380 | 463 | 82 | 90 - 110 | 6 | |

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

Matrix Spike (MS-1) Spiked Sample: 223817

QC Batch: 67940
Prep Batch: 58109

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-02

Analyzed By: RR
Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Dissolved Calcium | 366 | mg/L | 1 | 50.0 | 306 | 120 | 75 - 125 |
| Dissolved Potassium | 72.6 | mg/L | 1 | 50.0 | 20.6 | 104 | 75 - 125 |
| Dissolved Magnesium | 117 | mg/L | 1 | 50.0 | 71 | 92 | 75 - 125 |
| Dissolved Sodium | 485 | mg/L | 1 | 50.0 | 439 | 92 | 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 |
|---------------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Dissolved Calcium | 356 | mg/L | 1 | 50.0 | 306 | 100 | 75 - 125 | 3 | 20 |
| Dissolved Potassium | 75.6 | mg/L | 1 | 50.0 | 20.6 | 110 | 75 - 125 | 4 | 20 |
| Dissolved Magnesium | 120 | mg/L | 1 | 50.0 | 71 | 98 | 75 - 125 | 2 | 20 |
| Dissolved Sodium | 486 | mg/L | 1 | 50.0 | 439 | 94 | 75 - 125 | 0 | 20 |

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

Standard (ICV-1)

QC Batch: 67873

Date Analyzed: 2010-02-26

Analyzed By: AG

³Matrix spike recovery out of control limits due to peak 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.

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| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| pH | | s.u. | 7.00 | 6.99 | 100 | 98 - 102 | 2010-02-26 |

Standard (CCV-1)

QC Batch: 67873

Date Analyzed: 2010-02-26

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| pH | | s.u. | 7.00 | 6.93 | 99 | 98 - 102 | 2010-02-26 |

Standard (ICV-1)

QC Batch: 67894

Date Analyzed: 2010-03-01

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 | 17.0 | | 0 - 200 | 2010-03-01 |
| Carbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 244 | | 0 - 200 | 2010-03-01 |
| Bicarbonate Alkalinity | | mg/L as CaCo3 | 0.00 | <4.00 | | 0 - 200 | 2010-03-01 |
| Total Alkalinity | | mg/L as CaCo3 | 250 | 261 | 104 | 90 - 110 | 2010-03-01 |

Standard (CCV-1)

QC Batch: 67894

Date Analyzed: 2010-03-01

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 | 29.0 | | 0 - 200 | 2010-03-01 |
| Carbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 224 | | 0 - 200 | 2010-03-01 |
| Bicarbonate Alkalinity | | mg/L as CaCo3 | 0.00 | <4.00 | | 0 - 200 | 2010-03-01 |
| Total Alkalinity | | mg/L as CaCo3 | 250 | 253 | 101 | 90 - 110 | 2010-03-01 |

Standard (CCV-1)

QC Batch: 67911

Date Analyzed: 2010-03-01

Analyzed By: AG

Report Date: March 9, 2010
115-6403130

Work Order: 10022632
Celero/Rock Queen #7 TB

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Chavez County, NM

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0875 | 88 | 80 - 120 | 2010-03-01 |
| Toluene | | mg/L | 0.100 | 0.0857 | 86 | 80 - 120 | 2010-03-01 |
| Ethylbenzene | | mg/L | 0.100 | 0.0823 | 82 | 80 - 120 | 2010-03-01 |
| Xylene | | mg/L | 0.300 | 0.249 | 83 | 80 - 120 | 2010-03-01 |

Standard (CCV-2)

QC Batch: 67911

Date Analyzed: 2010-03-01

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 | 0.0945 | 94 | 80 - 120 | 2010-03-01 |
| Toluene | | mg/L | 0.100 | 0.0943 | 94 | 80 - 120 | 2010-03-01 |
| Ethylbenzene | | mg/L | 0.100 | 0.0941 | 94 | 80 - 120 | 2010-03-01 |
| Xylene | | mg/L | 0.300 | 0.283 | 94 | 80 - 120 | 2010-03-01 |

Standard (ICV-1)

QC Batch: 67932

Date Analyzed: 2010-03-02

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 | 23.4 | 94 | 90 - 110 | 2010-03-02 |

Standard (ICV-1)

QC Batch: 67932

Date Analyzed: 2010-03-02

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 | 25.3 | 101 | 90 - 110 | 2010-03-02 |

Standard (CCV-1)

QC Batch: 67932

Date Analyzed: 2010-03-02

Analyzed By: AR

Report Date: March 9, 2010
115-6403130

Work Order: 10022632
Celero/Rock Queen #7 TB

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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 | 23.0 | 92 | 90 - 110 | 2010-03-02 |

Standard (CCV-1)

QC Batch: 67932

Date Analyzed: 2010-03-02

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 | 24.9 | 100 | 90 - 110 | 2010-03-02 |

Standard (ICV-1)

QC Batch: 67940

Date Analyzed: 2010-03-02

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 | 51.3 | 103 | 90 - 110 | 2010-03-02 |
| Dissolved Potassium | | mg/L | 50.0 | 50.3 | 101 | 90 - 110 | 2010-03-02 |
| Dissolved Magnesium | | mg/L | 50.0 | 51.6 | 103 | 90 - 110 | 2010-03-02 |
| Dissolved Sodium | | mg/L | 50.0 | 49.8 | 100 | 90 - 110 | 2010-03-02 |

Standard (CCV-1)

QC Batch: 67940

Date Analyzed: 2010-03-02

Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium | | mg/L | 51.0 | 50.5 | 99 | 90 - 110 | 2010-03-02 |
| Dissolved Potassium | | mg/L | 55.0 | 55.3 | 100 | 90 - 110 | 2010-03-02 |
| Dissolved Magnesium | | mg/L | 51.0 | 50.6 | 99 | 90 - 110 | 2010-03-02 |
| Dissolved Sodium | | mg/L | 51.0 | 51.2 | 100 | 90 - 110 | 2010-03-02 |



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Certifications

WBENC: 237019

HUB: 1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

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: July 27, 2010

Work Order: 10071412



Project Location: Chavez County, NM
Project Name: Celero/Rock Queen #7 TB
Project Number: 115-6403130

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 |
|--------|-------------|--------|------------|------------|---------------|
| 237456 | MW-1 | water | 2010-07-13 | 13:45 | 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 10 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 #7 TB were received by TraceAnalysis, Inc. on 2010-07-14 and assigned to work order 10071412. Samples for work order 10071412 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 | 61482 | 2010-07-15 at 09:54 | 71929 | 2010-07-16 at 03:27 |
| SO4 (IC) | E 300.0 | 61482 | 2010-07-15 at 09:54 | 71929 | 2010-07-16 at 03:27 |
| 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 10071412 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
115-6403130

Work Order: 10071412
Celero/Rock Queen #7 TB

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Analytical Report

Sample: 237456 - 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 | | <0.00100 | 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 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0877 | mg/L | 1 | 0.100 | 88 | 51.1 - 128 |

Sample: 237456 - MW-1

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 71929
Prep Batch: 61482

Analytical Method: E 300.0
Date Analyzed: 2010-07-16
Sample Preparation: 2010-07-15

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 3060 | mg/L | 500 | 2.50 |

Sample: 237456 - MW-1

Laboratory: Midland
Analysis: SO4 (IC)
QC Batch: 71929
Prep Batch: 61482

Analytical Method: E 300.0
Date Analyzed: 2010-07-16
Sample Preparation: 2010-07-15

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 316 | mg/L | 50 | 2.50 |

Report Date: July 27, 2010
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Work Order: 10071412
Celero/Rock Queen #7 TB

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Chavez County, NM

Sample: 237456 - 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 | | 5910 | mg/L | 5 | 10.0 |

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: 71929

QC Batch: 71929
Prep Batch: 61482

Date Analyzed: 2010-07-16
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Chloride | | 0.462 | mg/L | 2.5 |

Method Blank (1) QC Batch: 71929

QC Batch: 71929
Prep Batch: 61482

Date Analyzed: 2010-07-16
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

Report Date: July 27, 2010
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Work Order: 10071412
Celero/Rock Queen #7 TB

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

Method Blank (1) QC Batch: 72039

QC Batch: 72039 Date Analyzed: 2010-07-26 Analyzed By: AR
Prep Batch: 61516 QC Preparation: 2010-07-15 Prepared By: AR

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

Duplicates (2) Duplicated Sample: 237468

QC Batch: 72039 Date Analyzed: 2010-07-26 Analyzed By: AR
Prep Batch: 61516 QC Preparation: 2010-07-15 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 Date Analyzed: 2010-07-14 Analyzed By: AG
Prep Batch: 61451 QC Preparation: 2010-07-14 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.

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115-6403130

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| 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: 71929
Prep Batch: 61482

Date Analyzed: 2010-07-16
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | 25.6 | mg/L | 1 | 25.0 | <0.265 | 102 | 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 | 25.1 | mg/L | 1 | 25.0 | <0.265 | 100 | 90 - 110 | 2 | 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: 71929
Prep Batch: 61482

Date Analyzed: 2010-07-16
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | 24.9 | mg/L | 1 | 25.0 | <0.177 | 100 | 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 | 25.0 | mg/L | 1 | 25.0 | <0.177 | 100 | 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 |

Report Date: July 27, 2010
115-6403130

Work Order: 10071412
Celero/Rock Queen #7 TB

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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 | ¹ 0.0695 | mg/L | 1 | 0.100 | <0.000800 | 70 | 75.3 - 110 |
| Xylene | ² 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 | ³ 0.0719 | mg/L | 1 | 0.100 | <0.000600 | 72 | 78.3 - 111 | 11 | 20 |
| Ethylbenzene | ⁴ 0.0623 | mg/L | 1 | 0.100 | <0.000800 | 62 | 75.3 - 110 | 11 | 20 |
| Xylene | ⁵ 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) | ^{6 7} 0.0434 | 0.0551 | mg/L | 1 | 0.1 | 43 | 55 | 68.3 - 107 |
| 4-Bromofluorobenzene (4-BFB) | ^{8 9} 0.0418 | 0.0525 | mg/L | 1 | 0.1 | 42 | 52 | 60.1 - 135 |

Matrix Spike (MS-1) Spiked Sample: 237459

QC Batch: 71929
Prep Batch: 61482

Date Analyzed: 2010-07-16
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

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

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

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

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

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

⁶ Surrogate TFT out due to matrix interference. Sample was not reran due to lack of sample.

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

⁸ Surrogate 4-BFB out due to matrix interference. Sample was not reran due to lack of sample.

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

Report Date: July 27, 2010
115-6403130

Work Order: 10071412
Celero/Rock Queen #7 TB

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| Param | | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | ¹⁰ | 15500 | mg/L | 100 | 2750 | 12350 | 114 | 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 Limit |
|----------|---------------|---------------|-------|------|-----------------|------------------|------|---------------|--------------|
| Chloride | ¹¹ | 15500 | mg/L | 100 | 2750 | 12350 | 114 | 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: 237459

QC Batch: 71929
Prep Batch: 61482

Date Analyzed: 2010-07-16
QC Preparation: 2010-07-15

Analyzed By: AR
Prepared By: AR

| Param | | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | ¹² | 2500 | mg/L | 100 | 2750 | 181 | 84 | 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 Limit |
|---------|---------------|---------------|-------|------|-----------------|------------------|------|---------------|--------------|
| Sulfate | ¹³ | 2500 | mg/L | 100 | 2750 | 181 | 84 | 90 - 110 | 0 |

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

¹⁰Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹¹MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

¹²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹³MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

Report Date: July 27, 2010
115-6403130

Work Order: 10071412
Celero/Rock Queen #7 TB

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| 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: 71929

Date Analyzed: 2010-07-16

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 | 27.3 | 109 | 90 - 110 | 2010-07-16 |

Standard (ICV-1)

QC Batch: 71929

Date Analyzed: 2010-07-16

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 | 23.9 | 96 | 90 - 110 | 2010-07-16 |

Standard (CCV-1)

QC Batch: 71929

Date Analyzed: 2010-07-16

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 | 26.9 | 108 | 90 - 110 | 2010-07-16 |

Standard (CCV-1)

QC Batch: 71929

Date Analyzed: 2010-07-16

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 | 26.4 | 106 | 90 - 110 | 2010-07-16 |

Analysis Request of Chain of Custody Record

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OF: 1

ANALYSIS REQUEST

(Circle or Specify Method No.)



TETRA TECH

**1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-4560**

(432) 682-4559 • Fax (432) 682-3946

[illegible]

REMARKS:

~~X 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.



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

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: November 10, 2010

Work Order: 10101414



Project Location: Chavez County, NM
Project Name: Celero/Rock Queen #7 TB
Project Number: 115-6403130

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 |
|--------|-------------|--------|------------|------------|---------------|
| 247533 | MW-1 | water | 2010-10-13 | 09:15 | 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 10 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 #7 TB were received by TraceAnalysis, Inc. on 2010-10-13 and assigned to work order 10101414. Samples for work order 10101414 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 | 64403 | 2010-11-03 at 10:35 | 75072 | 2010-11-03 at 20:21 |
| SO4 (IC) | E 300.0 | 64531 | 2010-11-09 at 10:50 | 75231 | 2010-11-09 at 22:48 |
| 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 10101414 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: November 10, 2010
115-6403130

Work Order: 10101414
Celero/Rock Queen #7 TB

Page Number: 4 of 10
Chavez County, NM

Analytical Report

Sample: 247533 - 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 | | <0.00100 | 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) | | 0.0886 | mg/L | 1 | 0.100 | 89 | 66.2 - 107 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0727 | mg/L | 1 | 0.100 | 73 | 39 - 138 |

Sample: 247533 - MW-1

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 75072
Prep Batch: 64403

Analytical Method: E 300.0
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-03

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 20000 | mg/L | 1000 | 2.50 |

Sample: 247533 - MW-1

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 75231
Prep Batch: 64531

Analytical Method: E 300.0
Date Analyzed: 2010-11-09
Sample Preparation: 2010-11-09

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 960 | mg/L | 50 | 2.50 |

Report Date: November 10, 2010
115-6403130

Work Order: 10101414
Celero/Rock Queen #7 TB

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Chavez County, NM

Sample: 247533 - 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 | | 48400 | mg/L | 100 | 10.0 |

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: 75072

QC Batch: 75072
Prep Batch: 64403

Date Analyzed: 2010-11-03
QC Preparation: 2010-11-03

Analyzed By: PG
Prepared By: PG

Report Date: November 10, 2010
115-6403130

Work Order: 10101414
Celero/Rock Queen #7 TB

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Chavez County, NM

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

Method Blank (1) QC Batch: 75231

QC Batch: 75231 Date Analyzed: 2010-11-09 Analyzed By: PG
Prep Batch: 64531 QC Preparation: 2010-11-09 Prepared By: PG

| 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.

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Celero/Rock Queen #7 TB

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| 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-2)

QC Batch: 74622
Prep Batch: 63873

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

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids | 1020 | mg/L | 1 | 1000 | <9.75 | 102 | 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 | 1 | 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: 75072
Prep Batch: 64403

Date Analyzed: 2010-11-03
QC Preparation: 2010-11-03

Analyzed By: PG
Prepared By: PG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | 24.4 | mg/L | 1 | 25.0 | <0.0350 | 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 |
|----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | 23.8 | mg/L | 1 | 25.0 | <0.0350 | 95 | 90 - 110 | 2 | 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: 75231
Prep Batch: 64531

Date Analyzed: 2010-11-09
QC Preparation: 2010-11-09

Analyzed By: PG
Prepared By: PG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | 24.0 | mg/L | 1 | 25.0 | <0.596 | 96 | 90 - 110 |

Report Date: November 10, 2010
115-6403130

Work Order: 10101414
Celero/Rock Queen #7 TB

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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 |
|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | 23.9 | mg/L | 1 | 25.0 | <0.596 | 96 | 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: 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 | ¹ | 0.0817 | mg/L | 1 | 0.100 | 0.0048 | 77 | 60.9 - 132 | 27 | 20 |
| Toluene | ² | 0.0712 | mg/L | 1 | 0.100 | <0.000800 | 71 | 65.7 - 129 | 26 | 20 |
| Ethylbenzene | ³ | 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) | ⁴ ⁵ | 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: 248210

QC Batch: 75072
Prep Batch: 64403

Date Analyzed: 2010-11-03
QC Preparation: 2010-11-03

Analyzed By: PG
Prepared By: PG

continued ...

¹MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

²MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

³MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁴High surrogate recovery due to peak interference.

⁵High surrogate recovery due to peak interference.

Report Date: November 10, 2010
115-6403130

Work Order: 10101414
Celero/Rock Queen #7 TB

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Chavez County, NM

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 | 1300 | mg/L | 50 | 1250 | <1.75 | 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 |
|----------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | 1300 | mg/L | 50 | 1250 | <1.75 | 104 | 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: 249831

QC Batch: 75231
Prep Batch: 64531

Date Analyzed: 2010-11-09
QC Preparation: 2010-11-09

Analyzed By: PG
Prepared By: PG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | 1290 | mg/L | 50 | 1250 | <29.8 | 103 | 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 | 1290 | mg/L | 50 | 1250 | <29.8 | 103 | 90 - 110 | 0 | 20 |

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

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-3)

QC Batch: 74557

Date Analyzed: 2010-10-14

Analyzed By: AG

Report Date: November 10, 2010
115-6403130

Work Order: 10101414
Celero/Rock Queen #7 TB

Page Number: 10 of 10
Chavez County, NM

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0998 | 100 | 80 - 120 | 2010-10-14 |
| Toluene | | mg/L | 0.100 | 0.100 | 100 | 80 - 120 | 2010-10-14 |
| Ethylbenzene | | mg/L | 0.100 | 0.0964 | 96 | 80 - 120 | 2010-10-14 |
| Xylene | | mg/L | 0.300 | 0.288 | 96 | 80 - 120 | 2010-10-14 |

Standard (CCV-1)

QC Batch: 75072

Date Analyzed: 2010-11-03

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 | 25.0 | 100 | 90 - 110 | 2010-11-03 |

Standard (CCV-2)

QC Batch: 75072

Date Analyzed: 2010-11-03

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 | 24.7 | 99 | 90 - 110 | 2010-11-03 |

Standard (CCV-1)

QC Batch: 75231

Date Analyzed: 2010-11-09

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 | 23.7 | 95 | 90 - 110 | 2010-11-09 |

Standard (CCV-2)

QC Batch: 75231

Date Analyzed: 2010-11-09

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 | 2010-11-09 |

Lab # 10101414

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 1

ANALYSIS REQUEST
(Circle or Specify Method No.)



TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

| | | | |
|-------------------------------------|------------------------|--|---|
| CLIENT NAME: <i>Calico</i> | | SITE MANAGER: <i>J.H. Kelly</i> | |
| PROJECT NO.: <i>10101414</i> | | PROJECT NAME: <i>Rock Quarry #7</i> | |
| LAB I.D. NUMBER <i>247532</i> | DATE <i>3/13/03</i> | TIME <i>05:00</i> | SAMPLE IDENTIFICATION <i>Quarry #7</i> |
| | MATRIX <i>M</i> | COMP. <i>X</i> | |
| PRESERVATIVE METHOD | | NUMBER OF CONTAINERS | |
| HCL | | 4 | |
| HNO3 | | 3 | |
| ICE | | 1 | |
| NONE | | 1 | |
| TPH 8015 MOD. TX1005 (Ext to C35) | | X | |
| 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 8080/608 | | | |
| Pest. 808/808 | | | |
| Chlordane | | X | |
| Gamma Spec. | | | |
| Alpha Beta (Am) | | | |
| PLM (Asbestos) | | X | |
| Major Anions/Cations, pH, TDS | | X | |

| | | | |
|--|--|-------------------------|--------------------|
| RELINQUISHED BY: (Signature) <i>[Signature]</i> | RECEIVED BY: (Signature) <i>[Signature]</i> | DATE: <i>3/13/03</i> | TIME: <i>10:45</i> |
| RELINQUISHED BY: (Signature) <i>[Signature]</i> | RECEIVED BY: (Signature) <i>[Signature]</i> | DATE: <i>3/14/03</i> | TIME: <i>10:00</i> |
| RELINQUISHED BY: (Signature) <i>[Signature]</i> | RECEIVED BY: (Signature) <i>[Signature]</i> | DATE: <i>3/14/03</i> | TIME: <i>10:00</i> |
| RECEIVING LABORATORY: ADDRESS: <i>Midland - Box 105</i> | | DATE: <i>3/13/03</i> | |
| CITY: <i>Midland</i> | | STATE: <i>TX</i> | |
| CONTACT: <i>1313.0 IS</i> | | PHONE: <i>1313.0 IS</i> | |
| REMARKS: <i>Midland - Box 105</i> | | | |

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

127 K566 11.4



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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 3, 2011

Work Order: 11012129



Project Location: Chavez County, NM
Project Name: Celero/Rock Queen #7 TB
Project Number: 115-6403130

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 |
|--------|-------------|--------|------------|------------|---------------|
| 255903 | MW-1 | water | 2011-01-20 | 18:19 | 2011-01-21 |
| 255904 | MW-2 | water | 2011-01-20 | 18:00 | 2011-01-21 |
| 255905 | MW-3 | water | 2011-01-20 | 18:12 | 2011-01-21 |
| 255906 | MW-4 | water | 2011-01-20 | 18:16 | 2011-01-21 |
| 255907 | Rinseate | water | 2011-01-20 | 16:45 | 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 18 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 fluid and cursive, with the first name "Michael" and last name "Abel" clearly distinguishable.

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 #7 TB were received by TraceAnalysis, Inc. on 2011-01-21 and assigned to work order 11012129. Samples for work order 11012129 were received intact without headspace and at a temperature of 12.3 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 | 66157 | 2011-01-24 at 11:00 | 77124 | 2011-01-24 at 13:17 |
| Chloride (IC) | E 300.0 | 66273 | 2011-01-30 at 10:00 | 77266 | 2011-01-30 at 17:14 |
| SO4 (IC) | E 300.0 | 66273 | 2011-01-30 at 10:00 | 77266 | 2011-01-30 at 17:14 |
| SO4 (IC) | E 300.0 | 66364 | 2011-02-01 at 10:33 | 77367 | 2011-02-01 at 12:49 |
| TDS | SM 2540C | 66128 | 2011-01-24 at 11:48 | 77161 | 2011-01-26 at 15:20 |
| TDS | SM 2540C | 66142 | 2011-01-24 at 11:30 | 77255 | 2011-01-31 at 10:09 |

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 11012129 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: February 3, 2011
115-6403130

Work Order: 11012129
Celero/Rock Queen #7 TB

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Chavez County, NM

Analytical Report

Sample: 255903 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 77124
Prep Batch: 66157

Analytical Method: S 8021B
Date Analyzed: 2011-01-24
Sample Preparation: 2011-01-24

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) | | 0.108 | mg/L | 1 | 0.100 | 108 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.100 | mg/L | 1 | 0.100 | 100 | 51.1 - 128 |

Sample: 255903 - MW-1

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 77266
Prep Batch: 66273

Analytical Method: E 300.0
Date Analyzed: 2011-01-30
Sample Preparation: 2011-01-30

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 18200 | mg/L | 1000 | 2.50 |

Sample: 255903 - MW-1

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 77266
Prep Batch: 66273

Analytical Method: E 300.0
Date Analyzed: 2011-01-30
Sample Preparation: 2011-01-30

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | <2500 | mg/L | 1000 | 2.50 |

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115-6403130

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Celero/Rock Queen #7 TB

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Sample: 255903 - MW-1

Laboratory: Midland
Analysis: TDS
QC Batch: 77161
Prep Batch: 66128

Analytical Method: SM 2540C
Date Analyzed: 2011-01-26
Sample Preparation: 2011-01-24

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 38600 | mg/L | 100 | 10.0 |

Sample: 255904 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 77124
Prep Batch: 66157

Analytical Method: S 8021B
Date Analyzed: 2011-01-24
Sample Preparation: 2011-01-24

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 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0992 | mg/L | 1 | 0.100 | 99 | 51.1 - 128 |

Sample: 255904 - MW-2

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 77266
Prep Batch: 66273

Analytical Method: E 300.0
Date Analyzed: 2011-01-30
Sample Preparation: 2011-01-30

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 45100 | mg/L | 10000 | 2.50 |

Report Date: February 3, 2011
115-6403130

Work Order: 11012129
Celero/Rock Queen #7 TB

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Chavez County, NM

Sample: 255904 - MW-2

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 77367
Prep Batch: 66364

Analytical Method: E 300.0
Date Analyzed: 2011-02-01
Sample Preparation: 2011-02-01

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 1250 | mg/L | 50 | 2.50 |

Sample: 255904 - MW-2

Laboratory: Midland
Analysis: TDS
QC Batch: 77161
Prep Batch: 66128

Analytical Method: SM 2540C
Date Analyzed: 2011-01-26
Sample Preparation: 2011-01-24

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 78200 | mg/L | 100 | 10.0 |

Sample: 255905 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 77124
Prep Batch: 66157

Analytical Method: S 8021B
Date Analyzed: 2011-01-24
Sample Preparation: 2011-01-24

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) | | 0.108 | mg/L | 1 | 0.100 | 108 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.101 | mg/L | 1 | 0.100 | 101 | 51.1 - 128 |

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115-6403130

Work Order: 11012129
Celero/Rock Queen #7 TB

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Sample: 255905 - MW-3

| | | | | | |
|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | Chloride (IC) | Date Analyzed: | 2011-01-30 | Analyzed By: | PG |
| QC Batch: | 77266 | Sample Preparation: | 2011-01-30 | Prepared By: | PG |
| Prep Batch: | 66273 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 47500 | mg/L | 5000 | 2.50 |

Sample: 255905 - MW-3

| | | | | | |
|-------------|----------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | SO4 (IC) | Date Analyzed: | 2011-02-01 | Analyzed By: | PG |
| QC Batch: | 77367 | Sample Preparation: | 2011-02-01 | Prepared By: | PG |
| Prep Batch: | 66364 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 1750 | mg/L | 50 | 2.50 |

Sample: 255905 - MW-3

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | SM 2540C | Prep Method: | N/A |
| Analysis: | TDS | Date Analyzed: | 2011-01-26 | Analyzed By: | AR |
| QC Batch: | 77161 | Sample Preparation: | 2011-01-24 | Prepared By: | AR |
| Prep Batch: | 66128 | | | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 81800 | mg/L | 100 | 10.0 |

Sample: 255906 - MW-4

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Midland | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2011-01-24 | Analyzed By: | AG |
| QC Batch: | 77124 | Sample Preparation: | 2011-01-24 | Prepared By: | AG |
| Prep Batch: | 66157 | | | | |

| 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: February 3, 2011
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Work Order: 11012129
Celero/Rock Queen #7 TB

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Chavez County, NM

sample 255906 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) | | 0.114 | mg/L | 1 | 0.100 | 114 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.103 | mg/L | 1 | 0.100 | 103 | 51.1 - 128 |

Sample: 255906 - MW-4

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 77266
Prep Batch: 66273

Analytical Method: E 300.0
Date Analyzed: 2011-01-30
Sample Preparation: 2011-01-30

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 279 | mg/L | 50 | 2.50 |

Sample: 255906 - MW-4

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 77266
Prep Batch: 66273

Analytical Method: E 300.0
Date Analyzed: 2011-01-30
Sample Preparation: 2011-01-30

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | <125 | mg/L | 50 | 2.50 |

Sample: 255906 - MW-4

Laboratory: Midland
Analysis: TDS
QC Batch: 77255
Prep Batch: 66142

Analytical Method: SM 2540C
Date Analyzed: 2011-01-31
Sample Preparation: 2011-01-25

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 792 | mg/L | 2 | 10.0 |

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Celero/Rock Queen #7 TB

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Sample: 255907 - Rinseate

Laboratory: Midland
Analysis: BTEX
QC Batch: 77124
Prep Batch: 66157

Analytical Method: S 8021B
Date Analyzed: 2011-01-24
Sample Preparation: 2011-01-24

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) | | 0.108 | mg/L | 1 | 0.100 | 108 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.100 | mg/L | 1 | 0.100 | 100 | 51.1 - 128 |

Sample: 255907 - Rinseate

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 77266
Prep Batch: 66273

Analytical Method: E 300.0
Date Analyzed: 2011-01-30
Sample Preparation: 2011-01-30

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | <12.5 | mg/L | 5 | 2.50 |

Sample: 255907 - Rinseate

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 77266
Prep Batch: 66273

Analytical Method: E 300.0
Date Analyzed: 2011-01-30
Sample Preparation: 2011-01-30

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | <12.5 | mg/L | 5 | 2.50 |

Report Date: February 3, 2011
115-6403130

Work Order: 11012129
Celero/Rock Queen #7 TB

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Chavez County, NM

Sample: 255907 - Rinseate

Laboratory: Midland
Analysis: TDS
QC Batch: 77255
Prep Batch: 66142

Analytical Method: SM 2540C
Date Analyzed: 2011-01-31
Sample Preparation: 2011-01-25

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

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 74.0 | mg/L | 1 | 10.0 |

Method Blank (1) QC Batch: 77124

QC Batch: 77124
Prep Batch: 66157

Date Analyzed: 2011-01-24
QC Preparation: 2011-01-24

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) | | 0.115 | mg/L | 1 | 0.100 | 115 | 70.2 - 118 |
| 4-Bromofluorobenzene (4-BFB) | | 0.111 | mg/L | 1 | 0.100 | 111 | 47.3 - 116 |

Method Blank (1) QC Batch: 77161

QC Batch: 77161
Prep Batch: 66128

Date Analyzed: 2011-01-26
QC Preparation: 2011-01-24

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: 77255

QC Batch: 77255
Prep Batch: 66142

Date Analyzed: 2011-01-31
QC Preparation: 2011-01-24

Analyzed By: AR
Prepared By: AR

Report Date: February 3, 2011
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Work Order: 11012129
Celero/Rock Queen #7 TB

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Chavez County, NM

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

Method Blank (1) QC Batch: 77266

QC Batch: 77266 Date Analyzed: 2011-01-30 Analyzed By: PG
Prep Batch: 66273 QC Preparation: 2011-01-30 Prepared By: PG

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Chloride | | <0.0142 | mg/L | 2.5 |

Method Blank (1) QC Batch: 77266

QC Batch: 77266 Date Analyzed: 2011-01-30 Analyzed By: PG
Prep Batch: 66273 QC Preparation: 2011-01-30 Prepared By: PG

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Sulfate | | <0.126 | mg/L | 2.5 |

Method Blank (1) QC Batch: 77367

QC Batch: 77367 Date Analyzed: 2011-02-01 Analyzed By: PG
Prep Batch: 66364 QC Preparation: 2011-02-01 Prepared By: PG

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Sulfate | | <0.126 | mg/L | 2.5 |

Duplicates (1) Duplicated Sample: 255905

QC Batch: 77161 Date Analyzed: 2011-01-26 Analyzed By: AR
Prep Batch: 66128 QC Preparation: 2011-01-24 Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---------------------|------------------|-------|----------|-----|--------------|
| Total Dissolved Solids | 81500 | 81800 | mg/L | 100 | 0 | 10 |

Report Date: February 3, 2011
115-6403130

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Celero/Rock Queen #7 TB

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Chavez County, NM

Duplicates (1) Duplicated Sample: 255921

QC Batch: 77255
Prep Batch: 66142

Date Analyzed: 2011-01-31
QC Preparation: 2011-01-24

Analyzed By: AR
Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids | 147000 | 134000 | mg/L | 100 | 9 | 10 |

Laboratory Control Spike (LCS-1)

QC Batch: 77124
Prep Batch: 66157

Date Analyzed: 2011-01-24
QC Preparation: 2011-01-24

Analyzed By: AG
Prepared By: AG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------|-------|------|--------------|---------------|------|------------|
| Benzene | 0.0885 | mg/L | 1 | 0.100 | <0.000600 | 88 | 82.9 - 118 |
| Toluene | 0.0989 | mg/L | 1 | 0.100 | <0.000600 | 99 | 82.7 - 117 |
| Ethylbenzene | 0.102 | mg/L | 1 | 0.100 | <0.000800 | 102 | 78.8 - 116 |
| Xylene | 0.308 | mg/L | 1 | 0.300 | <0.000767 | 103 | 79.3 - 116 |

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 | 0.0906 | mg/L | 1 | 0.100 | <0.000600 | 91 | 82.9 - 118 | 2 | 20 |
| Toluene | 0.102 | mg/L | 1 | 0.100 | <0.000600 | 102 | 82.7 - 117 | 3 | 20 |
| Ethylbenzene | 0.106 | mg/L | 1 | 0.100 | <0.000800 | 106 | 78.8 - 116 | 4 | 20 |
| Xylene | 0.320 | mg/L | 1 | 0.300 | <0.000767 | 107 | 79.3 - 116 | 4 | 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) | 0.110 | 0.111 | mg/L | 1 | 0.100 | 110 | 111 | 67.3 - 113 |
| 4-Bromofluorobenzene (4-BFB) | 0.110 | 0.113 | mg/L | 1 | 0.100 | 110 | 113 | 68.2 - 134 |

Laboratory Control Spike (LCS-1)

QC Batch: 77161
Prep Batch: 66128

Date Analyzed: 2011-01-26
QC Preparation: 2011-01-24

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|------------|-------|------|--------------|---------------|------|------------|
| Total Dissolved Solids | 993 | mg/L | 1 | 1000 | <9.75 | 99 | 90 - 110 |

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

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| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids | 999 | mg/L | 1 | 1000 | <9.75 | 100 | 90 - 110 | 1 | 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: 77255
Prep Batch: 66142

Date Analyzed: 2011-01-31
QC Preparation: 2011-01-24

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids | 1020 | mg/L | 1 | 1000 | <9.75 | 102 | 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 | 1020 | mg/L | 1 | 1000 | <9.75 | 102 | 90 - 110 | 0 | 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: 77266
Prep Batch: 66273

Date Analyzed: 2011-01-30
QC Preparation: 2011-01-30

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 | <0.0142 | 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 | 24.0 | mg/L | 1 | 25.0 | <0.0142 | 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: 77266
Prep Batch: 66273

Date Analyzed: 2011-01-30
QC Preparation: 2011-01-30

Analyzed By: PG
Prepared By: PG

continued ...

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control spikes continued ...

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
| Sulfate | 24.6 | mg/L | 1 | 25.0 | <0.126 | 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 |
|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | 24.6 | mg/L | 1 | 25.0 | <0.126 | 98 | 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: 77367
Prep Batch: 66364

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

Analyzed By: PG
Prepared By: PG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | 24.4 | mg/L | 1 | 25.0 | <0.126 | 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 |
|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | 24.0 | mg/L | 1 | 25.0 | <0.126 | 96 | 90 - 110 | 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: 255921

QC Batch: 77124
Prep Batch: 66157

Date Analyzed: 2011-01-24
QC Preparation: 2011-01-24

Analyzed By: AG
Prepared By: AG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---------------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | ¹ 0.0669 | mg/L | 1 | 0.100 | 0.0121 | 55 | 77.9 - 114 |
| Toluene | ² 0.0633 | mg/L | 1 | 0.100 | 0.0066 | 57 | 78.3 - 111 |
| Ethylbenzene | ³ 0.0573 | mg/L | 1 | 0.100 | <0.000800 | 57 | 75.3 - 110 |
| Xylene | ⁴ 0.145 | mg/L | 1 | 0.300 | <0.000767 | 48 | 75.7 - 109 |

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

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

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

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

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

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| Param | | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | ⁵ | 0.0811 | mg/L | 1 | 0.100 | 0.0121 | 69 | 77.9 - 114 | 19 | 20 |
| Toluene | ⁶ | 0.0774 | mg/L | 1 | 0.100 | 0.0066 | 71 | 78.3 - 111 | 20 | 20 |
| Ethylbenzene | ⁷ | 0.0693 | mg/L | 1 | 0.100 | <0.000800 | 69 | 75.3 - 110 | 19 | 20 |
| Xylene | ⁸ | 0.180 | mg/L | 1 | 0.300 | <0.000767 | 60 | 75.7 - 109 | 22 | 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) | ⁹ | 0.0705 | 0.0437 | mg/L | 1 | 0.1 | 70 | 44 | 68.3 - 107 |
| 4-Bromofluorobenzene (4-BFB) | ¹⁰ | 0.0736 | 0.0449 | mg/L | 1 | 0.1 | 74 | 45 | 60.1 - 135 |

Matrix Spike (MS-1) Spiked Sample: 256128

QC Batch: 77266
Prep Batch: 66273

Date Analyzed: 2011-01-30
QC Preparation: 2011-01-30

Analyzed By: PG
Prepared By: PG

| Param | | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|--|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 121 | mg/L | 5 | 125 | 2.2 | 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 | | 120 | mg/L | 5 | 125 | 2.2 | 94 | 90 - 110 | 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: 256128

QC Batch: 77266
Prep Batch: 66273

Date Analyzed: 2011-01-30
QC Preparation: 2011-01-30

Analyzed By: PG
Prepared By: PG

| Param | | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|--|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | | 123 | mg/L | 5 | 125 | <0.630 | 98 | 90 - 110 |

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

⁵Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁶Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁷Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁸Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁹Surrogate out due to peak interference.

¹⁰Surrogate out due to peak interference.

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| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | 122 | mg/L | 5 | 125 | <0.630 | 98 | 90 - 110 | 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: 256245

QC Batch: 77367
Prep Batch: 66364

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

Analyzed By: PG
Prepared By: PG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | 13000 | mg/L | 500 | 12500 | <63.0 | 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 | 13000 | mg/L | 500 | 12500 | <63.0 | 104 | 90 - 110 | 0 | 20 |

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

Standard (CCV-1)

QC Batch: 77124

Date Analyzed: 2011-01-24

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 | 0.0910 | 91 | 80 - 120 | 2011-01-24 |
| Toluene | | mg/L | 0.100 | 0.102 | 102 | 80 - 120 | 2011-01-24 |
| Ethylbenzene | | mg/L | 0.100 | 0.108 | 108 | 80 - 120 | 2011-01-24 |
| Xylene | | mg/L | 0.300 | 0.325 | 108 | 80 - 120 | 2011-01-24 |

Standard (CCV-2)

QC Batch: 77124

Date Analyzed: 2011-01-24

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 | 0.0858 | 86 | 80 - 120 | 2011-01-24 |
| Toluene | | mg/L | 0.100 | 0.0989 | 99 | 80 - 120 | 2011-01-24 |
| Ethylbenzene | | mg/L | 0.100 | 0.103 | 103 | 80 - 120 | 2011-01-24 |
| Xylene | | mg/L | 0.300 | 0.308 | 103 | 80 - 120 | 2011-01-24 |

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Standard (CCV-3)

QC Batch: 77124

Date Analyzed: 2011-01-24

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 | 0.0820 | 82 | 80 - 120 | 2011-01-24 |
| Toluene | | mg/L | 0.100 | 0.0952 | 95 | 80 - 120 | 2011-01-24 |
| Ethylbenzene | | mg/L | 0.100 | 0.0976 | 98 | 80 - 120 | 2011-01-24 |
| Xylene | | mg/L | 0.300 | 0.294 | 98 | 80 - 120 | 2011-01-24 |

Standard (CCV-1)

QC Batch: 77266

Date Analyzed: 2011-01-30

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 | 24.1 | 96 | 90 - 110 | 2011-01-30 |

Standard (CCV-1)

QC Batch: 77266

Date Analyzed: 2011-01-30

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 | 2011-01-30 |

Standard (CCV-2)

QC Batch: 77266

Date Analyzed: 2011-01-30

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 | 2011-01-30 |

Standard (CCV-2)

QC Batch: 77266

Date Analyzed: 2011-01-30

Analyzed By: PG

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| 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 | 2011-01-30 |

Standard (CCV-1)

QC Batch: 77367

Date Analyzed: 2011-02-01

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 | 23.9 | 96 | 90 - 110 | 2011-02-01 |

Standard (CCV-2)

QC Batch: 77367

Date Analyzed: 2011-02-01

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 | 24.1 | 96 | 90 - 110 | 2011-02-01 |



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: April 27, 2011

Work Order: 11041526

Project Location: Chavez Co., NM
Project Name: Celero/Rock Queen Tract #7
Project Number: 115-6403130A

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 |
|--------|-------------|--------|------------|------------|---------------|
| 263892 | MW-1 | water | 2011-04-14 | 10:05 | 2011-04-15 |
| 263893 | MW-2 | water | 2011-04-14 | 10:15 | 2011-04-15 |
| 263894 | MW-3 | water | 2011-04-14 | 10:00 | 2011-04-15 |
| 263895 | MW-4 | water | 2011-04-14 | 10:25 | 2011-04-15 |

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 20 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

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Case Narrative

Samples for project Celero/Rock Queen Tract #7 were received by TraceAnalysis, Inc. on 2011-04-15 and assigned to work order 11041526. Samples for work order 11041526 were received intact without headspace and at a temperature of 0.6 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 | 68257 | 2011-04-18 at 08:51 | 80419 | 2011-04-18 at 08:51 |
| Chloride (IC) | E 300.0 | 68430 | 2011-04-20 at 12:00 | 80628 | 2011-04-22 at 15:03 |
| Chloride (IC) | E 300.0 | 68436 | 2011-04-25 at 08:21 | 80663 | 2011-04-26 at 15:30 |
| SO4 (IC) | E 300.0 | 68430 | 2011-04-20 at 12:00 | 80628 | 2011-04-22 at 15:03 |
| SO4 (IC) | E 300.0 | 68436 | 2011-04-25 at 08:21 | 80663 | 2011-04-26 at 15:30 |
| TDS | SM 2540C | 68387 | 2011-04-20 at 11:51 | 80715 | 2011-04-26 at 13:47 |

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 11041526 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.

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Analytical Report

Sample: 263892 - MW-1

Laboratory: Midland

Analysis: BTEX

QC Batch: 80419

Prep Batch: 68257

Analytical Method: S 8021B

Date Analyzed: 2011-04-18

Sample Preparation: 2011-04-18

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 1 | 0.0981 | mg/L | 1 | 0.100 | 98 | 67.8 - 129 |
| 4-Bromofluorobenzene (4-BFB) | | 1 | 0.100 | mg/L | 1 | 0.100 | 100 | 51.1 - 128 |

Sample: 263892 - MW-1

Laboratory: Midland

Analysis: Chloride (IC)

QC Batch: 80628

Prep Batch: 68430

Analytical Method: E 300.0

Date Analyzed: 2011-04-22

Sample Preparation: 2011-04-20

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 20500 | mg/L | 1000 | 2.50 |

Sample: 263892 - MW-1

Laboratory: Midland

Analysis: SO4 (IC)

QC Batch: 80628

Prep Batch: 68430

Analytical Method: E 300.0

Date Analyzed: 2011-04-22

Sample Preparation: 2011-04-20

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Sulfate | | 1 | 1020 | mg/L | 100 | 2.50 |

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Sample: 263892 - MW-1

Laboratory: Midland

Analysis: TDS

QC Batch: 80715

Prep Batch: 68387

Analytical Method: SM 2540C

Date Analyzed: 2011-04-26

Sample Preparation: 2011-04-20

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|------------------------|------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 1 | 32000 | mg/L | 100 | 10.0 |

Sample: 263893 - MW-2

Laboratory: Midland

Analysis: BTEX

QC Batch: 80419

Prep Batch: 68257

Analytical Method: S 8021B

Date Analyzed: 2011-04-18

Sample Preparation: 2011-04-18

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene | | 1 | 0.00680 | mg/L | 1 | 0.00100 |
| Toluene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 1 | 0.0903 | mg/L | 1 | 0.100 | 90 | 67.8 - 129 |
| 4-Bromofluorobenzene (4-BFB) | | 1 | 0.0980 | mg/L | 1 | 0.100 | 98 | 51.1 - 128 |

Sample: 263893 - MW-2

Laboratory: Midland

Analysis: Chloride (IC)

QC Batch: 80628

Prep Batch: 68430

Analytical Method: E 300.0

Date Analyzed: 2011-04-22

Sample Preparation: 2011-04-20

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 19100 | mg/L | 1000 | 2.50 |

Report Date: April 27, 2011
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Sample: 263893 - MW-2

| | | | | | |
|-------------|----------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | SO4 (IC) | Date Analyzed: | 2011-04-22 | Analyzed By: | AR |
| QC Batch: | 80628 | Sample Preparation: | 2011-04-20 | Prepared By: | AR |
| Prep Batch: | 68430 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Sulfate | | 1 | 1280 | mg/L | 100 | 2.50 |

Sample: 263893 - MW-2

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | SM 2540C | Prep Method: | N/A |
| Analysis: | TDS | Date Analyzed: | 2011-04-26 | Analyzed By: | AR |
| QC Batch: | 80715 | Sample Preparation: | 2011-04-20 | Prepared By: | AR |
| Prep Batch: | 68387 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|------------------------|------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 1 | 33000 | mg/L | 100 | 10.0 |

Sample: 263894 - MW-3

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Midland | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2011-04-18 | Analyzed By: | ME |
| QC Batch: | 80419 | Sample Preparation: | 2011-04-18 | Prepared By: | ME |
| Prep Batch: | 68257 | | | | |

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 1 | 0.0914 | mg/L | 1 | 0.100 | 91 | 67.8 - 129 |
| 4-Bromofluorobenzene (4-BFB) | | 1 | 0.0998 | mg/L | 1 | 0.100 | 100 | 51.1 - 128 |

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Sample: 263894 - MW-3

| | | | | | |
|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | Chloride (IC) | Date Analyzed: | 2011-04-22 | Analyzed By: | AR |
| QC Batch: | 80628 | Sample Preparation: | 2011-04-20 | Prepared By: | AR |
| Prep Batch: | 68430 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 25100 | mg/L | 500 | 2.50 |

Sample: 263894 - MW-3

| | | | | | |
|-------------|----------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | SO4 (IC) | Date Analyzed: | 2011-04-22 | Analyzed By: | AR |
| QC Batch: | 80628 | Sample Preparation: | 2011-04-20 | Prepared By: | AR |
| Prep Batch: | 68430 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Sulfate | | 1 | 1170 | mg/L | 50 | 2.50 |

Sample: 263894 - MW-3

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | SM 2540C | Prep Method: | N/A |
| Analysis: | TDS | Date Analyzed: | 2011-04-26 | Analyzed By: | AR |
| QC Batch: | 80715 | Sample Preparation: | 2011-04-20 | Prepared By: | AR |
| Prep Batch: | 68387 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|------------------------|------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 1 | 41000 | mg/L | 100 | 10.0 |

Sample: 263895 - MW-4

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Midland | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2011-04-18 | Analyzed By: | ME |
| QC Batch: | 80419 | Sample Preparation: | 2011-04-18 | Prepared By: | ME |
| Prep Batch: | 68257 | | | | |

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sample 263895 continued ...

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 1 | 0.0952 | mg/L | 1 | 0.100 | 95 | 67.8 - 129 |
| 4-Bromofluorobenzene (4-BFB) | | 1 | 0.0967 | mg/L | 1 | 0.100 | 97 | 51.1 - 128 |

Sample: 263895 - MW-4

| | | |
|-------------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: E 300.0 | Prep Method: N/A |
| Analysis: Chloride (IC) | Date Analyzed: 2011-04-26 | Analyzed By: AR |
| QC Batch: 80663 | Sample Preparation: 2011-04-25 | Prepared By: AR |
| Prep Batch: 68436 | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 510 | mg/L | 50 | 2.50 |

Sample: 263895 - MW-4

| | | |
|---------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: E 300.0 | Prep Method: N/A |
| Analysis: SO4 (IC) | Date Analyzed: 2011-04-26 | Analyzed By: AR |
| QC Batch: 80663 | Sample Preparation: 2011-04-25 | Prepared By: AR |
| Prep Batch: 68436 | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Sulfate | | 1 | 80.5 | mg/L | 5 | 2.50 |

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Sample: 263895 - MW-4

Laboratory: Midland

Analysis: TDS

QC Batch: 80715

Prep Batch: 68387

Analytical Method: SM 2540C

Date Analyzed: 2011-04-26

Sample Preparation: 2011-04-20

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|------------------------|------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 1 | 3330 | mg/L | 5 | 10.0 |

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Method Blanks

Method Blank (1) QC Batch: 80419

QC Batch: 80419
Prep Batch: 68257

Date Analyzed: 2011-04-18
QC Preparation: 2011-04-18

Analyzed By: ME
Prepared By: ME

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|---------------|-------|-------|
| Benzene | | 1 | <0.000400 | mg/L | 0.001 |
| Toluene | | 1 | <0.000300 | mg/L | 0.001 |
| Ethylbenzene | | 1 | <0.000300 | mg/L | 0.001 |
| Xylene | | 1 | <0.000333 | mg/L | 0.001 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 1 | 0.0911 | mg/L | 1 | 0.100 | 91 | 70.2 - 118 |
| 4-Bromofluorobenzene (4-BFB) | | 1 | 0.104 | mg/L | 1 | 0.100 | 104 | 47.3 - 116 |

Method Blank (1) QC Batch: 80628

QC Batch: 80628
Prep Batch: 68430

Date Analyzed: 2011-04-22
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Chloride | | 1 | 0.593 | mg/L | 2.5 |

Method Blank (1) QC Batch: 80628

QC Batch: 80628
Prep Batch: 68430

Date Analyzed: 2011-04-22
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Sulfate | | 1 | <0.177 | mg/L | 2.5 |

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Method Blank (1) QC Batch: 80663

QC Batch: 80663
Prep Batch: 68436

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Chloride | | 1 | 0.878 | mg/L | 2.5 |

Method Blank (1) QC Batch: 80663

QC Batch: 80663
Prep Batch: 68436

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Sulfate | | 1 | <0.177 | mg/L | 2.5 |

Method Blank (1) QC Batch: 80715

QC Batch: 80715
Prep Batch: 68387

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|------------------------|------|------|---------------|-------|----|
| Total Dissolved Solids | | 1 | <9.75 | mg/L | 10 |

Duplicates (1) Duplicated Sample: 263895

QC Batch: 80715
Prep Batch: 68387

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Param | | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---------------------|------------------|-------|----------|-----|--------------|
| Total Dissolved Solids | 1 | 3480 | 3330 | mg/L | 5 | 4 | 10 |

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 80419
Prep Batch: 68257

Date Analyzed: 2011-04-18
QC Preparation: 2011-04-18

Analyzed By: ME
Prepared By: ME

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1 | 0.0882 | mg/L | 1 | 0.100 | <0.000400 | 88 | 76.8 - 110 |
| Toluene | | 1 | 0.0944 | mg/L | 1 | 0.100 | <0.000300 | 94 | 81 - 108 |
| Ethylbenzene | | 1 | 0.0965 | mg/L | 1 | 0.100 | <0.000300 | 96 | 78.8 - 118 |
| Xylene | | 1 | 0.291 | mg/L | 1 | 0.300 | <0.000333 | 97 | 80.3 - 119 |

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

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1 | 0.0948 | mg/L | 1 | 0.100 | <0.000400 | 95 | 76.8 - 110 | 7 | 20 |
| Toluene | | 1 | 0.102 | mg/L | 1 | 0.100 | <0.000300 | 102 | 81 - 108 | 8 | 20 |
| Ethylbenzene | | 1 | 0.104 | mg/L | 1 | 0.100 | <0.000300 | 104 | 78.8 - 118 | 8 | 20 |
| Xylene | | 1 | 0.314 | mg/L | 1 | 0.300 | <0.000333 | 105 | 80.3 - 119 | 8 | 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) | | 1 | 0.0994 | 0.0964 | mg/L | 1 | 0.100 | 99 | 96 | 66.6 - 114 |
| 4-Bromofluorobenzene (4-BFB) | | 1 | 0.119 | 0.116 | mg/L | 1 | 0.100 | 119 | 116 | 68.2 - 124 |

Laboratory Control Spike (LCS-1)

QC Batch: 80628
Prep Batch: 68430

Date Analyzed: 2011-04-22
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1 | 24.6 | mg/L | 1 | 25.0 | <0.265 | 98 | 90 - 110 |

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

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control spikes continued ...

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
| Chloride | | 1 | 24.7 | mg/L | 1 | 25.0 | <0.265 | 99 | 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: 80628
Prep Batch: 68430

Date Analyzed: 2011-04-22
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | | 1 | 24.2 | mg/L | 1 | 25.0 | <0.177 | 97 | 90 - 110 |

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

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | | 1 | 24.2 | mg/L | 1 | 25.0 | <0.177 | 97 | 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: 80663
Prep Batch: 68436

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

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

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

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1 | 25.6 | mg/L | 1 | 25.0 | <0.265 | 102 | 90 - 110 | 1 | 20 |

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

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Laboratory Control Spike (LCS-1)

QC Batch: 80663
Prep Batch: 68436

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | | 1 | 23.5 | mg/L | 1 | 25.0 | <0.177 | 94 | 90 - 110 |

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

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | | 1 | 22.7 | mg/L | 1 | 25.0 | <0.177 | 91 | 90 - 110 | 4 | 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: 80715
Prep Batch: 68387

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids | | 1 | 966 | 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 | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids | | 1 | 992 | mg/L | 1 | 1000 | <9.75 | 99 | 90 - 110 | 3 | 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: 263891

QC Batch: 80628
Prep Batch: 68430

Date Analyzed: 2011-04-22
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1 | 3430 | mg/L | 100 | 2750 | 997 | 88 | 90 - 110 |

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

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| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1 | 3380 | mg/L | 100 | 2750 | 997 | 87 | 90 - 110 | 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: 263891

QC Batch: 80628
Prep Batch: 68430

Date Analyzed: 2011-04-22
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | | 1 | 3830 | mg/L | 100 | 2750 | 1570 | 82 | 90 - 110 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | | 1 | 3800 | mg/L | 100 | 2750 | 1570 | 81 | 90 - 110 | 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: 263897

QC Batch: 80663
Prep Batch: 68436

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1 | 1400 | mg/L | 50 | 1380 | 91.7 | 95 | 90 - 110 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1 | 1410 | mg/L | 50 | 1380 | 91.7 | 96 | 90 - 110 | 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: 263897

QC Batch: 80663
Prep Batch: 68436

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

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| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | | 1 | 1200 | mg/L | 50 | 1380 | 32 | 85 | 90 - 110 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | | 1 | 1240 | mg/L | 50 | 1380 | 32 | 88 | 90 - 110 | 3 | 20 |

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

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Calibration Standards

Standard (CCV-2)

QC Batch: 80419

Date Analyzed: 2011-04-18

Analyzed By: ME

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.0964 | 96 | 80 - 120 | 2011-04-18 |
| Toluene | | 1 | mg/L | 0.100 | 0.100 | 100 | 80 - 120 | 2011-04-18 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0997 | 100 | 80 - 120 | 2011-04-18 |
| Xylene | | 1 | mg/L | 0.300 | 0.298 | 99 | 80 - 120 | 2011-04-18 |

Standard (CCV-3)

QC Batch: 80419

Date Analyzed: 2011-04-18

Analyzed By: ME

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.0957 | 96 | 80 - 120 | 2011-04-18 |
| Toluene | | 1 | mg/L | 0.100 | 0.0994 | 99 | 80 - 120 | 2011-04-18 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0987 | 99 | 80 - 120 | 2011-04-18 |
| Xylene | | 1 | mg/L | 0.300 | 0.294 | 98 | 80 - 120 | 2011-04-18 |

Standard (ICV-1)

QC Batch: 80628

Date Analyzed: 2011-04-22

Analyzed By: AR

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/L | 25.0 | 24.1 | 96 | 90 - 110 | 2011-04-22 |

Standard (ICV-1)

QC Batch: 80628

Date Analyzed: 2011-04-22

Analyzed By: AR

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Work Order: 11041526
Celero/Rock Queen Tract #7

Page Number: 18 of 20
Chavez Co., NM

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 24.1 | 96 | 90 - 110 | 2011-04-22 |

Standard (CCV-1)

QC Batch: 80628

Date Analyzed: 2011-04-22

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/L | 25.0 | 24.1 | 96 | 90 - 110 | 2011-04-22 |

Standard (CCV-1)

QC Batch: 80628

Date Analyzed: 2011-04-22

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 24.8 | 99 | 90 - 110 | 2011-04-22 |

Standard (ICV-1)

QC Batch: 80663

Date Analyzed: 2011-04-26

Analyzed By: AR

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/L | 25.0 | 24.3 | 97 | 90 - 110 | 2011-04-26 |

Standard (ICV-1)

QC Batch: 80663

Date Analyzed: 2011-04-26

Analyzed By: AR

Report Date: April 27, 2011
115-6403130A

Work Order: 11041526
Celero/Rock Queen Tract #7

Page Number: 19 of 20
Chavez Co., NM

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 25.0 | 100 | 90 - 110 | 2011-04-26 |

Standard (CCV-1)

QC Batch: 80663

Date Analyzed: 2011-04-26

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/L | 25.0 | 22.8 | 91 | 90 - 110 | 2011-04-26 |

Standard (CCV-1)

QC Batch: 80663

Date Analyzed: 2011-04-26

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 22.8 | 91 | 90 - 110 | 2011-04-26 |

Appendix

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704392-10-TX | Midland |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MPL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 1

OF:

ANALYSIS REQUEST

(Circle or Specify Method No.)



TETRA TECH

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

[illegible]

| | | | | | |
|--|--------------------------------|---|-----------------------------|---|--------------------------------|
| RELINQUISHED BY: (Signature) <i>James Kennedy</i> | Date: 4/15-11 Time: 4:13 PM | RECEIVED BY: (Signature) <i>Paul</i> | Date: 4/13/11 Time: 1:30 | SAMPLED BY: (Print & Initial) <i>James Kennedy JAK</i> | Date: 4/14-11 Time: 4:13 PM |
| RELINQUISHED BY: (Signature) | Date: _____ Time: _____ | RECEIVED BY: (Signature) | Date: _____ Time: _____ | SAMPLE SHIPPED BY: (Circle) FEDEX | AIRBILL #: _____ |
| RELINQUISHED BY: (Signature) | Date: _____ Time: _____ | RECEIVED BY: (Signature) | Date: _____ Time: _____ | <input checked="" type="checkbox"/> HAND DELIVERED | OTHER: _____ |
| RECEIVING LABORATORY: <i>Trace</i> | ADDRESS: _____ | RECEIVED BY: (Signature) | Date: _____ Time: _____ | TETRA TECH CONTACT PERSON: <i>Jeff Kindley</i> | |
| CITY: <i>Midland</i> | STATE: _____ | DATE: _____ | TIME: _____ | Results by: _____ | |
| PHONE: _____ | ZIP: _____ | RUSH Charges Authorized: _____ | | | |
| | | | | Yes _____ No _____ | |

REMARKS:

REMARKS: ~~all~~ test-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.