

1RP-1664

**Assessment and closure
Report**

**DATE:
Oct. 2009**



TETRA TECH

October 12, 2009

Mr. Glenn von Gonten
Senior Hydrologist/Acting Environmental Bureau Chief
Environmental Bureau
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Assessment and Closure Report for the Pit Located at the Rock Queen Unit Tract #33 Tank Battery, Unit Letter F, Section 23, Township 13 South, Range 31 East, Chaves County, New Mexico, Operated by Celero Energy II, LP (NMOCD 1RP#1664)

Dear Mr. von Gonten:

Tetra Tech was contacted by Celero Energy (Celero) to assist in the closure of a pit at the Rock Queen Unit Tract #33 Tank Battery, located in Unit Letter F, Section 23, Township 13 South, Range 31 East, Chaves County, New Mexico (Site). The pit coordinates are N 33.17611° W 103.79611°. Both the State of New Mexico C-141 and C-144 (Initial and Final) are included in Appendix C. The Site is shown on Figures 1 and 2.

Background

On October 8, 2007, Highlander submitted an Investigation and Characterization work plan (ICP) for an open pit at this site. The ICP was approved by the New Mexico Oil Conservation Division (NMOCD). On November 5, 2007, Highlander submitted an additional report entitled Workplan for Capping and Site Closure for the Pit at this site.

The Tract 33 Tank Battery pit was dewatered and the residual sludge, tank bottom materials, and liner removed in September 2007. Removed fluids were placed into an existing SWD system or taken to disposal, while the sludge, tank bottom materials, and liner were disposed of at Gandy-Marley, Inc. landfill site of Lovington, New Mexico. Upon completion of the removal of the fluids, sludge and liner, the underlying soils were visually inspected for obvious signs of impact. Approximately 460 cubic yards of soil were excavated and hauled to

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Gandy-Marley, Inc. for disposal. The pit was excavated to a point where the subsoil would support a soil boring rig.

Background

Neither the New Mexico State Engineer's Office database nor the USGS database show any wells in Section 23, Township 13 South, Range 31 East. Monitor wells installed near this site had depths of groundwater of greater than 100 feet.

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Assessment and Results

On October 23, 2007, Highlander supervised the installation of soil borings at the pit. Prior to the installation of the borings, a visual inspection was performed around the perimeter of the pit. The area of the pit excavation measured approximately 93 feet by 105 feet. One soil boring (SB-1) was installed in the center of the pit. The remaining boreholes (SB-2 through SB-7) were installed outside the edges of the pit. The boring locations and the approximate edge of the pit are shown in Figure 3.

The borings were installed using an air-rotary type drilling rig. Soil samples from soil boring SB-1 were collected at 5 foot intervals to 20 feet and then 10 foot intervals thereafter during drilling operations. The samples were field screened for hydrocarbons with a PID, and field screened for chlorides. Soil samples from the remaining soil borings were collected at 10 foot intervals to depths up to 100 feet below ground surface (bgs).

The soil samples were field screened for chlorides to determine if impacts showed a distinctive decline with depth. Select soil samples were analyzed for Total Petroleum Hydrocarbons (TPH) by method modified 8015 DRO/GRO, benzene, toluene, ethylbenzene, and xylene (BTEX) by method 8021B and chloride by method 4500 Cl-B. All samples were collected and preserved in



laboratory prepared sample containers with standard QA/QC procedures. All samples were shipped under proper chain-of-custody control and analyzed within the standard holding times. The results of the sampling are shown in Table 1. The laboratory reports and chain-of-custody are included in Appendix A.

All down hole equipment was washed between boreholes or sampling events using a potable water and laboratory grade detergent. All down hole equipment (i.e., drill rods, drill bits, etc.) were thoroughly decontaminated between each use with a high-pressure hot water wash and rinse. Soil cuttings from drilling were stockpiled adjacent to the borehole. Following the completion of the drilling activities, all boreholes were grouted to the surface.

Referring to Table 1, the samples selected for TPH and BTEX analysis were all below the reporting limits. Chloride impact was found throughout SB-1. Horizontal chloride impact was defined inside the perimeter boreholes.

Soil Capping

During the week of December 22, 2007, Gandy-Marley Corporation of Lovington, New Mexico was onsite to install a 1 foot thick clay liner for the pit. The pit area was further extended out approximately 50 feet south and west of the original dimensions based upon the results of the borehole sample. See Figure 3 for pit liner dimensions. The soils were excavated to a depth of 4 feet bgs. The soils excavated were placed back into the center of the original excavation in order to bring the excavation up to a depth of 4 feet bgs. Upon completion of the clay liner, overburden material stripped from the expansion of the pit was utilized as backfill for the site and brought up to grade. A copy of the sieve analysis/permeability data for the clay is included in Appendix B.

Proposed Monitor Well

One monitor well will be installed at the site to evaluate groundwater quality in the vicinity of the closed pit area. During the installation of the monitor well, the entire screened interval will be placed entirely below the water table. If the sampling data indicates the necessity for additional monitor wells, they will be installed accordingly, in order to complete delineation.

Conclusions

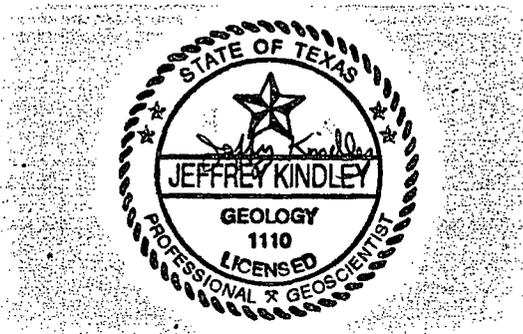
Between October and December 2007, the pit area was excavated to dimensions of 110 feet by 135 feet. Approximately 460 cubic yards of soil were excavated and transported offsite for disposal at Gandy-Marley of Lovington, New Mexico. A clay liner was placed at 4 feet bgs in the excavation in order to impeded the remaining chlorides at the site from migrating to the underlying



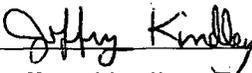
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groundwater. Upon completion of the clay liner, the site was backfilled with overburden material and brought up to surface grade.

Based upon the results of the pit closure work performed at the site, Celero Energy requests consideration of this pit for closure. If you require any additional information or have any questions or comments concerning the assessment/closure report, please call at (432) 682-4559.



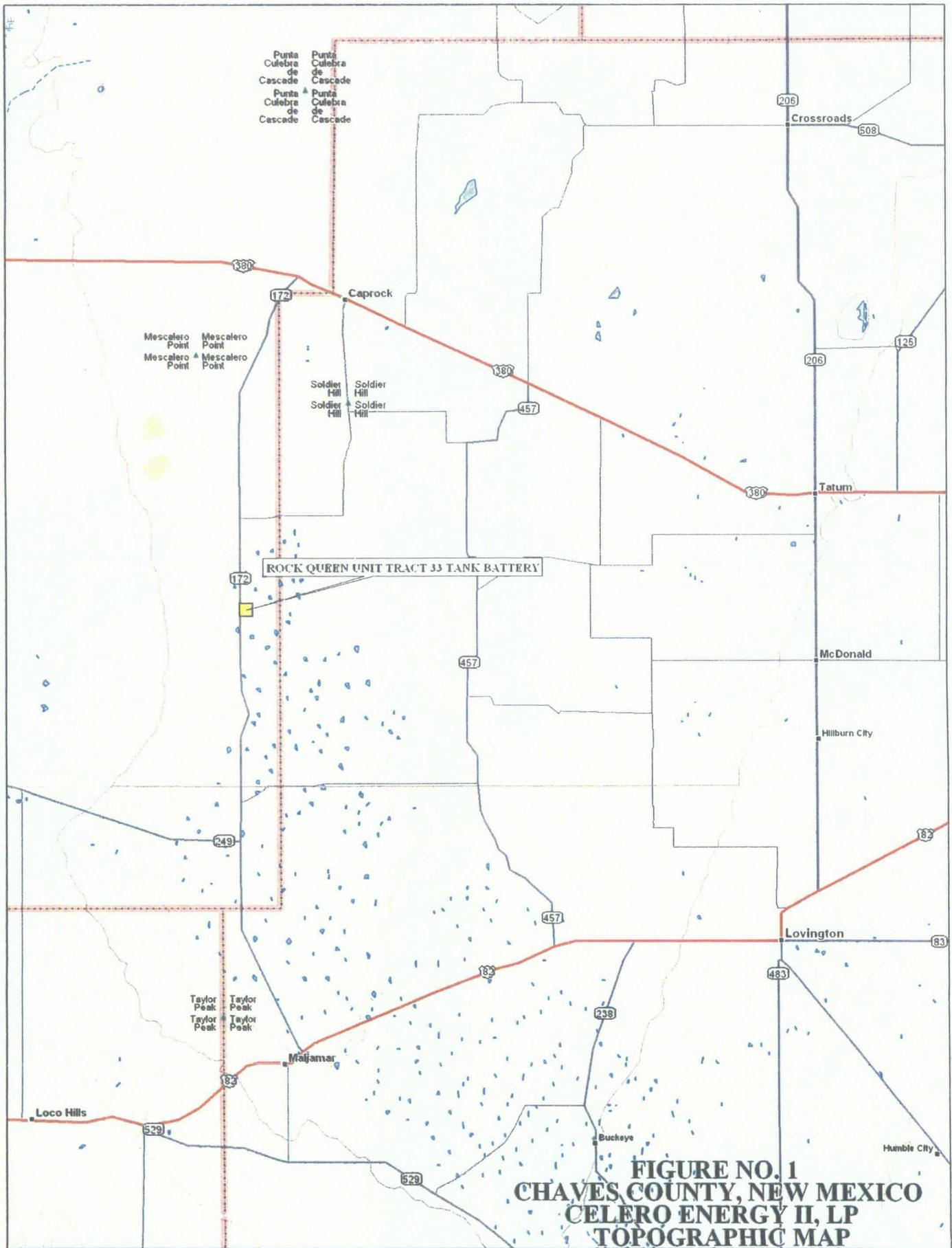
Respectfully submitted,
Tetra Tech



Jeffrey Kindley, P.G.
Senior Environmental Geologist

cc: Bruce Woodard – Celero Energy II LP
Larry Johnson – NMOCD – Hobbs, NM

FIGURES



**FIGURE NO. 1
CHAVES COUNTY, NEW MEXICO
CELERO ENERGY II, LP
TOPOGRAPHIC MAP**

Scale 1 : 400,000
1" = 6.31 mi



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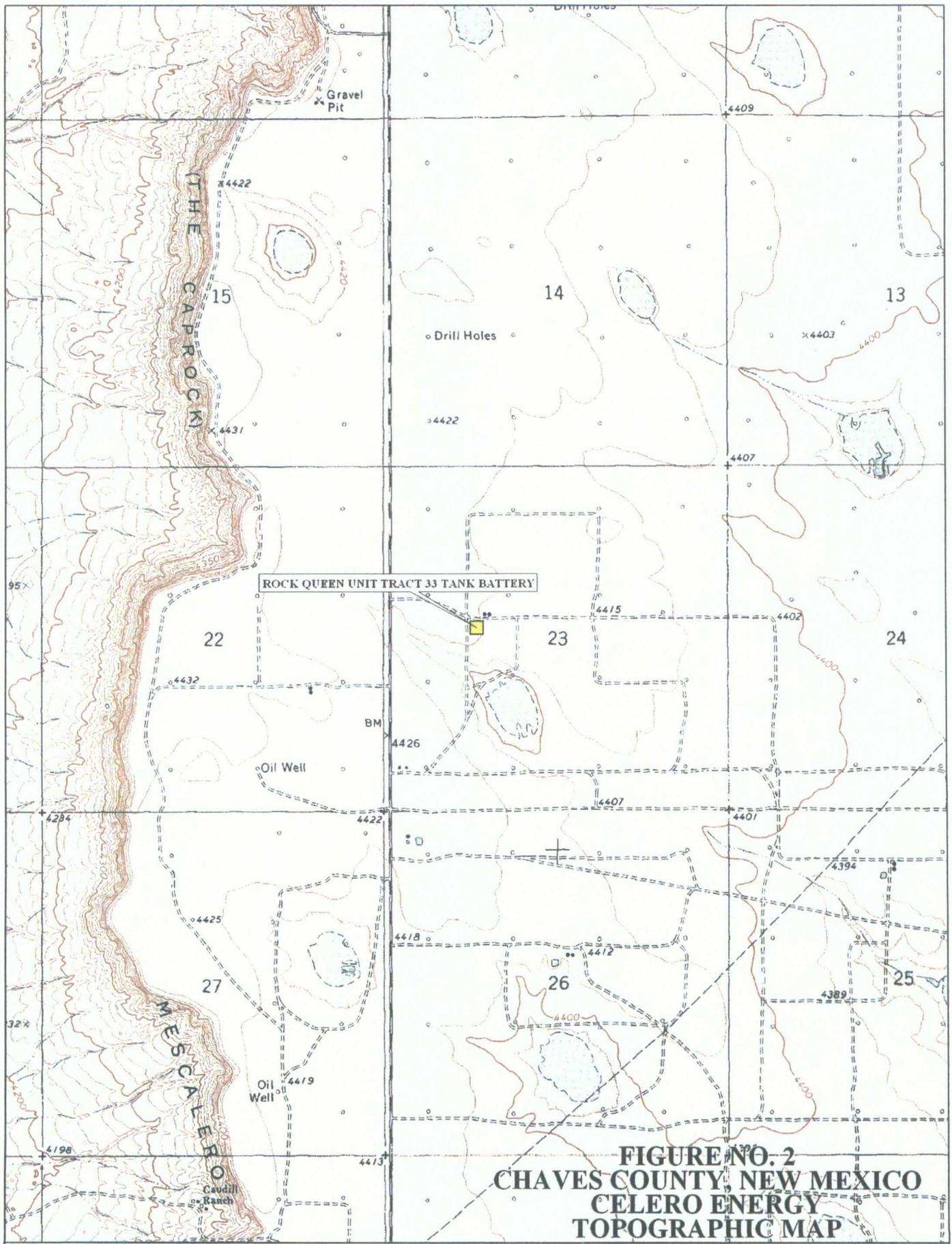
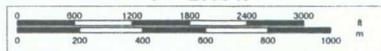


FIGURE NO. 2
CHAVES COUNTY, NEW MEXICO
CELERO ENERGY
TOPOGRAPHIC MAP

Scale 1 : 24,000
 1" = 2000 ft



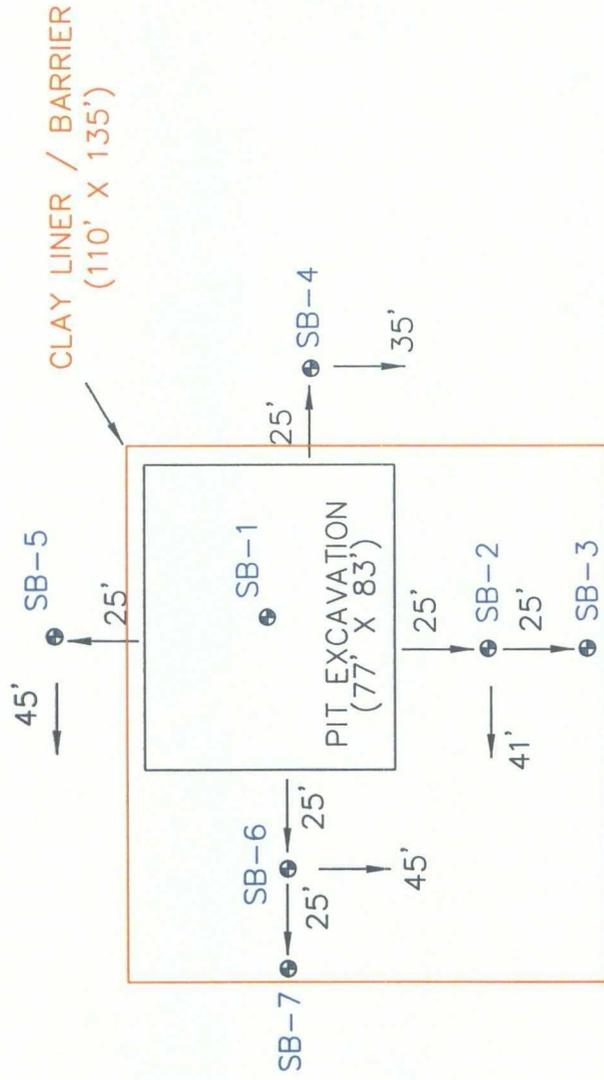


FIGURE NO. 3

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN UNIT TRACT #83
SOIL BORING / CLAY LINER LOCATIONS

TETRA TECH
MIDLAND, TEXAS

DATE:	10/30/07
DRAWN BY:	RC
FILE:	AC-08003133A
	R 0 UNIT 33

NOT TO SCALE

TABLES

Table 1
 Celero Energy
 Rock Queen Unit Tract #33
 Chaves County, New Mexico

Sample ID	Date Sampled	Excavation Depth (ft)	TPH (mg/kg)		Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
			DRO	GRO					
SB-6	10/23/2007	(8-10')	-	-	-	-	-	-	1510
	10/23/2007	(18-20')	-	-	-	-	-	-	7780
	10/23/2007	(28-30')	-	-	-	-	-	-	6680
	10/23/2007	(38-40')	-	-	-	-	-	-	4660
SB-7	10/23/2007	(48-50')	-	-	-	-	-	-	3340
	10/24/2007	(8-10')	-	-	-	-	-	-	2640
	10/24/2007	(18-20')	-	-	-	-	-	-	3100
	10/24/2007	(28-30')	-	-	-	-	-	-	529
	10/24/2007	(38-40')	-	-	-	-	-	-	<100
	10/24/2007	(48-50')	-	-	-	-	-	-	<100

(-) Not Analyzed

**APPENDIX A
LABORATORY ANALYTICAL**



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

Analytical and Quality Control Report

Ike Tavarez
 Highlander Environmental Services
 1910 N. Big Spring Street
 Midland, TX, 79705

Report Date: November 5, 2007

Work Order: 7102426



Project Name: Celero-Rock Queen Unit 33
 Project Number: 3133

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
140213	SB-1 (3-5')	soil	2007-10-23	00:00	2007-10-24
140214	SB-1 (8-10')	soil	2007-10-23	00:00	2007-10-24
140215	SB-1 (13-15')	soil	2007-10-23	00:00	2007-10-24
140216	SB-1 (18-20')	soil	2007-10-23	00:00	2007-10-24
140217	SB-1 (28-30')	soil	2007-10-23	00:00	2007-10-24
140218	SB-1 (38-40')	soil	2007-10-23	00:00	2007-10-24
140219	SB-1 (48-50')	soil	2007-10-23	00:00	2007-10-24
140220	SB-1 (58-60')	soil	2007-10-23	00:00	2007-10-24
140221	SB-1 (68-70')	soil	2007-10-23	00:00	2007-10-24
140222	SB-1 (78-80')	soil	2007-10-23	00:00	2007-10-24
140223	SB-1 (88-90')	soil	2007-10-23	00:00	2007-10-24
140224	SB-1 (98-100')	soil	2007-10-23	00:00	2007-10-24
140225	SB-2 (8-10')	soil	2007-10-23	00:00	2007-10-24
140226	SB-2 (18-20')	soil	2007-10-23	00:00	2007-10-24
140227	SB-2 (28-30')	soil	2007-10-23	00:00	2007-10-24
140228	SB-2 (38-40')	soil	2007-10-23	00:00	2007-10-24
140229	SB-2 (48-50')	soil	2007-10-23	00:00	2007-10-24
140230	SB-3 (8-10')	soil	2007-10-23	00:00	2007-10-24
140231	SB-3 (18-20')	soil	2007-10-23	00:00	2007-10-24
140232	SB-3 (28-30')	soil	2007-10-23	00:00	2007-10-24
140233	SB-3 (38-40')	soil	2007-10-23	00:00	2007-10-24
140234	SB-3 (48-50')	soil	2007-10-23	00:00	2007-10-24
140235	SB-4 (8-10')	soil	2007-10-23	00:00	2007-10-24
140236	SB-4 (18-20')	soil	2007-10-23	00:00	2007-10-24

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
140237	SB-4 (28-30')	soil	2007-10-23	00:00	2007-10-24
140238	SB-4 (38-40')	soil	2007-10-23	00:00	2007-10-24
140239	SB-4 (48-50')	soil	2007-10-23	00:00	2007-10-24
140240	SB-5 (8-10')	soil	2007-10-23	00:00	2007-10-24
140241	SB-5 (18-20')	soil	2007-10-23	00:00	2007-10-24
140242	SB-5 (28-30')	soil	2007-10-23	00:00	2007-10-24
140243	SB-5 (38-40')	soil	2007-10-23	00:00	2007-10-24
140244	SB-5 (48-50')	soil	2007-10-23	00:00	2007-10-24
140245	SB-6 (8-10')	soil	2007-10-23	00:00	2007-10-24
140246	SB-6 (18-20')	soil	2007-10-23	00:00	2007-10-24
140247	SB-6 (28-30')	soil	2007-10-23	00:00	2007-10-24
140248	SB-6 (38-40')	soil	2007-10-23	00:00	2007-10-24
140249	SB-6 (48-50')	soil	2007-10-23	00:00	2007-10-24

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

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



Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 140213 - SB-1 (3-5')

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 42473	Date Analyzed: 2007-10-26	Analyzed By: DC
Prep Batch: 36635	Sample Preparation: 2007-10-26	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.732	mg/Kg	1	1.00	73	39.6 - 116
4-Bromofluorobenzene (4-BFB)		0.626	mg/Kg	1	1.00	63	47.3 - 144.2

Sample: 140213 - SB-1 (3-5')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 42631	Date Analyzed: 2007-11-01	Analyzed By: AR
Prep Batch: 36787	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		5130	mg/Kg	50	2.00

Sample: 140213 - SB-1 (3-5')

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 42445	Date Analyzed: 2007-10-26	Analyzed By: LD
Prep Batch: 36624	Sample Preparation: 2007-10-26	Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		188	mg/Kg	1	150	125	17.3 - 169.6

Sample: 140213 - SB-1 (3-5')

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 42485	Date Analyzed: 2007-10-26	Analyzed By: DC
Prep Batch: 36635	Sample Preparation: 2007-10-26	Prepared By: DC

Sample: 140214 - SB-1 (8-10')

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 42485	Date Analyzed: 2007-10-26	Analyzed By: DC
Prep Batch: 36635	Sample Preparation: 2007-10-26	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.702	mg/Kg	1	1.00	70	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.699	mg/Kg	1	1.00	70	51.2 - 107.4

Sample: 140215 - SB-1 (13-15')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 42631	Date Analyzed: 2007-11-01	Analyzed By: AR
Prep Batch: 36787	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		9450	mg/Kg	50	2.00

Sample: 140216 - SB-1 (18-20')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 42631	Date Analyzed: 2007-11-01	Analyzed By: AR
Prep Batch: 36787	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8140	mg/Kg	50	2.00

Sample: 140217 - SB-1 (28-30')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 42632	Date Analyzed: 2007-11-01	Analyzed By: AR
Prep Batch: 36790	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8460	mg/Kg	50	2.00

Sample: 140218 - SB-1 (38-40')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42632 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36790 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4900	mg/Kg	50	2.00

Sample: 140219 - SB-1 (48-50')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42632 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36790 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8060	mg/Kg	50	2.00

Sample: 140220 - SB-1 (58-60')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42632 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36790 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		6450	mg/Kg	50	2.00

Sample: 140221 - SB-1 (68-70')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42632 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36790 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4500	mg/Kg	50	2.00

Sample: 140222 - SB-1 (78-80')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42632 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36790 Sample Preparation: Prepared By: AR

continued ...

sample 140222 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3800	mg/Kg	50	2.00

Sample: 140223 - SB-1 (88-90')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42632 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36790 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4150	mg/Kg	50	2.00

Sample: 140224 - SB-1 (98-100')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42632 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36790 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4720	mg/Kg	50	2.00

Sample: 140225 - SB-2 (8-10')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42632 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36790 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1630	mg/Kg	50	2.00

Sample: 140226 - SB-2 (18-20')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42632 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36790 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1320	mg/Kg	50	2.00

Sample: 140227 - SB-2 (28-30')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42672 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36819 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3600	mg/Kg	50	2.00

Sample: 140228 - SB-2 (38-40')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42672 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36819 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3890	mg/Kg	50	2.00

Sample: 140229 - SB-2 (48-50')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42672 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36819 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2510	mg/Kg	50	2.00

Sample: 140230 - SB-3 (8-10')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42672 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36819 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		347	mg/Kg	50	2.00

Sample: 140231 - SB-3 (18-20')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42672 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36819 Sample Preparation: Prepared By: AR

continued ...

sample 140231 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1010	mg/Kg	50	2.00

Sample: 140232 - SB-3 (28-30')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 42672	Date Analyzed: 2007-11-02	Analyzed By: AR
Prep Batch: 36819	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		972	mg/Kg	50	2.00

Sample: 140233 - SB-3 (38-40')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 42672	Date Analyzed: 2007-11-02	Analyzed By: AR
Prep Batch: 36819	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1050	mg/Kg	50	2.00

Sample: 140234 - SB-3 (48-50')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 42672	Date Analyzed: 2007-11-02	Analyzed By: AR
Prep Batch: 36819	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		738	mg/Kg	50	2.00

Sample: 140235 - SB-4 (8-10')

Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A
QC Batch: 42672	Date Analyzed: 2007-11-02	Analyzed By: AR
Prep Batch: 36819	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 140236 - SB-4 (18-20')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42672 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36819 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 140237 - SB-4 (28-30')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42673 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36820 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 140238 - SB-4 (38-40')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42673 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36820 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 140239 - SB-4 (48-50')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42673 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36820 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		188	mg/Kg	50	2.00

Sample: 140240 - SB-5 (8-10')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42673 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36820 Sample Preparation: Prepared By: AR

continued ...

sample 140240 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 140241 - SB-5 (18-20')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 42673 Date Analyzed: 2007-11-02 Analyzed By: AR
 Prep Batch: 36820 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 140242 - SB-5 (28-30')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 42673 Date Analyzed: 2007-11-02 Analyzed By: AR
 Prep Batch: 36820 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 140243 - SB-5 (38-40')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 42673 Date Analyzed: 2007-11-02 Analyzed By: AR
 Prep Batch: 36820 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 140244 - SB-5 (48-50')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 42673 Date Analyzed: 2007-11-02 Analyzed By: AR
 Prep Batch: 36820 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		140	mg/Kg	50	2.00

Sample: 140245 - SB-6 (8-10')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42673 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36820 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1510	mg/Kg	50	2.00

Sample: 140246 - SB-6 (18-20')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42673 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36820 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		7780	mg/Kg	50	2.00

Sample: 140247 - SB-6 (28-30')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42674 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36821 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		6680	mg/Kg	50	2.00

Sample: 140248 - SB-6 (38-40')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42674 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36821 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4660	mg/Kg	50	2.00

Sample: 140249 - SB-6 (48-50')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 42674 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36821 Sample Preparation: Prepared By: AR

continued ...

sample 140249 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3340	mg/Kg	50	2.00

Method Blank (1) QC Batch: 42445

QC Batch: 42445 Date Analyzed: 2007-10-26 Analyzed By: LD
Prep Batch: 36624 QC Preparation: 2007-10-26 Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		19.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		127	mg/Kg	1	150	85	32.9 - 156.1

Method Blank (1) QC Batch: 42473

QC Batch: 42473 Date Analyzed: 2007-10-26 Analyzed By: DC
Prep Batch: 36635 QC Preparation: 2007-10-26 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.694	mg/Kg	1	1.00	69	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.456	mg/Kg	1	1.00	46	25 - 123.7

Method Blank (1) QC Batch: 42482

QC Batch: 42482 Date Analyzed: 2007-10-29 Analyzed By: LD
Prep Batch: 36666 QC Preparation: 2007-10-29 Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		95.0	mg/Kg	1	150	63	32.9 - 156.1

Method Blank (1) QC Batch: 42485

QC Batch: 42485 Date Analyzed: 2007-10-26 Analyzed By: DC
Prep Batch: 36635 QC Preparation: 2007-10-26 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.714	mg/Kg	1	1.00	71	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.490	mg/Kg	1	1.00	49	24.6 - 123

Method Blank (1) QC Batch: 42631

QC Batch: 42631 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36787 QC Preparation: 2007-11-01 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 42632

QC Batch: 42632 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36790 QC Preparation: 2007-11-01 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 42672

QC Batch: 42672 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36819 QC Preparation: 2007-11-02 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 42673

QC Batch: 42673 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36820 QC Preparation: 2007-11-02 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 42674

QC Batch: 42674 Date Analyzed: 2007-11-02 Analyzed By: AR
Prep Batch: 36821 QC Preparation: 2007-11-02 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Laboratory Control Spike (LCS-1)

QC Batch: 42445 Date Analyzed: 2007-10-26 Analyzed By: LD
Prep Batch: 36624 QC Preparation: 2007-10-26 Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	230	mg/Kg	1	250	<13.4	92	49.1 - 142.3

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	248	mg/Kg	1	250	<13.4	99	49.1 - 142.3	8	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
n-Triacontane	183	163	mg/Kg	1	150	122	109	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 42473 Date Analyzed: 2007-10-26 Analyzed By: DC
Prep Batch: 36635 QC Preparation: 2007-10-26 Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.858	mg/Kg	1	1.00	<0.00110	86	71.2 - 119
Toluene	0.904	mg/Kg	1	1.00	<0.00150	90	76.3 - 116.5
Ethylbenzene	0.915	mg/Kg	1	1.00	<0.00160	92	77.6 - 114
Xylene	2.78	mg/Kg	1	3.00	<0.00410	93	78.8 - 113.9

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.817	mg/Kg	1	1.00	<0.00110	82	71.2 - 119	5	20
Toluene	0.866	mg/Kg	1	1.00	<0.00150	87	76.3 - 116.5	4	20
Ethylbenzene	0.882	mg/Kg	1	1.00	<0.00160	88	77.6 - 114	4	20
Xylene	2.68	mg/Kg	1	3.00	<0.00410	89	78.8 - 113.9	4	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.658	0.653	mg/Kg	1	1.00	66	65	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.610	0.612	mg/Kg	1	1.00	61	61	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 42482
Prep Batch: 36666

Date Analyzed: 2007-10-29
QC Preparation: 2007-10-29

Analyzed By: LD
Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	290	mg/Kg	1	250	<13.4	116	49.1 - 142.3

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	273	mg/Kg	1	250	<13.4	109	49.1 - 142.3	6	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
n-Triacontane	104	101	mg/Kg	1	150	69	67	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 42485
Prep Batch: 36635

Date Analyzed: 2007-10-26
QC Preparation: 2007-10-26

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.94	mg/Kg	1	10.0	<0.739	79	56 - 105.2

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.48	mg/Kg	1	10.0	<0.739	75	56 - 105.2	6	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.836	0.854	mg/Kg	1	1.00	84	85	61.1 - 148.1

continued ...

Laboratory Control Spike (LCS-1)

QC Batch: 42673
Prep Batch: 36820

Date Analyzed: 2007-11-02
QC Preparation: 2007-11-02

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.3	mg/Kg	1	100	<0.500	98	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
Chloride	99.2	mg/Kg	1	100	<0.500	99	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 42674
Prep Batch: 36821

Date Analyzed: 2007-11-02
QC Preparation: 2007-11-02

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	101	mg/Kg	1	100	<0.500	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
Chloride	102	mg/Kg	1	100	<0.500	102	85 - 115	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: 140213

QC Batch: 42445
Prep Batch: 36624

Date Analyzed: 2007-10-26
QC Preparation: 2007-10-26

Analyzed By: LD
Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	292	mg/Kg	1	250	<13.4	117	30.2 - 201.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	278	mg/Kg	1	250	<13.4	111	30.2 - 201.4	5	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
n-Triacontane	154	137	mg/Kg	1	150	103	91	10 - 194

Matrix Spike (MS-1) Spiked Sample: 140179

QC Batch: 42473
Prep Batch: 36635

Date Analyzed: 2007-10-26
QC Preparation: 2007-10-26

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.874	mg/Kg	1	1.00	<0.00110	87	65.7 - 119.1
Toluene	0.950	mg/Kg	1	1.00	<0.00150	95	47.7 - 153.8
Ethylbenzene	1.01	mg/Kg	1	1.00	<0.00160	101	73.5 - 126.3
Xylene	3.08	mg/Kg	1	3.00	<0.00410	103	73.6 - 125.9

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	0.828	mg/Kg	1	1.00	<0.00110	83	65.7 - 119.1	5	20
Toluene	0.902	mg/Kg	1	1.00	<0.00150	90	47.7 - 153.8	5	20
Ethylbenzene	0.963	mg/Kg	1	1.00	<0.00160	96	73.5 - 126.3	5	20
Xylene	2.94	mg/Kg	1	3.00	<0.00410	98	73.6 - 125.9	5	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.660	0.655	mg/Kg	1	1	66	66	51 - 109.6
4-Bromofluorobenzene (4-BFB)	0.668	0.660	mg/Kg	1	1	67	66	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 140214

QC Batch: 42482
Prep Batch: 36666

Date Analyzed: 2007-10-29
QC Preparation: 2007-10-29

Analyzed By: LD
Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	252	mg/Kg	1	250	<13.4	101	30.2 - 201.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	289	mg/Kg	1	250	<13.4	116	30.2 - 201.4	14	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
n-Triacontane	156	146	mg/Kg	1	150	104	97	10 - 194

Matrix Spike (MS-1) Spiked Sample: 140166

QC Batch: 42485
Prep Batch: 36635

Date Analyzed: 2007-10-26
QC Preparation: 2007-10-26

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.20	mg/Kg	1	10.0	<0.739	72	10 - 102.2

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
GRO	6.74	mg/Kg	1	10.0	<0.739	67	10 - 102.2	7	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.537	0.538	mg/Kg	1	1	54	54	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	0.846	0.830	mg/Kg	1	1	85	83	58 - 162.6

Matrix Spike (MS-1) Spiked Sample: 140216

QC Batch: 42631 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36787 QC Preparation: 2007-11-01 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12900	mg/Kg	50	5000	8144.33	95	85 - 115

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	12900	mg/Kg	50	5000	8144.33	95	85 - 115	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: 140226

QC Batch: 42632 Date Analyzed: 2007-11-01 Analyzed By: AR
Prep Batch: 36790 QC Preparation: 2007-11-01 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 5490	mg/Kg	50	5000	1320.93	83	85 - 115

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 5540	mg/Kg	50	5000	1320.93	84	85 - 115	1	20

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

¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	96.8	97	85 - 115	2007-11-02

Standard (CCV-1)

QC Batch: 42674

Date Analyzed: 2007-11-02

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2007-11-02

work order: 7102426

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME: Celero

SITE MANAGER: Ike Tawney / Jeff Kindley

PROJECT NO.: 3133

Rock Oven Unit 33

SAMPLE IDENTIFICATION

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD			
								HCL	HNO3	ICE	NONE
140213	10/23/07		S	✓	✓	1		✓	✓	✓	✓
214	10/23/07		S	✓	✓	1		✓	✓	✓	✓
215	10/23/07		S	✓	✓	1		✓	✓	✓	✓
216	10/23/07		S	✓	✓	1		✓	✓	✓	✓
217	10/23/07		S	✓	✓	1		✓	✓	✓	✓
218	10/23/07		S	✓	✓	1		✓	✓	✓	✓
219	10/23/07		S	✓	✓	1		✓	✓	✓	✓
220	10/23/07		S	✓	✓	1		✓	✓	✓	✓
221	10/23/07		S	✓	✓	1		✓	✓	✓	✓
222	10/23/07		S	✓	✓	1		✓	✓	✓	✓

DATE: 10-24-07 TIME: 4:00

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DATE: 10-24-07 TIME: 16:30

REMARKS: All tests - Midland

DATE: 10-24-07 TIME: 16:30

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DATE: 10-24-07 TIME: 16:30

REMARKS: All tests - Midland

DATE: 10-24-07 TIME: 16:30

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DATE: 10-24-07 TIME: 16:30

REMARKS: All tests - Midland

ANALYSIS REQUEST (Circle or Specify Method No.)

GC/MS Vol B240/B260/B24	✓
GC/MS Seml Vol B270/B25	✓
PCB's B080/B08	✓
Perl. B08/B08	✓
BOD, TSS, PH, TDS, Chloride	✓
Gamma Spec	✓
Alpha Beta (Air)	✓
PbM (Asbestos)	✓

DATE: October 23, 2007

SAMPLED BY: (Print & Sign) Jeff Kindley

DATE: October 23, 2007

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DATE: 10-24-07 TIME: 4:00

REMARKS: All tests - Midland

DATE: 10-24-07 TIME: 16:30

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DATE: 10-24-07 TIME: 16:30

REMARKS: All tests - Midland

DATE: 10-24-07 TIME: 16:30

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PAGE: 1 OF: 4

ANALYSIS REQUEST (Circle or Specify Method No.)

GC/MS Vol B240/B260/B24

GC/MS Seml Vol B270/B25

PCB's B080/B08

Perl. B08/B08

BOD, TSS, PH, TDS, Chloride

Gamma Spec

Alpha Beta (Air)

PbM (Asbestos)

DATE: October 23, 2007

SAMPLED BY: (Print & Sign) Jeff Kindley

DATE: October 23, 2007

RECEIVED BY: (Signature) _____

RECEIVED BY: (Signature) _____

RECEIVED BY: (Signature) _____

RECEIVED BY: (Signature) _____

DATE: 10-24-07 TIME: 4:00

REMARKS: All tests - Midland

DATE: 10-24-07 TIME: 16:30

RECEIVED BY: (Signature) _____

RECEIVED BY: (Signature) _____

RECEIVED BY: (Signature) _____

RECEIVED BY: (Signature) _____

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PAGE: 1 OF: 4

ANALYSIS REQUEST (Circle or Specify Method No.)

GC/MS Vol B240/B260/B24

GC/MS Seml Vol B270/B25

PCB's B080/B08

Perl. B08/B08

BOD, TSS, PH, TDS, Chloride

Gamma Spec

Alpha Beta (Air)

PbM (Asbestos)

DATE: October 23, 2007

SAMPLED BY: (Print & Sign) Jeff Kindley

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PAGE: 1 OF: 4

ANALYSIS REQUEST (Circle or Specify Method No.)

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GC/MS Seml Vol B270/B25

PCB's B080/B08

Perl. B08/B08

BOD, TSS, PH, TDS, Chloride

Gamma Spec

Alpha Beta (Air)

PbM (Asbestos)

DATE: October 23, 2007

SAMPLED BY: (Print & Sign) Jeff Kindley

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BOD, TSS, PH, TDS, Chloride

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DATE: October 23, 2007

SAMPLED BY: (Print & Sign) Jeff Kindley

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ANALYSIS REQUEST (Circle or Specify Method No.)

GC/MS Vol B240/B260/B24

GC/MS Seml Vol B270/B25

PCB's B080/B08

Perl. B08/B08

BOD, TSS, PH, TDS, Chloride

Gamma Spec

Alpha Beta (Air)

PbM (Asbestos)

DATE: October 23, 2007

SAMPLED BY: (Print & Sign) Jeff Kindley

DATE: October 23, 2007

RECEIVED BY: (Signature) _____

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DATE: 10-24-07 TIME: 4:00

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REMARKS: All tests - Midland

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PAGE: 1 OF: 4

ANALYSIS REQUEST (Circle or Specify Method No.)

GC/MS Vol B240/B260/B24

GC/MS Seml Vol B270/B25

PCB's B080/B08

Perl. B08/B08

BOD, TSS, PH, TDS, Chloride

Gamma Spec

Alpha Beta (Air)

PbM (Asbestos)

DATE: October 23, 2007

SAMPLED BY: (Print & Sign) Jeff Kindley

DATE: October 23, 2007

RECEIVED BY: (Signature) _____

Work order: 7102426

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME: Celero SITE MANAGER: Ike Tawny / Jeff Kindley

PROJECT NO.: 3133 PROJECT NAME: Red Austin Unit 33

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	PRESERVATIVE METHOD			FILTERED (Y/N)	NUMBER OF CONTAINERS
							HCL	HNO3	ICE		
140233	10/23/07		S	✓	✓	SB-3 (28-40')	✓	✓	✓	1	1
234	10/23/07		S	✓	✓	SB-3 (48-50')	✓	✓	✓	1	1
235	10/23/07		S	✓	✓	SB-4 (78-10')	✓	✓	✓	1	1
236	10/23/07		S	✓	✓	SB-4 (18-20')	✓	✓	✓	1	1
237	10/23/07		S	✓	✓	SB-4 (28-30')	✓	✓	✓	1	1
238	10/23/07		S	✓	✓	SB-4 (38-40')	✓	✓	✓	1	1
239	10/23/07		S	✓	✓	SB-4 (48-50')	✓	✓	✓	1	1
240	10/23/07		S	✓	✓	SB-5 (8-10')	✓	✓	✓	1	1
241	10/23/07		S	✓	✓	SB-5 (18-20')	✓	✓	✓	1	1
242	10/23/07		S	✓	✓	SB-5 (28-30')	✓	✓	✓	1	1

RELINQUISHED BY: (Signature) [Signature] Date: 10-24-07 Time: 9:00 RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____ RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____ RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RECEIVING LABORATORY: Trace Analytica STATE: Tx ZIP: _____ DATE: 10.24.07 TIME: 10:00

ADDRESS: Midland PHONE: _____

CONTACT: _____

MATRIX: W-Water S-Soil A-Air SL-Sludge SD-Solid O-Other

SAMPLE CONDITION WHEN RECEIVED: 2.1 c vial out

REMARKS: All tests - Midland

DATE: October 23, 2007 TIME: _____

SAMPLED BY: (Print & Sign) Jeff Kindley SIGNED BY: Jeff Kindley

PERIOD: _____ AIRBILL # _____

OTHER: _____

RESULTS BY: _____

HIGHLANDER CONTACT PERSON: Ike Tawny / Jeff Kindley

BUSH CHARGES AUTHORIZED: _____

Yes _____ No _____

ANALYSIS REQUEST (Circle or Specify Method No.)

PCMS Vol. 8240/8260/824	✓
PCMS Semt. Vol. 8270/825	✓
PCB's 8080/808	✓
Pest. 808/808	✓
BOD, TSS, PH, TDS, Chloride	✓
Gamma Spec.	✓
Alpha Beta (Air)	✓
PLM (Asbestos)	✓

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

**APPENDIX B
PERMEABILITY/SIEVE ANALYSIS**

Hines, Joleen

From: Hines, Joleen
Sent: Monday, September 26, 2005 3:48 PM
To: 'John P Pellicer'
Subject: Cover Bucket Density & Clay K-Sat

John,

I have attached the results for the density of the cover material 'as-is' in the 5-gal bucket, and the saturated hydraulic conductivity for the clay (remolded at 90%). Please let me know how to proceed.

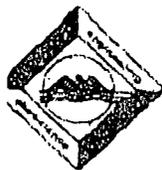
Thank you,

Joleen

Joleen Hines
Daniel B. Stephens & Associates Laboratory
5840 Osuna Rd., NE
Albuquerque, NM 87109

505.889.7752
505.889.0258(fax)
jhines@dbstephens.com
www.dbstephens.com

9/26/2005



Daniel B. Stephens & Associates, Inc.

**Data for Initial Moisture Content,
Bulk Density, Porosity, and Percent Saturation**

Job Name: Gandy Marley
Job Number: LB05.0206.00
Sample Number: Cover (Bucket)
Ring Number: N/A
Depth: N/A

Test Date: 23-Sep-05

Field weight* of sample (g): 21536.00
Tare weight, ring (g): 0.00
Tare weight, cap/plate/epoxy (g): 0.00

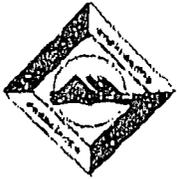
Dry weight of sample (g): 20511.00
Sample volume (cm³): 14884.53
Assumed particle density: 2.85

Initial Volumetric Moisture Content (% vol): 6.9
Initial Gravimetric Moisture Content (% g/g): 5.0
Dry bulk density (g/cm³): 1.38
Wet bulk density (g/cm³): 1.45
Calculated Porosity (% vol): 48.0
Percent Saturation: 14.3

Comments:

* Weight including tares
NA = Not analyzed

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines



Daniel B. Stephens & Associates, Inc.

Summary of Saturated Hydraulic Conductivity Tests

Sample Number	K_{sat} (cm/sec)	Method of Analysis	
		Constant Head Flexible Wall	Falling Head Flexible Wall
Clay	1.5E-08		X



Daniel B. Stephens & Associates, Inc.

SAMPLE RECEIPT FORM

CLIENT: Gandy Marley, Inc.
PROJECT #: _____

DATE RECEIVED: 9/16/05

DBS&A
PROJECT #: _____

- 1) Are the custody seals on the cooler intact? NA
- 2) Are the custody seals on the sample containers intact? Yes
- 3) Are there Chain of Custody(COC), or other directive shipping papers? Yes
- 4) Is the COC complete? See Notes
- 5) Is the COC in agreement with the samples received? See Notes
- 6) Did all the samples arrive intact? Yes
- 7) Comments

Three samples arrived, each in full 5-gallon buckets, in good condition. The clay sample is being prepared today and testing will begin soon. Will await further instruction on the Cover and Caliche samples. Also awaiting in-situ clay core sample.

If you have any questions or concerns please contact Joleen Hines at (505) 889-7752.

NOTE: Samples will be held for a period of 30 days after the completion of testing. After 30 days samples will be disposed of locally unless DBS&A receives other instructions.

Signature: *Joleen Hines*

5840 OSUNA RD NE, ALBUQUERQUE, NM 87109

(505) 889-7752 FAX (505) 889-0258

Disclaimer:

Interpretations of test results, interim reports of laboratory work, and research and development of special equipment or test procedures will be charged at our regular schedule of professional services fees, which is available upon request. The testing utilized to generate laboratory reports follows methods that are standard for the industry. The results do not constitute a professional or expert opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. All testing undertaken by DBS&A, and any and all reports provided from said testing, constitute mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion. Because of the nature of the results of our testing, and the limited scope of the Lab's undertaking, you hereby waive any claim of conflict of interest by DBS&A in the event professional or expert opinion is requested of qualified professionals or experts within DBS&A, for or against any party. Other than the express warranty that the testing utilized under this Contract uses standard methods, DBS&A disclaims any and all other warranties of any kind whatsoever.

APPENDIX C
INITIAL/FINAL C-141 & C-144

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised June 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

(AMENDED)

OPERATOR

Initial Report Final Report

Name of Company: Celero Energy II, LP	Contact: Bruce Woodard
Address: 400 W. Illinois, Suite 1601, Midland, TX 79701	Telephone No. 432-686-1883
Facility Name: Rock Queen Unit Tract #33 Tank Battery	Facility Type: Pit at Tank Battery
Surface Owner Private	Mineral Owner
Lease No.	

LOCATION OF RELEASE

Unit Letter	Section\	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	23	13S	31E					Chaves

Latitude 33.17611° Longitude 103.79611°

NATURE OF RELEASE

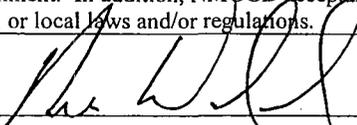
Type of Release Produced Water	Volume of Release Unknown	Volume Recovered None
Source of Release	Date and Hour of Occurrence Unknown	Date and Hour of Discovery N/A
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson, NMOCD	
By Whom? Bruce Woodard	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
This is an historic pit location. Celero acquired from Palisades and is in the process of closing.

Describe Area Affected and Cleanup Action Taken.*
Pit has been dewatered and visually impacted soil removed as per Investigation and Characterization Plan. Soil borings have been placed in and around pit.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Bruce Woodard	Approved by District Supervisor:	
Title: Engineer	Approval Date:	Expiration Date:
E-mail Address: bwoodard@celeroenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Phone: (432) 686-1883		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

(AMENDED)

OPERATOR

Initial Report Final Report

Name of Company: Celero Energy II, LP	Contact: Bruce Woodard
Address: 400 W. Illinois, Suite 1601, Midland, TX 79701	Telephone No. 432-686-1883
Facility Name: Rock Queen Unit Tract #33 Tank Battery	Facility Type: Pit at Tank Battery
Surface Owner Private	Mineral Owner
Lease No.	

LOCATION OF RELEASE

Unit Letter F	Section 23	Township 13S	Range 31E	Feet from the	North/South Line	Feet from the	East/West Line	County Chaves
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	------------------

Latitude 33.17611° Longitude 103.79611°

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Unknown	Volume Recovered None
Source of Release	Date and Hour of Occurrence Unknown	Date and Hour of Discovery N/A
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson, NMOCD	
By Whom? Bruce Woodard	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

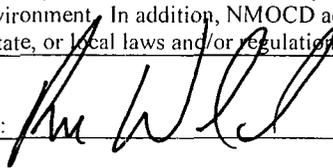
This is an historic pit location. Celero acquired from Palisades and is in the process of closing.

Describe Area Affected and Cleanup Action Taken.*

Pit has been dewatered and visually impacted soil removed as per Investigation and Characterization Plan. Soil borings have been placed in and around pit. A one foot thick clay liner was installed at four feet bgs and the site brought up to surface grade.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor:	
Printed Name: Bruce Woodard	Approval Date:	Expiration Date:
Title: Engineer	Conditions of Approval:	
E-mail Address: bwoodard@celeroenergy.com	Attached <input type="checkbox"/>	
Date: Phone: (432) 686-1883		

Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No

Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

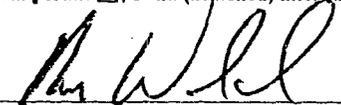
Operator: Celero Energy II, LP Telephone: (432) 686-1883 e-mail address: bwoodard@celeroenergy.com
Address: 400 West Illinois, Suite 1601, Midland, Texas 79701
Facility or well name: Rock Queen Unit Tract 33 Tank Battery API #: _____ U/L or Qtr/Qtr F. Sec 23 T-13-S R-31-E
County: Chaves Latitude 33.17611 N Longitude 103.79611 W NAD: 1927 1983
Surface Owner: Federal State Private Indian

Pit	Below-grade tank	
Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: None Thickness Unknown mil Clay <input type="checkbox"/> Pit Volume 2,500 bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 points)	0
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) No (0 points)	0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points)	0
Ranking Score (Total Points)		0

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite offsite If offsite, name of facility _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No Yes If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: This registration is for information purposes only. This pit was constructed in the 1960's and was never inventoried or registered.
This pit is out of service and a work plan for closure is being prepared.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan . See above

Date: 6-15-2007
Printed Name/Title: Bruce Woodard, Engineer Signature: 

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title _____ Signature _____ Date: _____

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No

Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

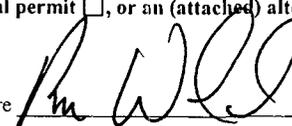
Operator: Celero Energy II, LP Telephone: (432) 686-1883 e-mail address: bwoodward@celeroenergy.com
Address: 400 West Illinios, Suite 1601, Midland, Texas 79701
Facility or well name: Rock Queen Unit Tract 33 Tank Battery API #: _____ U/L or Qtr/Qtr F Sec 23 T 13-S R 31-E
County: Chaves Latitude 33.17611 N Longitude 103.79611 NAD: 1927 1983
Surface Owner: Federal State Private Indian

Pit	Below-grade tank	
Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type: None Thickness Unknown Clay <input type="checkbox"/> Pit Volume <u>2,500</u> bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. _____	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) approximately 110 feet	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points) 0
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) 0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) 0
Ranking Score (Total Points)		0

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite offsite If offsite, name of facility Gandy-Marley Landfill, Lovington, NM. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No Yes If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: Pit was constructed in the 1960s and was never inventoried or registered. This pit is out of service and a work plan has been completed and approved for closure. In September 2007 fluids were removed from site and placed into an existing SWD system. The site was excavated and sludge, tank bottoms and the liner were disposed of at Gandy-Marley, Inc. landfill in Lovington, New Mexico. Upon completion of the removal of the fluids the underlying soils were visually inspected for obvious signs of impact. Approximately 460 cubic yards of soil were transported to Gandy-Marley for disposal. On October 23, 2007, one soil boring was placed within the pit and six along the perimeter to delineate the chlorides. See attached map/table showing depths and concentrations of chlorides remaining within the pit. A one foot clay liner measuring approximately 110 feet by 135 feet was placed in the pit to a depth of 4.0 feet below the ground level to prevent further vertical migration of the chlorides. The site was then backfilled with clean soil and brought up to surface grade.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .

Date: _____
Printed Name/Title Bruce Woodward, Engineer Signature 

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title _____ Signature _____ Date: _____