1RP-1664

Assessment and closure Report

DATE: Oct. 2009



Section 2

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 CI-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

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

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Table 1 Celero Energy Rock Queen Unit Tract #33 Chaves County, New Mexico Chloride (mg/kg) 9450 4500 1630 3600 3890 5130 6240 8140 4900 8060 6450 3800 4150 4720 1320 2510 1010 1050 <100 <100 <100 <100 <100 <100 <100 <100 8460 347 972 738 188 140 Xylene (mg/kg) <0.0100 <0.0100 ł . . . ī , . . . ī Ethlybenzene (mg/kg) <0.0100 <0.0100 , ł ī ī ı, 1 ÷ 1 ÷ . 1 ī. t 1 . ı. 1 Toluene. (mg/kg) <0.0100 <0.0100 . . 1 1 1 ı ī . . 4 . 1 ı . . ı ī ī 1 . ī ł • (mg/kg) Benzene <0.0100 <0.0100 . 1 ı ī • 1 ı ī ī. ı . 4 ı ı ī ī ī ī ī ī 1 • . . ı 1 <50.0 <50.0 Total . 4 . r , ŧ . . . 1 ī ï ī ī 1 . . ī . ı . . . 1 . . ı TPH (mg/kg) GRO <1.00 <1.00 , ۱ 1 ı. ı . 4 1 ī ı . 1 , ı ı. ī ł ī ı, ı ı 1 ı . 1 a. EDRO <50.0 <50.0 . ī ı. 1 ī ı ı ï 1 ı ī ı ï ī ı. ı. ÷ ı. ī ī ī ī ı. 1 . Depth (ft) (68-70') (98-100') (18-20') (28-30') (38-40') (48-50') (18-20') (28-30') (38-40') (18-20') (28-30') (18-20') (48-50') (18-20') (28-30') (78-80') (28-30') (38-40') (48-50') (48-50') (58-60') (88-90') 38-40') (48-50') (13-15') 38-40') (8-10') (8-10') (8-10') (8-10') (8-10') (3-5') Sampled 10/23/2007 Date Sample SB-2 SB-3 SB-4 SB-5 SB-1

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

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Sample	Jate Date	Excavation		CPH (mg/kg		Benzene	Toluene	Ethlybenzene	Xylene	Chloride
OI T	Sampled	Depth (ft)	DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-6	10/23/2007	(8-10')	1	1	•	•	-	-	-	1510
	10/23/2007	(18-20')		1	•	•	•	-	-	7780
	10/23/2007	(28-30')		•	•	•	ŀ	-	•	6680
	10/23/2007	(38-40')	-		•	-	•	-	•	4660
	10/23/2007	(48-50')	•	•	-	-	-	-	1	3340
SB-7	10/24/2007	(8-10')	•	-		-	1	1	·	2640
	10/24/2007	(18-20')	,		1	-	-	1	•	3100
	10/24/2007	(28-30')	•	-	ŀ	-	-	-	ł	529
	10/24/2007	(38-40')	1	1	-	-	-	1	1	<100
	10/24/2007	(48-50')	•	•	1	1		1	1	<100
(-) Not Analyzed										

(-) Not Analyzed

APPENDIX A LABORATORY ANALYTICAL

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6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110

Lubbock, Texas 79424 800 • 378 • 1296 El Paso, Texas 79922 888 • 588 • 3443 Midland, Texas 79703 Ft, Worth, Texas 76132 E-Mail: lab@traceanalysis.com

200•378•1296 806•794•1296 888•588•3443 915•585•3443 432•689•6301 817•201•5260

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 FAX 806 • 794 • 1298

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 FAX 915 • 585 • 4944

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 FAX 432 • 689 • 6313

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Analytical and Quality Control Report

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

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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.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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.

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Dr. Blair Leftwich, Director

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Analytical Report

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

Analysis: QC Batch: Prep Batch:	BTEX 42473 36635		Analytical M Date Analyz Sample Pres	Method: zed: paration:	S 8021B 2007-10-26 2007-10-26		Prep Me Analyze Prepare	ethod: S d By: I d By: I	5035 DC DC
1				L			•	Ū	
Devementer	E1	0.77	RI	ر ۲	Unita		Dilution		DI
Parameter		ag		ו <u></u>	mg/Kg				$\frac{\Lambda D}{1.0100}$
Toluene))	mg/Kg		1	(0100
Ethylbongon	`)	mg/Kg		1	(0100
Xvlene	2		<0.0100	י ו	mg/Kg		1	(0100
<u></u>							<u> </u>		
						Spike	Percent	Reco	overy
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Lin	nits
Trifluorotolu	ene (TFT)		0.732	mg/Kg	1	1.00	73	39.6	- 116
4-Bromofluor	obenzene (4-BFB)	0.626	mg/Kg	1	1.00	63	47.3 -	144.2
Sample: 14 Analysis: QC Batch: Prep Batch:	0213 - SB-1 (3- Chloride (Titrat 42631 36787	5') .ion)	Analy Date Samp	rtical Meth Analyzed: le Prepara	od: SM 45 2007-1 tion:	500-Cl B 11-01	Prep Analy Prepa	Method: vzed By: ured By:	N/A AR AR
			RL						
Parameter	Flag	g 5	Result		Units		Dilution		<u>RL</u>
Chloride			5130		mg/Kg		50		2.00
Sample: 14 Analysis: QC Batch: Prep Batch:	0213 - SB-1 (3- TPH DRO 42445 36624	5')	Analytica Date Ana Sample P	l Method: lyzed: reparation	Mod. 801 2007-10-2 2007-10-2	5B 6 6	Prep Analy Prepa	Method: vzed By: ared By:	N/A LD LD
Paramotor	Fla	r.	RL		Unito		Dilution		ът
DRO	Piaj	5			mg/Kg		1		50.0
					mg/ ng		L		00.0
						Spike	Percent	Reco	overy
Surrogate	\mathbf{Flag}	Result	Units	Dilı	ution	Amount	Recovery	Lir	nits
n-Triacontan	e	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

-	-		RL		TT			DI
Parameter	Flag		Result		Units		Dilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate	_	Flag	Result	Units	Dilution	Spike	Percent	Recovery Limits
Trifluorotoluene (TFT)	_	1 145	0.693	mg/Kg	1	1.00	<u>69</u>	50.2 - 89.3
4-Bromofluorobenzene (4-E	BFB)		0.670	mg/Kg	1	1.00	67	51.2 - 107.4

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

Analysis: QC Batch:	BTEX 42473			Analytical M Date Analyz	Method: zed:	S 8021B 2007-10-26		Prep Me Analyze	ethod: d By:	S 5035 DC
Prep Batch:	36635			Sample Pre	paration:	2007-10-26		Prepare	d By:	DC
				RI	J					
Parameter		Flag		Result	t	Units		Dilution		RL
Benzene				< 0.0100)	mg/Kg		1		0.0100
Toluene				< 0.0100)	mg/Kg		1		0.0100
Ethylbenzene	9			< 0.0100)	mg/Kg		1		0.0100
Xylene				< 0.0100)	mg/Kg		1		0.0100
							Spike	Percent	Re	covery
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	\mathbf{L}	imits
Trifluorotolu	ene (TFT)			0.741	mg/Kg	1	1.00	74	39.	6 - 116
4-Bromofluor	obenzene (4-Bl	FB)		0.624	mg/Kg	1	1.00	62	47.3	- 144.2

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

Analysis: OC Batch:	Chloride (Titration) 42631	Analytical Mo Date Analyze	ethod: SM 4500-Cl B	Prep Method: Analyzed By:	N/A AB
Prep Batch:	36787	Sample Prepa	aration:	Prepared By:	AR
		\mathbf{RL}			
Parameter	\mathbf{Flag}	Result	Units	Dilution	RL
Chloride		6240	mg/Kg	50	2.00

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

Analysis: QC Batch: Prep Batch:	TPH DRO 42482 36666		Analytical Date Anal Sample Pr	l Method: lyzed: reparation:	Mod. 8015 2007-10-29 2007-10-29	В	Prep Ana Prep	o Method: lyzed By: pared By:	N/A LD LD
			RL						
Parameter		Flag	Result		Units		Dilution		\mathbf{RL}
DRO			<50.0		mg/Kg		1		50.0
Surrogate	Flag	Result	Units	Dilut	ion A	Spike Amount	Percent Recovery	Reco Lin	overy nits
n-Triacontan	e	142	mg/Kg	1		150	95	17.3 -	169.6

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

Analysis: QC Batch: Prep Batch:	TPH GRO 42485 36635		Analytical Date Anal Sample Pr	Method: yzed: eparation:	S 8015B 2007-10-26 2007-10-26		Prep Me Analyzeo Prepareo	thod: S 5035 d By: DC d By: DC
			RL		·			
Parameter	\mathbf{Flag}		Result		Units		Dilution	RL
GRO			<1.00		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.702	mg/Kg	1	1.00	70	50.2 - 89.3
4-Bromofluor	obenzene (4-BFB)		0.699	mg/Kg	1	1.00	70	51.2 - 107.4

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

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 42631 36787	Analytical Met Date Analyzed Sample Prepar	hod: SM 4500-Cl B : 2007-11-01 ation:	Prep Method: Analyzed By: Prepared By:	N/A AR AR
Parameter	Flog	RL Bogult	Unito	Dilution	זמ
Farameter	Flag	nesun	Units	Dilution	ILL .
Chloride		9450	mg/Kg	50	2.00

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

Analysis: OC Batch:	Chloride (Titration) 42631	Analytical Me Date Analyzed	thod: SM 4500-Cl B 1: 2007-11-01	Prep Method: Analyzed By:	N/A AR
Prep Batch:	36787	Sample Prepa	ration:	Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride	·····	8140	mg/Kg	50	2.00

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

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 42632 36790	Analytical Method: SM 4500-Cl B Date Analyzed: 2007-11-01 Sample Preparation:		Prep Method: Analyzed By: Prepared By:	N/A AR AR
Parameter	Flag	RL Result	Units	Dilution	\mathbf{RL}
Chloride	······································	8460	mg/Kg	50	2.00

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Sample: 140	218 - SB-1 (38-40')				
Analysis: QC Batch: Prep Batch:	Chloride (Titration) 42632 36790	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2007-11-01	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		4900	mg/Kg	50	2.00
Sample: 140	0219 - 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:	\mathbf{AR}
		BI.			
Parameter	Flag	Result	Units	Dilution	RL
	v	8060	/17/	50	-2.00
Chloride			mg/Kg		
Chloride Sample: 140 Analysis: QC Batch:	0220 - SB-1 (58-60') Chloride (Titration) 42632	Analytical Method: Date Analyzed:	mg/Kg SM 4500-Cl B 2007-11-01	Prep Method: Analyzed By:	N/A AR
Chloride Sample: 140 Analysis: QC Batch: Prep Batch:	0 220 - SB-1 (58-60') Chloride (Titration) 42632 36790	Analytical Method: Date Analyzed: Sample Preparation BL	Mg/Kg SM 4500-Cl B 2007-11-01	Prep Method: Analyzed By: Prepared By:	N/A AR AR
Chloride Sample: 140 Analysis: QC Batch: Prep Batch: Parameter	0220 - SB-1 (58-60') Chloride (Titration) 42632 36790 Flag	Analytical Method: Date Analyzed: Sample Preparation RL Result	mg/Kg SM 4500-Cl B 2007-11-01 Units	Prep Method: Analyzed By: Prepared By: Dilution	N/A AR AR RL
Chloride Sample: 140 Analysis: QC Batch: Prep Batch: Parameter Chloride	9 220 - SB-1 (58-60') Chloride (Titration) 42632 36790 Flag	Analytical Method: Date Analyzed: Sample Preparation RL Result 6450	mg/Kg SM 4500-Cl B 2007-11-01 Units mg/Kg	Prep Method: Analyzed By: Prepared By: Dilution 50	N/A AR AR RL 2.00
Chloride Sample: 140 Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 140 Analysis: QC Batch: Prep Batch:	0220 - SB-1 (58-60') Chloride (Titration) 42632 36790 Flag 0221 - SB-1 (68-70') Chloride (Titration) 42632 36790	Analytical Method: Date Analyzed: Sample Preparation RL Result 6450 Analytical Method: Date Analyzed: Sample Preparation	Mg/Kg SM 4500-Cl B 2007-11-01 Units Mg/Kg SM 4500-Cl B 2007-11-01	Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By:	N/A AR AR RL 2.00 N/A AR AR
Chloride Sample: 140 Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 140 Analysis: QC Batch: Prep Batch: Prep Batch:	2220 - SB-1 (58-60') Chloride (Titration) 42632 36790 Flag 2221 - SB-1 (68-70') Chloride (Titration) 42632 36790 Flag	Analytical Method: Date Analyzed: Sample Preparation RL Result 6450 Analytical Method: Date Analyzed: Sample Preparation RL Besult	Mg/Kg SM 4500-Cl B 2007-11-01 Units Mg/Kg SM 4500-Cl B 2007-11-01	Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By: Dilution	N/A AR AR RL 2.00 N/A AR AR AR

continued ...

sample 140222 continued

Parameter	Flag	${ m RL} { m Result}$	Units	Dilution	\mathbf{RL}
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3800	mg/Kg	50	2.00

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

Analysis:	Chloride (Titration)	Analytical M	lethod: SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42632	Date Analyz	ed: 2007-11-01	Analyzed By:	AR
Prep Batch:	36790	Sample Prep	aration:	Prepared By:	\mathbf{AR}
		RL			
Parameter	\mathbf{Flag}	\mathbf{Result}	Units	Dilution	\mathbf{RL}
Chloride		4150	mg/Kg	50	2.00

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

Analysis:	Chloride (Titration)	Analytical Meth	od: 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
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		4720	mg/Kg	50	2.00

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

Analysis:	Chloride (Titration)	Analytical M	lethod: SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42632	Date Analyz	ed: 2007-11-01	Analyzed By:	AR
Prep Batch:	36790	Sample Preparation:		Prepared By:	\mathbf{AR}
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{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 Preparatio	Prepared By:	AR	
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		1320	mg/Kg	50	2.00

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Page Number: 8 of 25

3133	,	Celero-Rock Que	en Unit 33		
Sample: 140	0227 - SB-2 (28-30')				
Analysis: QC Batch: Prep Batch:	Chloride (Titration) 42672 36819	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-11-02	Prep Method: Analyzed By: Prepared By:	N/A AR AR
Parameter	Flag	RL Besult	Units	Dilution	\mathbf{RL}
Chloride	1.00	3600	mg/Kg	50	2.00
Sample: 14	0228 - SB-2 (38-40')				
Analysis: QC Batch: Prep Batch:	Chloride (Titration) 42672 36819	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-11-02	Prep Method: Analyzed By: Prepared By:	N/A AR AR
Panamatan	Flag	RL	Unita	Dilution	DI
Chloride	riag		mg/Kg	50	2.00
Sample: 14 Analysis: QC Batch:	0229 - SB-2 (48-50') Chloride (Titration) 42672	Analytical Method: Date Analyzed:	SM 4500-Cl B 2007-11-02	Prep Method: Analyzed By:	N/A AR
Sample: 14 Analysis: QC Batch: Prep Batch:	0229 - SB-2 (48-50') Chloride (Titration) 42672 36819	Analytical Method: Date Analyzed: Sample Preparation: BL	SM 4500-Cl B 2007-11-02	Prep Method: Analyzed By: Prepared By:	N/A AR AR
Sample: 14 Analysis: QC Batch: Prep Batch: Parameter	0229 - SB-2 (48-50') Chloride (Titration) 42672 36819 Flag	Analytical Method: Date Analyzed: Sample Preparation: RL Result	SM 4500-Cl B 2007-11-02 Units	Prep Method: Analyzed By: Prepared By: Dilution	N/A AR AR RL
Sample: 14 Analysis: QC Batch: Prep Batch: Parameter Chloride	0229 - SB-2 (48-50') Chloride (Titration) 42672 36819 Flag	Analytical Method: Date Analyzed: Sample Preparation: RL Result 2510	SM 4500-Cl B 2007-11-02 Units mg/Kg	Prep Method: Analyzed By: Prepared By: Dilution 50	N/A AR AR RL 2.00
Sample: 14 Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 14	0229 - SB-2 (48-50') Chloride (Titration) 42672 36819 Flag 0230 - SB-3 (8-10')	Analytical Method: Date Analyzed: Sample Preparation: RL Result 2510	SM 4500-Cl B 2007-11-02 Units mg/Kg	Prep Method: Analyzed By: Prepared By: Dilution 50	N/A AR AR RL 2.00
Sample: 14 Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis:	0229 - SB-2 (48-50') Chloride (Titration) 42672 36819 Flag 0230 - SB-3 (8-10') Chloride (Titration)	Analytical Method: Date Analyzed: Sample Preparation: RL Result 2510 Analytical Method:	SM 4500-Cl B 2007-11-02 Units mg/Kg SM 4500-Cl B	Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method:	N/A AR AR 2.00
Sample: 14 Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis: QC Batch:	0229 - SB-2 (48-50') Chloride (Titration) 42672 36819 Flag 0230 - SB-3 (8-10') Chloride (Titration) 42672 26910	Analytical Method: Date Analyzed: Sample Preparation: RL Result 2510 Analytical Method: Date Analyzed:	SM 4500-Cl B 2007-11-02 Units mg/Kg SM 4500-Cl B 2007-11-02	Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Discussed By:	N/A AR AR 2.00 N/A
Sample: 14 Analysis: QC Batch: Prep Batch: Prep Batch: Chloride Sample: 14 Analysis: QC Batch: Prep Batch:	0229 - SB-2 (48-50') Chloride (Titration) 42672 36819 Flag 0230 - SB-3 (8-10') Chloride (Titration) 42672 36819	Analytical Method: Date Analyzed: Sample Preparation: RL Result 2510 Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-11-02 Units mg/Kg SM 4500-Cl B 2007-11-02	Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By:	N/A AR AR 2.00 N/A AR AR
Sample: 14 Analysis: QC Batch: Prep Batch: Prep Batch: Chloride Sample: 14 Analysis: QC Batch: Prep Batch: Prep Batch:	0229 - SB-2 (48-50') Chloride (Titration) 42672 36819 Flag 0230 - SB-3 (8-10') Chloride (Titration) 42672 36819 Flag	Analytical Method: Date Analyzed: Sample Preparation: RL Result 2510 Analytical Method: Date Analyzed: Sample Preparation: RL Result	SM 4500-Cl B 2007-11-02 Units mg/Kg SM 4500-Cl B 2007-11-02 Units	Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By: Dilution	N/A AR AR 2.00 N/A AR AR RL
Sample: 14 Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: Parameter Chloride	0229 - SB-2 (48-50') Chloride (Titration) 42672 36819 Flag 0230 - SB-3 (8-10') Chloride (Titration) 42672 36819 Flag Flag	Analytical Method: Date Analyzed: Sample Preparation: RL Result 2510 Analytical Method: Date Analyzed: Sample Preparation: RL Result 347	SM 4500-Cl B 2007-11-02 Units mg/Kg SM 4500-Cl B 2007-11-02 Units mg/Kg	Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By: Dilution 50	N/A AR AR 2.00 N/A AR AR RL 2.00
Sample: 14 Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Chloride Sample: 14	0229 - SB-2 (48-50') Chloride (Titration) 42672 36819 Flag 0230 - SB-3 (8-10') Chloride (Titration) 42672 36819 Flag 0231 - SB-3 (18-20')	Analytical Method: Date Analyzed: Sample Preparation: RL Result 2510 Analytical Method: Date Analyzed: Sample Preparation: RL Result 347	SM 4500-Cl B 2007-11-02 Units mg/Kg SM 4500-Cl B 2007-11-02 Units mg/Kg	Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By: Dilution 50	N/A AR RL 2.00 N/A AR AR RL 2.00
Sample: 14 Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis:	0229 - SB-2 (48-50') Chloride (Titration) 42672 36819 Flag 0230 - SB-3 (8-10') Chloride (Titration) 42672 36819 Flag 0231 - SB-3 (18-20') Chloride (Titration)	Analytical Method: Date Analyzed: Sample Preparation: RL Result 2510 Analytical Method: Date Analyzed: Sample Preparation: RL Result 347 Analytical Method:	SM 4500-Cl B 2007-11-02 Units mg/Kg SM 4500-Cl B 2007-11-02 Units mg/Kg SM 4500-Cl B	Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method:	N/A AR AR 2.00 N/A AR AR AR RL 2.00 N/A
Sample: 144 Analysis: QC Batch: Prep Batch: Prep Batch: Chloride Sample: 144 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Chloride Sample: 144 Analysis: QC Batch: Prep Batch:	0229 - SB-2 (48-50') Chloride (Titration) 42672 36819 Flag 0230 - SB-3 (8-10') Chloride (Titration) 42672 36819 Flag 0231 - SB-3 (18-20') Chloride (Titration) 42672 26810	Analytical Method: Date Analyzed: Sample Preparation: RL Result 2510 Analytical Method: Date Analyzed: Sample Preparation: RL Result 347 Analytical Method: Date Analyzed: Sample Decement	SM 4500-Cl B 2007-11-02 Units mg/Kg SM 4500-Cl B 2007-11-02 Units mg/Kg SM 4500-Cl B 2007-11-02	Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Dilution 50 Prep Method: Analyzed By: Prep Method:	N/A AR AR 2.00 N/A AR AR RL 2.00 N/A

sample 140231 continued ...

Parameter	Flag	RL Result	Units	Dilution	\mathbf{RL}
		RL			
Parameter	Flag	\mathbf{Result}	Units	Dilution	RL
Chloride		1010	mg/Kg	50	2.00

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

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 42672 36819	Analytical Method: SM 4500-Cl B Date Analyzed: 2007-11-02 Sample Preparation:		Prep Method: Analyzed By: Prepared By:	N/A AR AR
Parameter	Flag	RL Result	Units	Dilution	\mathbf{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:	\mathbf{AR}
Prep Batch:	36819	Sample Preparation:		Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		1050	mg/Kg	50	2.00

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

Analysis:	Chloride (Titration)	Analytical Metl	iod: SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42672	Date Analyzed:	2007-11-02	Analyzed By:	AR
Prep Batch:	36819	Sample Prepara	ation:	Prepared By:	\mathbf{AR}
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{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:	\mathbf{AR}
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		<100	mg/Kg	50	2.00

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Analysis: QC Batch: Prep Batch:	Chloride (Titration) 42672 36819	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2007-11-02 :	Prep Method: Analyzed By: Prepared By:	N/A AR AR
-		RI.			
Parameter	Flag	Result	Units	Dilution	RJ
Chloride		<100	mg/Kg	50	2.0
0 1 14					
Sample: 14	0237 - SB-4 (28-30')				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-CI B	Prep Method:	
QU Batch:	42073	Date Analyzed:	2007-11-02	Analyzed By: Despaced By:	
Frep Datch:	30820	Sample Preparation	:	Prepared by:	An
-		RL			
Parameter	Flag	Result	Units	Dilution	R
Chloride		<100	mg/Kg	50	2.0
Prep Batch:	36820	Sample Preparation	:	Prepared By:	AR
Parameter	Flag	Result	Units	Dilution	R
Chloride		<100	mg/Kg	50	2.0
Sample: 14 Analysis: QC Batch: Prep Batch:	0239 - SB-4 (48-50') Chloride (Titration) 42673 36820	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2007-11-02 :	Prep Method: Analyzed By: Prepared By:	N/2 AR AR
Parameter	Flag	RL Besult	Units	Dilution	R
Chloride	r 105	188	mg/Kg	50	2.0
Sample: 14	.0240 - SB-5 (8-10')		<u></u>		

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

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sample 140240 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
		RL			
Parameter	\mathbf{Flag}	Result	\mathbf{Units}	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

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

Analysis:	Chloride (Titration)	Analytical Me	ethod: SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42673	Date Analyze	d: 2007-11-02	Analyzed By:	\mathbf{AR}
Prep Batch:	36820	Sample Preparation:		Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		<100	mg/Kg	50	2.00

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

Analysis:	Chloride (Titration)	Analytical Met	hod: 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:	\mathbf{AR}
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride	·····	<100	mg/Kg	50	2.00

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

Analysis:	Chloride (Titration)	Analytical Method	i: 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:	\mathbf{AR}
		\mathbf{RL}			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{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	
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		140	mg/Kg	50	2.00

3133	e: November 5, 2007 Work Order: 710 Celero-Rock Queen		7102426 en Unit 33	12426 Page Number: 12 Unit 33		
Sample: 14	0245 - SB-6 (8-10')					
Analysis: QC Batch: Prep Batch:	Chloride (Titration) 42673 36820	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2007-11-02 :	Prep Method: Analyzed By: Prepared By:	N/A AR AR	
		RL				
Parameter	Flag	Result	Units	Dilution	RL	
Chloride		1510	mg/Kg	50	2.00	
Sample: 14	0246 - SB-6 (18-20')					
Analysis: QC Batch: Prep Batch:	Chloride (Titration) 42673 36820	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2007-11-02 :	Prep Method: Analyzed By: Prepared By:	N/A AR AR	
		\mathbf{RL}				
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}	
Chloride		7780	mg/Kg	50	2.00	
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-CI B	Prep Method:	N / A	
QC Batch: Prep Batch:	42674 36821	Date Analyzed: Sample Preparation	2007-11-02	Analyzed By: Prepared By:	AR AR	
QC Batch: Prep Batch:	42674 36821	Date Analyzed: Sample Preparation RL Davids	2007-11-02	Analyzed By: Prepared By:	AR AR DI	
QC Batch: Prep Batch: Parameter Chloride	42674 36821 Flag	Date Analyzed: Sample Preparation RL Result 6680	2007-11-02 : 	Analyzed By: Prepared By: Dilution 50	AR AR RL 2.00	
QC Batch: Prep Batch: Parameter Chloride Sample: 14	42674 36821 Flag 0248 - SB-6 (38-40')	Date Analyzed: Sample Preparation RL Result 6680	2007-11-02 : Units 	Analyzed By: Prepared By: Dilution 50	AR AR RI 2.00	
QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis:	42674 36821 Flag 0248 - SB-6 (38-40') Chloride (Titration)	Date Analyzed: Sample Preparation RL Result 6680 Analytical Method:	2007-11-02 : 	Analyzed By: Prepared By: Dilution 50 Prep Method:	AR AR RL 2.00	
QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis: QC Batch:	42674 36821 Flag 0248 - SB-6 (38-40') Chloride (Titration) 42674	Date Analyzed: Sample Preparation RL Result 6680 Analytical Method: Date Analyzed:	2007-11-02 :	Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By:	N/A AR AR 2.00 N/A AR	
QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis: QC Batch: Prep Batch:	42674 36821 Flag 0248 - SB-6 (38-40') Chloride (Titration) 42674 36821	Date Analyzed: Sample Preparation RL Result 6680 Analytical Method: Date Analyzed: Sample Preparation	2007-11-02 : <u>Units</u> <u>mg/Kg</u> SM 4500-Cl B 2007-11-02 :	Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By:	N/A AR RL 2.00 N/A AR AR	
QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis: QC Batch: Prep Batch: Parameter	42674 36821 Flag 0248 - SB-6 (38-40') Chloride (Titration) 42674 36821 Flag	Date Analyzed: Sample Preparation RL Result 6680 Analytical Method: Date Analyzed: Sample Preparation RL Besult	2007-11-02 : <u>Units</u> mg/Kg SM 4500-Cl B 2007-11-02 :	Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By: Dilution	N/A AR RL 2.00 N/A AR AR	
QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis: QC Batch: Prep Batch: Parameter Chlorida	42674 36821 Flag 0248 - SB-6 (38-40') Chloride (Titration) 42674 36821 Flag	Date Analyzed: Sample Preparation RL Result 6680 Analytical Method: Date Analyzed: Sample Preparation RL Result 4660	2007-11-02 :	Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By: Dilution 50	AR AR AR AR 2.0 N/ AR AR	
QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Chloride Sample: 14	42674 36821 Flag 0248 - SB-6 (38-40') Chloride (Titration) 42674 36821 Flag 0249 - SB-6 (48-50')	Date Analyzed: Sample Preparation RL Result 6680 Analytical Method: Date Analyzed: Sample Preparation RL Result 4660	2007-11-02 :	Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By: Dilution 50	AR AR RI 2.00 N/A AR AR AR RI 2.00	
QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis:	42674 36821 Flag 0248 - SB-6 (38-40') Chloride (Titration) 42674 36821 Flag 0249 - SB-6 (48-50') Chloride (Titration)	Date Analyzed: Sample Preparation RL Result 6680 Analytical Method: Date Analyzed: Sample Preparation RL Result 4660 Analytical Method:	2007-11-02 : Units mg/Kg SM 4500-Cl B 2007-11-02 : Units mg/Kg SM 4500-Cl B	Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method:	N/A AR AR RI 2.00 N/A AR AR RI 2.00 N/A	
QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 14 Analysis: QC Batch:	42674 36821 Flag 0248 - SB-6 (38-40') Chloride (Titration) 42674 36821 Flag 0249 - SB-6 (48-50') Chloride (Titration) 42674	Date Analyzed: Sample Preparation RL Result 6680 Analytical Method: Date Analyzed: Sample Preparation RL Result 4660 Analytical Method: Date Analyzed:	2007-11-02 : Units mg/Kg SM 4500-Cl B 2007-11-02 : Units mg/Kg SM 4500-Cl B 2007-11-02	Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By: Prepared By: Dilution 50 Prep Method: Analyzed By:	N/A AR AR 2.00 N/A AR RI 2.00 N/A AR	

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sample 140249 continued ...

Parameter	Flag	RL Result	Units	Dilution	\mathbf{RL}
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

				MDL				
Parameter		Flag		Result		Units	RL	
DRO				19.4	1	ng/Kg	50	
Surrogata	Flag	Regult	Unite	Dilution	Spike A mount	Percent	Recovery	
n-Triacontane	riag	127	mg/Kg	1	150	85	32.9 - 156.1	

Method Blank (1) QC Batch: 42473

QC Batch: 42473 Prep Batch: 36635		Date An OC Prep	alyzed:	2007-10-26		Ana Pre	lyzed By: nared By:	DC DC
Trop Baten. 00000		40 I Iop	ar anon.	2001 10 20		110	purcu DJ.	50
			1	MDL				
Parameter	Flag		R	esult	Un	its		RL
Benzene			< 0.0	0110	mg	/Kg		0.01
Toluene			< 0.0	0150	m mg/Kg			0.01
Ethylbenzene			< 0.0	0160	mg	/Kg		0.01
Xylene	<u>.</u>		< 0.0	0410	mg	/Kg		0.01
					Spike	Percent	Reco	overy
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Lin	nits
Trifluorotoluene (TFT)		0.694	mg/Kg	ç <u>1</u>	1.00	69	58.2 -	121.3
4-Bromofluorobenzene (4-BFB)		0.456	mg/Kg	ç 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
			MI	DL			
Parameter		Flag	Res	ult	Units		\mathbf{RL}
DRO	. <u> </u>		<1	3.4	mg/Kg		50

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						Spike	Percent	Reco	very
Surrogate	Flag	g Result	Units	Dilı	ution	Amount	Recovery	Lin	nits
n-Triacontane	Э	95.0	mg/Kg		1	150	63	32.9 -	156.1
Method Bla	ank (1)	QC Batch: 42485							
QC Batch: Prep Batch:	$42485 \\ 36635$		Date Analyz QC Prepara	zed: 2 tion: 2	2007-10-26 2007-10-26		A: Pi	nalyzed By: repared By:	DC DC
Parameter		Flag		MD. Bosul	L +	т	Inite		RI.
		r tag		~ 0.73	<u> </u>		g/Kg		1
<u> </u>				<u>\0.15</u>			<u>8/15</u>		
Surrogate		Flag	Result	Units	Dilutic	Spike on Amoun	Perce it Recov	ent Rec ery Lii	overy mits
Trifluorotolue	ene (TFT)		0.714	mg/Kg	1	1.00	71	67.8	- 103
4-Bromofluor	obenzene (4	-BFB)	0.490	mg/Kg	1	1.00	49	24.6	- 123
Method Bla	ank (1)	QC Batch: 42631							
QC Batch:	42631		Date Analyz	zed: ź	2007-11-01		Α	nalyzed By:	AR
Prep Batch:	36787		QC Prepara	tion: f	2007-11-01		P	repared By:	\mathbf{AR}
					-				
D				MD	L		.		DI
Parameter		Flag		Resu		(Jnits		$\underline{-RL}$
Chloride				< 0.50		m	g/Kg		2
Method Bla	ank (1)	QC Batch: 42632							
QC Batch:	42632		Date Analyz	zed:	2007-11-01		Α	nalyzed By:	\mathbf{AR}
Prep Batch:	36790		QC Prepara	tion:	2007-11-01		Р	repared By:	\mathbf{AR}
				MD	L				
Parameter		Flag		Resu	lt	t	Jnits		RL
Chloride				< 0.50	0	m	g/Kg		
Method Bla	ank (1)	QC Batch: 42672							
QC Batch:	42672		Date Analyz	zed:	2007-11-02		А	nalyzed Bv:	\mathbf{AR}
Prep Batch:	36819		QC Prepara	tion:	2007-11-02		Р	repared By:	AR
				MD	L				
Parameter		Flag		Resu	lt	ττ	Jnits		\mathbf{RL}
Chloride				< 0.50	0	m	g/Kg		2

Report Date: November 5, 2007 Work Order: 7102426 Page Number: 15 of 25 Celero-Rock Queen Unit 33 3133 Method Blank (1) QC Batch: 42673 Analyzed By: QC Batch: 42673Date Analyzed: 2007-11-02 ARPrep Batch: 36820 QC Preparation: 2007-11-02 Prepared By: AR MDL Flag Parameter Result Units RL< 0.500Chloride mg/Kg 2 Method Blank (1) QC Batch: 42674 QC Batch: 42674 Date Analyzed: 2007-11-02 Analyzed By: \mathbf{AR} Prep Batch: 36821 QC Preparation: 2007-11-02 Prepared By: AR MDL Parameter Flag Result Units RLChloride < 0.500 mg/Kg 2 Laboratory Control Spike (LCS-1) QC Batch: 42445 Date Analyzed: 2007-10-26 Analyzed By: LD Prep Batch: 36624 Prepared By: QC Preparation: 2007-10-26 LDLCS Spike Matrix Rec. Limit Param Result Units Dil. Amount Result Rec. DRO 230250<13.4 49.1 - 142.3 mg/Kg 1 $\overline{92}$ Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. LCSD Matrix RPD Spike Rec. Param Result Units Dil. Amount Result Rec. Limit RPD Limit DRO 248 mg/Kg 250< 13.499 49.1 - 142.3 8 20 1 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. LCS LCSD Spike LCS LCSD Rec. Surrogate Result Result Units Dil. Amount Limit Rec. Rec. 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 LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Benzene 0.858 mg/Kg 1.00< 0.00110 71.2 - 119 1 86 Toluene 0.904 mg/Kg 1 1.00< 0.0015090 76.3 - 116.5 Ethylbenzene 0.915 mg/Kg 1.00< 0.00160 92 77.6 - 114 1 Xylene 2.78mg/Kg 3.00< 0.00410 78.8 - 113.9 1 93

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

Report Date: November 3133	5, 2007			Work Celero-R	Order: 710 Lock Queen	J2426 Unit :	33			Page Ni	imber:	16 of 25
Param		LCSD Besult	Units	Dil.	Spike Amount	Ma Be	trix sult	Bec.] T	Rec.	RPD	RPD Limit
Benzene		0.817	mg/Kg	<u> </u>	1.00	< 0.0	$\frac{0010}{00110}$	82	71.	2 - 119	5	
Toluene		0.866	mg/Kg	, 1	1.00	<0.0	00150	87	76.3	- 116.5	4	20
Ethylbenzene		0.882	mg/Kg	ý 1	1.00	<0.0	00160	88	77.	6 - 114	4	20
Xylene		2.68	mg/Kg	ç 1	3.00	<0.0	00410	89	78.8	- 113.9	4	20
Percent recovery is based	l on the sp	ike result	. RPD i	s based	on the spik	e and a	spike d	uplica	te resul	t.		
_		LC	S L	CSD			Spil	ke	LCS	LCSD	F	Rec.
Surrogate		Res	ult R	esult	Units	Dil.	Amo	unt	Rec.	Rec.	L	imit
Trifluorotoluene (TFT)		0.6	58 O	.653	mg/Kg	1	1.0	0	66	65	56.1	- 107.8
4-Bromofluorobenzene (4	BFB)	0.6	10 0	.612	mg/Kg		1.0	0	61	61	56.2	- 118.8
Laboratory Control S	pike (LC	8-1)										
QC Batch: 42482			Date	Analyzeo	l: 2007-1	0-29				Anal	yzed By	: LD
Prep Batch: 36666			QC P	reparatio	on: 2007-1	10-29				Prep	ared By	: LD
		L	CS			S	oike	M	atrix		1	Rec.
Param		Rea	sult	Units	Dil.	Am	ount	Re	esult	Rec.	L	imit
DRO		29) 0	mg/Kg	1	2	50	<	13.4	116	49.1	- 142.3
Percent recovery is based Param	i on the sp	ike result LCSD Result	Units	s based - s Dil.	on the spik Spike Amoun	e and M t Re	spike d atrix esult	uplica Rec.	te resul I L	t. Rec. imit	RPD	RPD Limit
DRO		273	mg/K	g 1	250	<	13.4	109	49.1	- 142.3	6	20
Percent recovery is based	d on the sp	ike result	. RPD i	s based	on the spik	e and	spike d	uplica	te resul	t.		
	LCS	LCS	D			S	pike	Ι	\mathcal{L} CS	LCSD		Rec.
	7.5 1.											
Surrogate	Result	Rest	lt	Units	Dil.	Ar	nount	F	lec.	Rec.		Limit
Surrogate n-Triacontane	Result	Rest 10	llt	Units mg/Kg	Dil.	Ar	nount 150	F	lec. 69	Rec. 67	49	Limit - 133.2
Surrogate n-Triacontane Laboratory Control S	Result 104 pike (LCS	Resu 103 5-1)		Units mg/Kg	Dil. 1	Ar	nount 150	F	tec. 69	Rec. 67	49	Limit - 133.2
Surrogate n-Triacontane Laboratory Control S QC Batch: 42485 Prep Batch: 36635	Result 104 pike (LC:	Resu 10 5-1)	Date QC P	Units mg/Kg Analyzeo reparatio	Dil. 1 d: 2007-1 pn: 2007-1	Ar	nount 150	F	Rec. 69	Rec. 67 Anal Prep	49 yzed By ared By	<u>Limit</u> - 133.2 : DC : DC
Surrogate n-Triacontane Laboratory Control S QC Batch: 42485 Prep Batch: 36635	result 104	Rest 10 5-1)	Date QC P CS	Units mg/Kg Analyzed reparatio	Dil. 1 d: 2007-1 pn: 2007-1	Ar	nount 150 Spike	F	Aec. 69 Matrix	Rec. 67 Anal Prep	49 yzed By ared By	<u>Limit</u> - 133.2 : DC : DC Rec.
Surrogate n-Triacontane Laboratory Control S QC Batch: 42485 Prep Batch: 36635 Param	result 104 pike (LC:	Rest 10 5-1) L Re	Date QC P CS sult	Units mg/Kg Analyzeo reparatio Units	Dil. 1 d: 2007-1 on: 2007-1 Dil.	Ar 10-26 10-26 10-26	nount 150 Spike mount	F	Aec. 69 Aatrix Result	Rec. 67 Anal Prep Rec.	49 yzed By ared By	Limit - 133.2 : DC : DC Rec. Limit
Surrogate n-Triacontane Laboratory Control S QC Batch: 42485 Prep Batch: 36635 Param GRO	result 104 pike (LC:	Rest 10 5-1) L Re 7	Date QC P CS sult 94	Units mg/Kg Analyzee reparatio Units mg/Kg	Dil. 1 d: 2007-1 on: 2007-1 Dil. 1	Ar 10-26 10-26 26 4	nount 150 Spike mount 10.0	F	Aec. 69 Aatrix Result <0.739	Rec. 67 Anal Prep Rec. 79	49 yzed By ared By 56	Limit - 133.2 : DC : DC Rec. Limit - 105.2
Surrogate n-Triacontane Laboratory Control S QC Batch: 42485 Prep Batch: 36635 Param GRO Percent recovery is based	result 104 pike (LC: 1 on the sp	Resu 10 S-1) L Re 7 ike result	Date QC P CS sult 94	Units mg/Kg Analyzed reparatio Units mg/Kg s based	Dil. 1 d: 2007-1 on: 2007-1 Dil. 1 on the spik	Ar 10-26 10-26 Ar re and	Spike mount 10.0 spike d	F N I vplica	Aetrix Aetrix Result <0.739 te resul	Rec. 67 Anal Prep Rec. 79	49 yzed By ared By 56	Limit - 133.2 : DC : DC Rec. Limit - 105.2
Surrogate n-Triacontane Laboratory Control S QC Batch: 42485 Prep Batch: 36635 Param GRO Percent recovery is based	result 104 pike (LC:	Rest 10 S-1) L Re 7 ike result LCSD	Date QC P CS sult 94 . RPD i	Units mg/Kg Analyzee reparatio Units mg/Kg s based	Dil. 1 d: 2007-1 on: 2007-1 Dil. 1 on the spik Spike	Ar 10-26 10-26 5 Ar re and 8 M	Spike mount 10.0 spike d fatrix	F	Aetrix Aatrix Result <0.739 te resul	Rec. 67 Anal Prep Rec. 79 It. Rec.	49 yzed By ared By 56	Limit - 133.2 : DC : DC Rec. Limit - 105.2 RPD
Surrogate n-Triacontane Laboratory Control S QC Batch: 42485 Prep Batch: 36635 Param GRO Percent recovery is based Param	Result 104 pike (LC:	Rest 10 S-1) L Re 7 ike result LCSD Result	Date QC P CS sult 94 . RPD i Unit	Units mg/Kg Analyzeo reparatio Units mg/Kg s based s Dil	Dil. 1 d: 2007-1 on: 2007-1 Dil. 1 on the spike . Amour	Ar 10-26 10-26 Ar e and e M nt F	Spike mount 10.0 spike d fatrix tesult	F uplica 	Aetrix Aatrix Aesult CO.739 te result . I	Rec. 67 Anal Prep Rec. 79 It. Rec. Limit	49 yzed By ared By 56 <u>RPD</u>	Limit - 133.2 : DC : DC : DC Rec. Limit - 105.2 RPD Limit
Surrogate n-Triacontane Laboratory Control S QC Batch: 42485 Prep Batch: 36635 Param GRO Percent recovery is based Param GRO	Result 104 pike (LC:	Resu 10 5-1) L Re 7 ike result LCSD Result 7.48	Date QC P CS sult 94 . RPD i Unit mg/F	Units mg/Kg Analyzed reparatio Units mg/Kg s based s Dil Kg 1	Dil. 1 d: 2007-1 Dil. Dil. 1 on the spik Spike . Amoun 10.0	Ar 10-26 10-26 10-26 S Ar re and re and re and re and re and	Spike mount 10.0 spike d fatrix kesult 0.739	N I uplica Rec 75	Aetrix 69 Aetrix Result <0.739 te resul . I 56	Rec. 67 Anal Prep Rec. 79 It. Rec. Limit - 105.2	49 yzed By ared By 56 <u>RPD</u> 6	Limit - 133.2 - 133.2 - DC - DC Rec. Limit - 105.2 RPD Limit 20
Surrogate n-Triacontane Laboratory Control S QC Batch: 42485 Prep Batch: 36635 Param GRO Percent recovery is based Param GRO Percent recovery is based	Result 104 pike (LC: d on the sp	Resu 10 S-1) L Re 7 ike result LCSD Result 7.48 ike result	Date QC P CS sult 94 5. RPD i Unit mg/F 5. RPD i	Units mg/Kg Analyzee reparatio Units mg/Kg s based s Dil Kg 1 is based	Dil. 1 d: 2007-1 on: 2007-1 Dil. 1 on the spike . Amoun 10.0 on the spike	Ar 10-26 10-26 S Ar re and mt F	Spike mount 10.0 spike d fatrix tesult 0.739 spike d	M I uplica Rec 75 uplica	Aetrix 69 Aetrix Result <0.739 te resul . I 56 te resul	Rec. 67 Anal Prep Rec. 79 It. Rec. Limit - 105.2 It.	49 yzed By ared By 56 <u>RPD</u> 6	Limit - 133.2 - 133.2 : DC : DC : DC Limit - 105.2 RPD Limit 20
Surrogate n-Triacontane Laboratory Control S QC Batch: 42485 Prep Batch: 36635 Param GRO Percent recovery is based Param GRO Percent recovery is based	Result 104 pike (LC: d on the sp	Eesu E-1) L Re 7 ike result CSD Result 7.48 ike result LCSD LCSD LCSD LC	Date QC P CS sult 94 . RPD i 	Units mg/Kg Analyzed reparatio Units mg/Kg s based s Dil Kg 1 is based CSD	Dil. 1 d: 2007-1 Dil. Dil. 1 on the spike . Amoun 10.0 on the spike	$\frac{\text{Ar}}{10-26}$ 10-26 10-26 25 Ar	Spike mount 10.0 spike d fatrix tesult 0.739 spike d Spi	M I uplica Rec 75 uplica ke	Aatrix Aatrix Result <0.739 te resul . I 56 te resul LCS	Rec. 67 Anal Prep Rec. 79 It. Cimit - 105.2 It. LCSD	49 yzed By ared By 56 <u>RPD</u> 6	Limit - 133.2 - 133.2 : DC : DC : DC Rec. Limit - 105.2 RPD Limit 20 Rec.
Surrogate n-Triacontane Laboratory Control S QC Batch: 42485 Prep Batch: 36635 Param GRO Percent recovery is based Param GRO Percent recovery is based Surrogate	Result 104 pike (LC: d on the sp	Resu 10 5-1) L Re CSD Result 7.48 ike result 7.48 ike result CRes	Date QC P CS sult 94 . RPD i Unit mg/F . RPD i S L ult R	Units mg/Kg Analyzed reparatio Units mg/Kg s based s based (CSD .esult	Dil. 1 d: 2007-1 Dn: 2007-1 Dil. 1 on the spik Spike Amoun 10.0 on the spik Units	$\frac{\text{Ar}}{10-26}$ 10-26 10-26 2 Ar e and the	Spike mount 10.0 spike d fatrix tesult 0.739 spike d Spi spike d Spi	N I uplica Rec 75 uplica ke vunt	Aatrix Aatrix Result <0.739 te resul . I 56 te resul LCS Rec.	Rec. 67 Anal Prep Rec. 79 It. Rec. Limit - 105.2 It. LCSD Rec.	49 yzed By ared By 56 <u>RPD</u> 6	Limit - 133.2 - 133.2 - 133.2 - DC - DC Rec. Limit - 105.2 RPD Limit - 20 Rec.

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	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	\mathbf{Result}	Units	Dil.	Amount	Rec.	Rec.	Limit
4-Bromofluorobenzene (4-BFB)	0.714	0.697	mg/Kg	1	1.00	71	70	67.2 - 119.2

Laboratory Control Spike (LCS-1)

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

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{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.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	Limit	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.

Laboratory Control Spike (LCS-1)

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

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	95.8	mg/Kg	1	100	< 0.500	96	85 - 115

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	96.7	mg/Kg	1	100	< 0.500	97	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:	$42672 \\ 36819$	Date Analyzed:	2007-11-02	Analyzed By:	AR
Prep Batch:		QC Preparation	2007-11-02	Prepared By:	AR

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	99.2	mg/Kg	1	100	< 0.500	99	85 - 115
Percent recovery is based	l on the spike result. RPD	is based on	the spike	and spike dupl	icate result.		

LCSD RPD Spike Matrix Rec. Param Dil. Result Units Amount Result Rec. Limit RPD Limit Chloride 100 mg/Kg 100 < 0.500 1 100 85 - 115 1 20

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

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Page Number: 18 of 25

Laboratory Control Spike (LCS-1)

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	QC Batch: 42673 Prep Batch: 36820		Da QC	te Analyzed: Preparation:	2007-11-0 2007-11-0)2)2		Anal; Prepa	yzed By ared By	y: AR /: AR	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Param		LCS Result	Units	Dil.	Spike Amount	Matri Resu	ix lt Rec		Rec. Limit	
Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.LCSDSpikeMatrixRec.RPDChloride99.85.1151Chloride99.85.1151Chloride99.85.1151Colspan="6">Colspan="6">RPDLossSpikeMatrixRec.RPDLaboratory Control Spike (LCS-1)QC Batch:42674Date Analyzed:2007-11-02Analyzed By: ARPrepared By:Analyzed By: Colspan="6">Analyzed By: ARPrepared By:Analyzed By: Colspan="6">Analyzed By: Colspan="6">Colspan="6">Analyzed By: Colspan="6">Colspan="6">Colspan="6">Analyzed By: Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6"	Chloride		98.3	mg/Kg	1	100	< 0.50	00 98		85 - 115	
ParamLCSD ResultSpike UnitsMatrix NetworkRec. ResultRPD LimitChloride99.2 mg/Kg 1100<0.500	Percent recovery is bas	ed on the spike r	esult. RP	D is based on	the spike a	nd spike du	plicate res	ult.			
DescriptionRec.LCSSpikeMatrixRec.LCSSpikeMatrixRec.LCSSpikeMatrixRec.LCSSpikeMatrixRec.ResultUnitsDiAmountResultRec.ImitClospikeAddition of the spike and spikeMatrixRec.ResultUnitsDiMatrixRec.RPILimitClospikeMatrixRec.RPILCSSpikeMatrixRec.ResultUnitsDiCloside <td co<="" td=""><td></td><td>Ţ</td><td>ann</td><td></td><td>0</td><td></td><td></td><td>Dec</td><td></td><td>מחת</td></td>	<td></td> <td>Ţ</td> <td>ann</td> <td></td> <td>0</td> <td></td> <td></td> <td>Dec</td> <td></td> <td>מחת</td>		Ţ	ann		0			Dec		מחת
International (ChlorideData (Sp. 2)Data (Sp. 2)Annound (ResultResultInternational (ChlorideData 	Param	EC Be	Jou Joult I	Inite Dil	Amount	Regult	Rec	nec. Limit	RPD	Limit	
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 Date Analyzed: 2007-11-02 Analyzed By: AR Prep Batch: 36821 QC Preparation: 2007-11-02 Prepared By: AR Param Result Units Dil. Amount Result Rec. Limit Chloride 101 mg/Kg 1 100 <0.500	Chloride	9	9.2 m	g/Kg 1	100	< 0.500	99	85 - 115	1	20	
Laboratory Control Spike (LCS-1) QC Batch: 42674 Prep Batch: Date Analyzed: 2007-11-02 Analyzed By: AR Prep Batch: 36821 QC Preparation: 2007-11-02 Prepared By: AR Param Result Units Dil. Amount Result Res. Limit Chloride 101 mg/Kg 1 100 <0.500	Percent recovery is bas	ed on the spike r	esult. RP	D is based on	the spike a	nd spike du	plicate res	ult.			
QC Batch:42674 QC Prepatation:Date Analyzed:2007-11-02 QC Preparation:Analyzed By:AR Prepared By:AR Prepared By:AR Prepared By:ARParamResultUnitsDilAmountResultRec.LimitChloride101mg/Kg1100<0.500	Laboratory Control	Spike (LCS-1)									
QC Batch:1601Date Analysed:2007-11-02Prepared By:ARPrep Batch:36821QC Preparation:2007-11-02Prepared By:ARQC Preparation: $2007-11-02$ Prepared By:ARParamResultUnitsDil.AmountResultRec.Chloride101mg/Kg1 100 <0.500	OC Batch: 42674		Da	te Analyzed:	2007-11-0	19		Anal	wzed By	v· ∆R	
LCSSpikeMatrixRec.ParamResultUnitsDil.AmountResultRec.Chloride101mg/Kg1100<0.500	Prep Batch: 36821		QC	Preparation:	2007-11-0)2		Prep	ared By	v: AR	
LCSSpike ResultMatrix NetworkRec. LimitChloride101mg/Kg1100<0.500	1.0p		- Q -			-		1 top			
ParamResultUnitsDil.AmountResultRec.LimitChloride101mg/Kg1100<0.500			ICS			Spiko	Motr	iv.		Bog	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Param		Result	Units	Dil	Amount	Resu	lt Rec		Limit	
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.Percent recovery is based on the spike resultLCSD ResultSpike UnitsMatrix Dil.Rec. Amount ResultRec. ResultRPD LimitRPD LimitParamResultUnitsDil.Amount ResultResultRec. RPDIimitRPD LimitChloride102mg/Kg1100<0.500	Chloride		101	mg/Kg	1	100	<0.50	$\frac{10}{00}$ 101	 [85 - 115	
LCSDSpike ResultMatrix AmountRec.RPI RPI 	Percent recovery is bas	ed on the spike r	esult. RP	D is based on	the spike a	nd spike dı	plicate res	ult.			
LCSDSpikeMatrixRec.RPLParamResultUnitsDil.AmountResultRec.LimitRPDLimitChloride102mg/Kg1100<0.500					~		-r				
ParamResultOfficsDiff.AmountResultRef.LimitRPDJimitChloride102mg/Kg1100<0.500	Denam	LO	USD	Inita Dil	Spike	Matrix	Dee	Rec.	ממס	RPD	
Mights Product Mights Product Model	Chloride		$\frac{102}{102}$ m	a/Kar 1	100 Amount	$-\frac{\text{Result}}{<0.500}$		<u>Limit</u> 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: 140213QC Batch:42445Date Analyzed:2007-10-26Analyzed By:LDPrep Batch:36624QC Preparation:2007-10-26Prepared By:LDMSSpikeMatrixRec.LimitDRO292mg/Kg1250<13.411730.2 - 201.Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.ParamResultUnitsDil.AmountRec.RPIParamResultUnitsDil.AmountRec.RPIDRO278mg/Kg1250<13.411130.2 - 201.4520Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.ResultRPILimitDRO278mg/Kg1250<13.411130.2 - 201.4520Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.MSDRec.ResultRec.Ref.SurrogateMSMSDSpikeMSMSDRec.Limitn-Triacontane154137mg/Kg11501039110 - 19	Demonte vogovoru in hos	ad on the spiles	agult DD	$\frac{6}{16}$	the endles a	nd aniles de			1		
Matrix Spike (MS-1)Spiked Sample: 140213QC Batch:42445Date Analyzed:2007-10-26Analyzed By:LDPrep Batch:36624QC Preparation:2007-10-26Prepared By:LDMSSpikeMatrixRec.LimitDRO292mg/Kg1250<13.4	recent recovery is bas	eu on the spike i	Courte. Iti	D is based off	uie spike a	na spike at	ipiicate res	uit.			
QC Batch:42445 Prep Batch:Date Analyzed: $2007-10-26$ Analyzed By:LD Prepared By:LDMS DROQC Preparation: $2007-10-26$ Matrix 	Matrix Spike (MS-1	.) Spiked Sam	ple: 14021	3							
Prep Batch:36624QC Preparation:2007-10-26Prepared By:LDMSSpikeMatrixRec.LimitDRO292mg/Kg1250<13.4	OC Batch: 42445		Da	te Analyzed:	2007-10-2	26		Anal	vzed B	v: LD	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Prep Batch: 36624		QC	Preparation:	2007-10-2	26		Prep	ared B	y: LD	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	•		•	•				1		5	
ParamResultUnitsDil.AmountResultRec.LimitDRO292mg/Kg1250<13.4			MS			Snike	Matrix			Rec	
DRO292mg/Kg1250<13.411730.2 - 201.Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.Rec.RPIParamResultUnitsDil.AmountResultRec.RPIDRO278mg/Kg1250<13.4	Param		Result	Units	Dil.	Amount	Result	Rec.]	Limit	
MSD Spike Matrix Rec. RPI Param Result Units Dil. Amount Result Rec. RPI DRO 278 mg/Kg 1 250 <13.4	DRO		292	mg/Kg	1	250	<13.4	117	30.2	2 - 201.4	
MSDSpike AmountMatrix ResultRec.RPI LimitParamResult UnitsUnitsDil.AmountResult ResultRec.Limit RPDRPDLimit DimitDRO278 278 mg/Kg1250<13.4	Percent recovery is bas	ed on the spike r	esult. RP	D is based on	the spike a	nd spike du	plicate res	ult.			
MSDSpikeMatrixRec.RPLParamResultUnitsDil.AmountResultRec.LimitRPDLimitDRO278mg/Kg1250<13.4	-	-	TD.		0	N	-	D		DDD	
Interaction Rectar Condition Drive Present Rectar Condition Result Rectar Condition Result Rectar Condition Result Rectar Condition Rectar Conditin Rectar Condition Rectar	Param	Ni Re	SD sult Dr	nits Dil	Amount	Matrix Result	Rec	Rec. Limit	BDD	RPD Limit	
MS MSD Spike MS MSD Rec. Surrogate Result Result Units Dil. Amount Rec. Limit n-Triacontane 154 137 mg/Kg 1 150 103 91 10 - 19	DRO	2	78 mg	$\frac{103}{/\text{Kg}}$ 1	250	<13.4	111 30	$\frac{1}{2} - 201.4$	5	20	
MS MSD Spike MS MSD Rec. Surrogate Result Result Units Dil. Amount Rec. Rec. Limit n-Triacontane 154 137 mg/Kg 1 150 103 91 10 - 19	Percent recovery is has	ed on the spike r	esult BP	<u>,8 -</u> D is based on	the spike a	nd snike di	unlicate res	ult			
MSMSDSpikeMSMSDRec.SurrogateResultResultUnitsDil.AmountRec.Rec.Limitn-Triacontane154137mg/Kg11501039110 - 19	I citerio recovery is but	ica on one spine i	courte. rer		one opine a	na spike at	ipileate res	uio.			
SurrogateResultUnitsDil.AmountRec.Rec.Limitn-Triacontane154137mg/Kg11501039110 - 19	a .	MS	MSD	TT 1.	T . 1	Spike	MS	MSE)	Rec.	
n-macontane 154 157 mg/Ng 1 150 103 91 10-19	Surrogate	Kesult	Kesult	Units		Amount	Rec.	Rec.		Limit	
	n-iriacontane	104	131	mg/Kg	1	150	103	91		10 - 194	

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Matrix Spike (MS-1) Spiked Sample: 140179

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

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	\mathbf{Result}	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
Xvlene	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.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	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.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	\mathbf{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	Date Analyzed:	2007-10-29	Analyzed By:	LD
Prep Batch:	36666	QC Preparation:	2007-10-29	Prepared By:	LD

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	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.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	Limit	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.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	\mathbf{Units}	Dil.	Amount	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	Date Analyzed:	2007-10-26	Analyzed By:	DC
Prep Batch:	36635	QC Preparation:	2007-10-26	Prepared By:	DC

	MS				S	pike	Mat	rix	_		Rec.
Param	Resu	lt	Units	Dil.	An	nount	Res	ult	Rec.		Limit_
GRO	7.20) <u> </u>	ng/Kg	1	1	10.0	<0.7	739	72	10	- 102.2
Percent recovery is based on the s	pike result.	RPD is	based on	the spike	and s	spike du	plicate i	result.			
	MSD			Spike	М	atrix		Rec.			RPD
Param	Result	Units	Dil.	Amount	\mathbf{R}	esult	Rec.	Limi	t	RPD	Limit
GRO	6.74	mg/Kg	1	10.0	<	0.739	67	10 - 10	2.2	7	20
Percent recovery is based on the s	pike result.	RPD is	based on	the spike	and s	spike du	plicate i	result.			
	MS	М	SD			Spi	ike	MS	MSD		Rec.
Surrogate	Resu	lt Re	sult	Units	Dil.	Amo	ount	Rec.	Rec.]	Limit
Trifluorotoluene (TFT)	0.53	7 0.	538 n	ng/Kg	1		- <u>-</u>	54	54	47.	2 - 84.
4-Bromofluorobenzene (4-BFB)	0.846	6 0.3	830 n	ng/Kg	1	1		85	83	58	- 162.6
Mathein Calles (MCC 1) Calles	Complex 14	0.016									
Matrix Spike (MS-1) Spiked	i Sample: 14	10210									
QC Batch: 42631		Date A	nalyzed:	2007-11	-01				Anal	yzed By	: AR
Prep Batch: 36787		QC Pre	paration:	2007-11	-01				Prep	ared By	: AR
	MS	5			()	Spike	Ma	atrix			Rec.
Param	Resu	ılt	Units	Dil.	A	mount	Re	sult	Rec		Limit
Chloride	1290	00	mg/Kg	50		5000	814	4.33	95	8	35 - 11
Percent recovery is based on the s	pike result.	RPD is	based on	the spike	and s	spike du	plicate	result.			
	MSD			Spike	P	Matrix		Rec	с.		RPE
Param	Result	Units	Dil.	Amoun	t 1	Result	Rec.	Lim	it	RPD	Limi
Chloride	12900	mg/Kg	<u>5</u> 50	5000	8	144.33	95	85 - 1	115	0	20
Percent recovery is based on the s	pike result.	RPD is	based on	the spike	and s	spike du	plicate	result.			
Motnin Spiles (MS 1) Spiles	Complex 14	10226									
Matrix Spike (MS-1) Spiked	i Sample: 14	10220									
QC Batch: 42632		Date A	nalyzed:	2007-11	-01				Anal	yzed By	: AR
Prep Batch: 36790		QC Pre	paration:	2007-11	-01				Prep	ared By	: AR
									•		
	MS	5			1	Spike	Ma	atrix			Rec.
Param	Rest	ılt	Units	Dil.	A	mount	Re	esult	Rec		Limit
Chloride	549	0	mg/Kg	50		5000	132	20.93	83		35 - 11
Percent recovery is based on the s	pike result.	RPD is	based on	the spike	and s	spike du	plicate	result.			
	MSD			Spike	I	Matrix		Rec	с.		RPI
Param	Result	Units	Dil.	Amoun	t l	Result	Rec.	Lim	it	RPD	Limi

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

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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.

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Matrix Spike (MS-1	.) Spiked Sample: 14	40236							
OC Batch: 42672		Date Ana	alvzed	2007-11-0	2		A	alvzed B	iv: AB
Prep Batch: 36819		QC Prep	aration:	2007-11-0	2		Pi	epared B	v: AF
F		F					_		J
	М	S			Spike	Ma	trix		Rec.
Param	Res	ult U	Units	Dil.	Amount	Res	sult I	Rec.	Limit
Chloride	488	80 m	ng/Kg	50	5000	<2	5.0	98	85 - 11
Percent recovery is bas	ed on the spike result.	RPD is b	ased on t	the spike ar	d spike dup	olicate r	esult.		
	MSD			Spike	Matrix		Rec.		RP
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Lim
Chloride	4930	mg/Kg	50	5000	<25.0	99	85 - 115	1	20
Percent recovery is bas	ed on the spike result.	RPD is b	ased on t	the spike ar	ıd spike dup	olicate r	esult.		
Matrix Spike (MS-1	.) Spiked Sample: 1	40246							
OC Batch: 49673		Data Ang	lyzad	2007 11 0	0		٨	alvzad B	α. Δ1
Pren Batch: 36820		OC Pren	aration.	2007-11-0	2		P ₁	renared B	γ. <u>Α</u> ΄ ν· Δ΄
riep Daten. 00020		QC 110p	aration.	2001 11 0			1.	opured D	<i>y.</i> 11
	М	S			Spike	Ma	trix		Rec.
Param	M Res	S ult	Units	Dil.	Spike Amount	Ma Res	trix sult	Rec.	Rec. Limi
Param Chloride	M Res 124	S ult U	Units 1g/Kg	Dil. 50	Spike Amount 5000	Ma Res 777	trix sult 7.24	Rec. 92	Rec. Limi 85 - 1
Param Chloride Percent recovery is bas	M Res 124 sed on the spike result.	S ult U 00 m RPD is b	Units ng/Kg ased on 1	Dil. 50 the spike ar	Spike Amount 5000 id spike dup	Ma Res 777 olicate r	trix sult 7.24 esult.	Rec. 92	Rec. Limi 85 - 1
Param Chloride Percent recovery is bas	M Res 124 sed on the spike result. MSD	S ult U 00 m RPD is b	Units ng/Kg ased on 1	Dil. 50 the spike ar Spike	Spike Amount 5000 ad spike dup Matrix	Ma Res 777 olicate r	trix sult 7.24 esult. Rec.	Rec. 92	Rec. Limi 85 - 1
Param Chloride Percent recovery is bas Param	M Res 124 sed on the spike result. MSD Result	S <u>ult U</u> 00 m RPD is b Units	Units ig/Kg ased on t Dil.	Dil. 50 the spike ar Spike Amount	Spike Amount 5000 ad spike dup Matrix Result	Ma Res 777 plicate r Rec.	trix sult 7.24 esult. Rec. Limit	Rec. 92 RPD	Rec. Limi 85 - 1 RP Lim
Param Chloride Percent recovery is bas Param Chloride	M Res 124 sed on the spike result. MSD Result 12400	S ult U RPD is b Units mg/Kg	Units ng/Kg ased on Dil. 50	Dil. 50 the spike ar Spike Amount 5000	Spike Amount 5000 ad spike dup Matrix Result 7777.24	Ma Res 777 Dicate r Rec. 92	trix sult 7.24 esult. Rec. Limit 85 - 115	Rec. 92 RPD 0	Rec. Limi 85 - 1 RP Lim 20
Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1	M Res 124 sed on the spike result. MSD Result 12400 sed on the spike result.	S ult U RPD is b Units mg/Kg RPD is b 40530	Units ag/Kg ased on Dil. 50 ased on	Dil. 50 the spike ar Spike Amount 5000 the spike ar	Spike Amount 5000 ad spike dup Matrix Result 7777.24 ad spike dup	Ma Res 777 Dilicate r <u>Rec.</u> 92 Dilicate r	trix sult 7.24 esult. Rec. Limit 85 - 115 esult.	Rec. 92 RPD 0	Rec. Limi 85 - 1 RP Lim 20
Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 42674	M Res 124 sed on the spike result. MSD Result 12400 sed on the spike result.	S ult U 00 m RPD is b Units mg/Kg RPD is b 40530 Date Ans	Units ng/Kg ased on Dil. 50 ased on	Dil. 50 the spike ar Spike Amount 5000 the spike ar	Spike Amount 5000 ad spike dup Matrix Result 7777.24 ad spike dup	Ma Res 777 Dilicate r <u>Rec.</u> 92 Dilicate r	trix sult 7.24 esult. Rec. Limit 85 - 115 esult.	Rec. 92 RPD 0	Rec. Limi 85 - 1 RP Lim 20
Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 42674 Prep Batch: 36821	M Res 124 sed on the spike result. MSD Result 12400 sed on the spike result.	S ult U RPD is b Units mg/Kg RPD is b 40530 Date Ana QC Prep	Units ng/Kg ased on Dil. 50 ased on alyzed: aration:	Dil. 50 the spike ar Spike Amount 5000 the spike ar 2007-11-0 2007-11-0	Spike Amount 5000 ad spike dup Matrix Result 7777.24 ad spike dup	Ma Res 777 Dilicate r <u>Rec.</u> 92 Dilicate r	trix sult 7.24 esult. Rec. Limit 85 - 115 esult. A	Rec. 92 RPD 0 nalyzed E	Rec. Limi 85 - 1 RP Lim 20 By: A
Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 42674 Prep Batch: 36821	M Res 124 sed on the spike result. MSD Result 12400 sed on the spike result.	S ult U RPD is b Units mg/Kg RPD is b 40530 Date Ana QC Prep	Units ng/Kg ased on Dil. 50 ased on alyzed: aration:	Dil. 50 the spike ar Spike Amount 5000 the spike ar 2007-11-0 2007-11-0	Spike Amount 5000 ad spike dup Matrix Result 7777.24 ad spike dup	Ma Res 777 Dilicate r <u>Rec.</u> 92 Dilicate r	trix sult 7.24 esult. Rec. Limit 85 - 115 esult. A Pr	Rec. 92 RPD 0	Rec. Limi 85 - 1 RP Lim 20 8y: A 3y: A
Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 42674 Prep Batch: 36821	M Res 124 sed on the spike result. MSD Result 12400 sed on the spike result. .) Spiked Sample: 1	S ult U 00 m RPD is b Units mg/Kg RPD is b 40530 Date Ana QC Prep S	Units ag/Kg ased on Dil. 50 ased on alyzed: aration:	Dil. 50 the spike ar Spike Amount 5000 the spike ar 2007-11-0 2007-11-0	Spike Amount 5000 ad spike dup Matrix Result 7777.24 ad spike dup 22 22 23 24 29 29	Ma Res 777 Dilicate r <u>Rec.</u> 92 Dilicate r Ma	trix sult 7.24 esult. Rec. Limit 85 - 115 esult. A Production	Rec. 92 RPD 0	Rec. Limi 85 - 1 RP Lim 20 By: Al y: Al Rec.
Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 42674 Prep Batch: 36821 Param	M Res 124 sed on the spike result. MSD Result 12400 sed on the spike result. .) Spiked Sample: 1 M Res	S ult U 00 m RPD is b Units mg/Kg RPD is b 40530 Date Ana QC Prep S ult U	Units ag/Kg ased on Dil. 50 ased on alyzed: aration: Units	Dil. 50 the spike ar Spike Amount 5000 the spike ar 2007-11-0 2007-11-0 Dil.	Spike Amount 5000 ad spike dup Matrix Result 7777.24 ad spike dup 2 2 2 2 2 2 2 2 2	Ma Res 777 Dilicate r <u>Rec.</u> 92 Dilicate r Ma Res	trix sult 7.24 esult. Rec. Limit 85 - 115 esult. A Pr trix sult	Rec. 92 RPD 0 nalyzed E repared B Rec.	Rec. Limi 85 - 1 RP Lim 20 By: Al by: Al cy: Al cy: Al cy: Al
Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 42674 Prep Batch: 36821 Param Chloride	M Res 124 sed on the spike result. MSD Result 12400 sed on the spike result. .) Spiked Sample: 1 M Res 815	S ult U RPD is b Units mg/Kg RPD is b 40530 Date Ana QC Prep S ult U 50 m	Units ased on Dil. 50 ased on alyzed: aration: Units g/Kg	Dil. 50 the spike ar Spike Amount 5000 the spike ar 2007-11-0 2007-11-0 Dil. 50	Spike Amount 5000 ad spike dup Matrix Result 7777.24 ad spike dup 2 2 2 2 2 2 2 3 5 5 000	Ma Res 777 Dilicate r 92 Dilicate r Ma Res 333	trix sult 7.24 esult. Rec. Limit 85 - 115 esult. A Production Sult 1.78	Rec. 92 RPD 0 nalyzed E repared B Rec. 96	Rec. Limi 85 - 1 RP Lim 20 By: Al by: Al by: Al control Rec. Limi 85 - 1
Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 42674 Prep Batch: 36821 Param Chloride Percent recovery is bas	M Res 124 sed on the spike result. MSD Result 12400 sed on the spike result. .) Spiked Sample: 1 M Res 816 sed on the spike result.	S ult U 00 m RPD is b Units mg/Kg RPD is b 40530 Date Ana QC Prep S ult U RPD is b	Units g/Kg ased on Dil. 50 ased on alyzed: aration: Units g/Kg ased on	Dil. 50 the spike ar Spike Amount 5000 the spike ar 2007-11-0 2007-11-0 Dil. 50 the spike ar	Spike Amount 5000 ad spike dup Matrix Result 7777.24 ad spike dup 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Ma Res 777 Dilicate r 92 Dilicate r Ma Res 333 Dilicate r	trix sult 7.24 esult. Rec. Limit 85 - 115 esult. A Pr trix sult 1.78 esult.	Rec. 92 RPD 0 nalyzed E repared B Rec. 96	Rec. Limi 85 - 1 RP Lim 20 By: A by: A by
Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 42674 Prep Batch: 36821 Param Chloride Percent recovery is bas	M Res 124 sed on the spike result. MSD Result 12400 sed on the spike result. () Spiked Sample: 1 MR M Res 815 sed on the spike result. MSD	S ult U 00 m RPD is b Units mg/Kg RPD is b 40530 Date Ana QC Prep S ult U 50 m RPD is b	Units g/Kg ased on Dil. 50 ased on alyzed: aration: Units g/Kg ased on	Dil. 50 the spike ar Spike Amount 5000 the spike ar 2007-11-0 2007-11-0 Dil. 50 the spike ar Spike	Spike Amount 5000 ad spike dup Matrix Result 7777.24 ad spike dup 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Ma Res 777 Dilicate r <u>Rec.</u> 92 Dilicate r Ma Res 333 Dilicate r	trix sult 7.24 esult. Rec. Limit 85 - 115 esult. A Pr trix sult 1.78 esult. Rec.	Rec. 92 RPD 0 nalyzed E repared B Rec. 96	Rec. Limi 85 - 1 RP Lim 20 By: Al Sy: Al Sy: Al Rec. Limi 85 - 1 RP
Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 42674 Prep Batch: 36821 Param Chloride Percent recovery is bas Param	M Res 124 sed on the spike result. MSD Result 12400 sed on the spike result. () Spiked Sample: 1 MR Res 818 sed on the spike result. MSD Result	S ult U 00 m RPD is b Units mg/Kg RPD is b 40530 Date Ana QC Prep S ult U 50 m RPD is b Units	Units g/Kg ased on Dil. 50 ased on alyzed: aration: Units g/Kg ased on Dil.	Dil. 50 the spike ar Spike Amount 5000 the spike ar 2007-11-0 2007-11-0 Dil. 50 the spike ar Spike Amount	Spike Amount 5000 ad spike dup Matrix Result 7777.24 ad spike dup 22 22 23 24 25 26 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Ma Res 777 Dilicate r <u>Rec.</u> 92 Dilicate r Ma Res 333 Dilicate r Rec.	trix sult 7.24 esult. Rec. Limit 85 - 115 esult. A Pr trix sult 1.78 esult. Rec. Limit	Rec. 92 RPD 0 nalyzed E repared B Rec. 96 RPD	Rec. Limi 85 - 1 RP Lim 20 By: Al by: Al y: Al rec. Limi 85 - 1 RP Lim

QC Batch: 42445

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Date Analyzed: 2007-10-26

Analyzed By: LD

Report Date: 3133	: November	5, 2007	W Celer	Vork Order: 710 ro-Rock Queen	2426 Unit 33	Page Nu	1111 112 112 112 112 112 112 112 112 11
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	222	89	85 - 115	2007-10-26
Standard (O	CCV-1)						
QC Batch:	42445		Date Anal	yzed: 2007-10-	-26	Anal	yzed By: LD
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	243	97	85 - 115	2007-10-26
Standard (I	CV-1)						
QC Batch:	42473		Date Analy	yzed: 2007-10-	-26	Anal	yzed By: DC
			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	g Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0855	86	85 - 115	2007-10-2
Toluene		mg/Kg	0.100	0.0882	88	85 - 115	2007-10-2
Ethylbenzene	9	$\mathrm{mg/Kg}$	0.100	0.0906	91	85 - 115	2007-10-2
Xylene		mg/Kg	0.300	0.276	92	85 - 115	2007-10-2
Standard (C	CCV-1)						
QC Batch:	42473		Date Analy	yzed: 2007-10-	-26	Anal	yzed By: DC
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	g Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0874	87	85 - 115	2007-10-2
Toluene		mg/Kg	0.100	0.0899	90	85 - 115	2007-10-2
Ethylbenzene	2	mg/Kg	0.100	0.0904	90	85 - 115	2007-10-2
Xylene		mg/Kg	0.300	0.276	92	85 - 115	2007-10-2
Standard (I	CV-1)						
QC Batch:	42482		Date Anal	yzed: 2007-10	-29	Anal	yzed By: LD
			ICVs True	ICVs Found	ICVs Percent	Percent Recoverv	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	270	108	85 - 115	2007-10-2
Standard (C	CCV-1)						
QC Batch:	42482		Date Anal	yzed: 2007-10	-29	Ana	lyzed By: LE

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·		5, 2007	Cele	Work Order: 71 ero-Rock Queen	02426 1 Unit 33	Page N	1mber: 23 of 25
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	237	95	85 - 115	2007-10-29
Standard	(ICV-1)						
QC Batch:	42485		Date Ana	lyzed: 2007-10)-26	Anal	yzed By: DC
			ICVe	ICVa	ICVa	Porcont	
			True	Found	Porcont	Bocovory	Date
Param	Flag	Units	Conc	Conc	Recovery	Limits	Analyzed
GRO	Гад	mg/Kg	1 00	0.986	<u> </u>	85 - 115	2007-10-26
	· · ·		1.00	0.000			2007 10 20
Standard	(CCV-1)						
QC Batch:	42485		Date Ana	lyzed: 2007-10)-26	Anal	yzed By: DC
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.09	109	85 - 115	2007-10-26
Standard	(ICV-1)						
Standard QC Batch:	(ICV-1) 42631		Date Ana	lyzed: 2007-1	1-01	Anal	yzed By: AR
Standard QC Batch:	(ICV-1) 42631		Date Ana ICVs	lyzed: 2007-11 ICVs	1-01 ICVs	Anal Percent	yzed By: AR
Standard QC Batch:	(ICV-1) 42631		Date Ana ICVs True	lyzed: 2007-11 ICVs Found	1-01 ICVs Percent	Anal Percent Recovery	yzed By: AR Date
Standard QC Batch: Param	(ICV-1) 42631 Flag	Units	Date Ana ICVs True Conc.	lyzed: 2007-11 ICVs Found Conc.	I-01 ICVs Percent Recovery	Anal Percent Recovery Limits	yzed By: AR Date Analyzed
Standard QC Batch: Param Chloride	(ICV-1) 42631 Flag	Units mg/Kg	Date Ana ICVs True Conc. 100	lyzed: 2007-11 ICVs Found Conc. 96.9	I-01 ICVs Percent Recovery 97	Anal Percent Recovery Limits 85 - 115	yzed By: AR Date Analyzed 2007-11-01
Standard QC Batch: Param Chloride Standard	(ICV-1) 42631 Flag (CCV-1)	Units mg/Kg	Date Ana ICVs True Conc. 100	lyzed: 2007-11 ICVs Found Conc 96.9	I-01 ICVs Percent Recovery 97	Anal Percent Recovery Limits 85 - 115	yzed By: AR Date Analyzed 2007-11-01
Standard QC Batch: Param Chloride Standard QC Batch:	(ICV-1) 42631 Flag (CCV-1) 42631	Units mg/Kg	Date Ana ICVs True Conc. 100 Date Ana	lyzed: 2007-11 ICVs Found Conc. 96.9	I-01 ICVs Percent Recovery 97	Anal Percent Recovery Limits 85 - 115 Anal	yzed By: AR Date <u>Analyzed</u> 2007-11-01 yzed By: AR
Standard QC Batch: Param Chloride Standard QC Batch:	(ICV-1) 42631 Flag (CCV-1) 42631	Units mg/Kg	Date Ana ICVs True Conc. 100 Date Ana CCVs	lyzed: 2007-11 ICVs Found Conc. 96.9 lyzed: 2007-11 CCVs	I-01 ICVs Percent Recovery 97	Anal Percent Recovery Limits 85 - 115 Anal Percent	yzed By: AR Date Analyzed 2007-11-01 yzed By: AR
Standard QC Batch: Param Chloride Standard QC Batch:	(ICV-1) 42631 Flag (CCV-1) 42631	Units mg/Kg	Date Ana ICVs True Conc. 100 Date Ana CCVs True	lyzed: 2007-11 ICVs Found Conc. 96.9 lyzed: 2007-11 CCVs Found	I-01 ICVs Percent Recovery 97 I-01 CCVs Percent	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery	yzed By: AR Date Analyzed 2007-11-01 yzed By: AR Date
Standard QC Batch: Param Chloride Standard QC Batch: Param	(ICV-1) 42631 Flag (CCV-1) 42631 Flag	Units mg/Kg Units	Date Ana ICVs True Conc. 100 Date Ana CCVs True Conc.	lyzed: 2007-11 ICVs Found Conc. 96.9 lyzed: 2007-11 CCVs Found Conc.	I-01 ICVs Percent Recovery 97 I-01 CCVs Percent Recovery	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits	yzed By: AR Date <u>Analyzed</u> 2007-11-01 yzed By: AR Date Analyzed
Standard QC Batch: Param Chloride Standard QC Batch: Param Chloride	(ICV-1) 42631 Flag (CCV-1) 42631 Flag	Units mg/Kg Units mg/Kg	Date Ana ICVs True Conc. 100 Date Ana CCVs True Conc. 100	lyzed: 2007-1 ICVs Found Conc. 96.9 lyzed: 2007-1 CCVs Found Conc. 103	I-01 ICVs Percent Recovery 97 I-01 CCVs Percent Recovery 103	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115	yzed By: AR Date Analyzed 2007-11-01 yzed By: AR Date Analyzed 2007-11-01
Standard QC Batch: Param Chloride Standard QC Batch: Param Chloride Standard	(ICV-1) 42631 Flag (CCV-1) 42631 Flag (ICV-1)	Units mg/Kg Units mg/Kg	Date Ana ICVs True Conc. 100 Date Ana CCVs True Conc. 100	lyzed: 2007-11 ICVs Found Conc. 96.9 lyzed: 2007-11 CCVs Found Conc. 103	I-01 ICVs Percent Recovery 97 I-01 CCVs Percent Recovery 103	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115	yzed By: AR Date Analyzed 2007-11-01 yzed By: AR Date Analyzed 2007-11-01
Standard QC Batch: Param Chloride Standard QC Batch: Param Chloride Standard QC Batch:	(ICV-1) 42631 Flag (CCV-1) 42631 Flag (ICV-1) 42632	Units mg/Kg Units mg/Kg	Date Ana ICVs True Conc. 100 Date Ana CCVs True Conc. 100 Date Ana	lyzed: 2007-11 ICVs Found Conc. 96.9 lyzed: 2007-11 CCVs Found Conc. 103	I-01 ICVs Percent Recovery 97 I-01 CCVs Percent Recovery 103	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal	yzed By: AR Date Analyzed 2007-11-01 yzed By: AR Date Analyzed 2007-11-01 yzed By: AR
Standard QC Batch: Param Chloride Standard QC Batch: Param Chloride Standard QC Batch:	(ICV-1) 42631 Flag (CCV-1) 42631 Flag (ICV-1) 42632	Units mg/Kg Units mg/Kg	Date Ana ICVs True Conc. 100 Date Ana CCVs True Conc. 100 Date Ana ICVs	lyzed: 2007-11 ICVs Found Conc. 96.9 lyzed: 2007-11 CCVs Found Conc. 103 lyzed: 2007-11 ICVs	I-01 ICVs Percent Recovery 97 I-01 CCVs Percent Recovery 103 I-01	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent	yzed By: AR Date Analyzed 2007-11-01 yzed By: AR Date Analyzed 2007-11-01 yzed By: AR
Standard QC Batch: Param Chloride Standard QC Batch: Param Chloride Standard QC Batch:	(ICV-1) 42631 Flag (CCV-1) 42631 Flag (ICV-1) 42632	Units mg/Kg Units mg/Kg	Date Ana ICVs True Conc. 100 Date Ana CCVs True Conc. 100 Date Ana ICVs True	lyzed: 2007-11 ICVs Found Conc. 96.9 lyzed: 2007-11 CCVs Found Conc. 103 lyzed: 2007-11 ICVs Found	I-01 ICVs Percent Recovery 97 I-01 CCVs Percent Recovery 103 I-01 ICVs Percent	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery	yzed By: AR Date Analyzed 2007-11-01 yzed By: AR Date Analyzed 2007-11-01 yzed By: AR
Standard QC Batch: Param Chloride Standard QC Batch: Param Chloride Standard QC Batch:	(ICV-1) 42631 Flag (CCV-1) 42631 Flag (ICV-1) 42632 Flag	Units mg/Kg Units mg/Kg Units	Date Ana ICVs True Conc. 100 Date Ana CCVs True Conc. 100 Date Ana ICVs True Conc.	lyzed: 2007-11 ICVs Found Conc. 96.9 lyzed: 2007-11 CCVs Found Conc. 103 lyzed: 2007-11 ICVs Found COVS	I-01 ICVs Percent Recovery 97 I-01 CCVs Percent Recovery 103 I-01 ICVs Percent Recovery	Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits	yzed By: AR Date Analyzed 2007-11-01 yzed By: AR Date Analyzed 2007-11-01 yzed By: AR Date Analyzed

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Standard	(CCV-1)						
QC Batch:	42632		Date Anal	yzed: 2007-11	-01	Anal	yzed By: AR
Param Chloride	Flag	Units mg/Kg	CCVs True Conc.	CCVs Found Conc. 97.7	CCVs Percent Recovery 98	Percent Recovery Limits 85 - 115	Date Analyzed 2007-11-01
Standard	(ICV-1)						
QC Batch:	42672		Date Anal	yzed: 2007-11	-02	Anal	yzed By: AR
Param Chloride	Flag	Units mg/Kg	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits 85 - 115	Date Analyzed
		/ ILE	100			00 110	2007 11 02
Standard	(CCV-1)						
QC Batch:	42672		Date Ana	yzed: 2007-11	-02	Anal	yzed By: AR
Param Chloride	Flag	Units mg/Kg	CCVs True Conc. 100	CCVs Found Conc. 101	CCVs Percent Recovery 101	Percent Recovery Limits 85 - 115	Date Analyzed 2007-11-02
Standard	(ICV-1)						
QC Batch:	42673		Date Ana	lyzed: 2007-11	1-02	Anal	yzed By: AR
Param Chloride	Flag	Units mg/Kg	ICVs True Conc. 100	ICVs Found Conc. 99.8	ICVs Percent Recovery 100	Percent Recovery Limits 85 - 115	Date Analyzed 2007-11-02
Standard	(CCV-1)						
QC Batch:	42673		Date Ana	lyzed: 2007-11	1-02	Anal	yzed By: AR
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-11-02

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QC Batch: 42674

Date Analyzed: 2007-11-02

Analyzed By: AR

Report Dat 3133	e: November 8	5, 2007	V Cele	Vork Order: 71 ro-Rock Queen	02426 Unit 33	Page N	umber: 25 of 25
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 Anal	yzed: 2007-11	-02	Anal	yzed By: AR
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recoverv	Percent Recovery Limits	Date Analvzed
Chloride		mg/Kg	100	103	103	85 - 115	2007-11-02

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APPENDIX B PERMEABILITY/SIEVE ANALYSIS

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Hines, Jolean

From: Hines, Joken

Sent: Monday, September 28, 2005 3:48 PM

To: 'John P Pellicer'

Subject: Cover Bucket Density & Clay K-Sat

John,

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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 (remolided at 90%). Please let me know how to proceed.

Thank you,

Joleen

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

505.889.7752 505.889.0258(fax) jhines@dbstephens.com 11/02/2007 07:42 5053470435 Sep. 26. 2005 3:55PM GANDY MARLEY INC



a start

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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 Dale: 23-Sep-05

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

> Dry weight of sample (g): 20511.00 Sample volume (c:n³): 14884.53 Assumed particle density: 2.65

initial Volumetric Moisture Content (% vol): 6.9 Initial Grevimetric Moisture Content (% g/g): 5.0 Dry bulk density (g/cm³): 1.38 Wet bulk density (g/cm³): 1.45 Celculated Porcelly (% 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

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Daniel B. Stephens & Associates, Inc.

Summary of Saturated Hydraulic Conductivity Tests

		Kaal	Method pt	Analysis
Sam	ple Number	 (cm/sec)	Constant Head Flexible Wall	Falling Head Flexible Wall
	Clay	1,5E-08		×

SAMPLE RECEIPT FORM

NA

Yes

Yes

Yes

See Notes

See Notes

DATE RECEIVED: 9/16/05



Signature: <

5840 OSUNA RO NE, ALBUQUERQUE, NM 87109 (508) 888-7752 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 consultute a professional or expert opinion by DBS&A, nor can the results affact 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 discialms any and all other warranties of any kind whatsoever.

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

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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

			Rele	ease Notifie	catio	n and Co	orrective A	ction				
									(AME	NDED)		
						OPERA	FOR		🖄 Initia	al Report		Final Report
Name of Co	ompany: C	Celero Energ	y II, LP			Contact: Br	ruce Woodard					
Address: 4	00 W. Illin	ois, Suite 16	601, Midl	and, TX 79701		Telephone N	No. 432-686-18	83				
Facility Nat	me: Rock	Queen Unit	Tract #32	3 Tank Battery		Facility Typ	e: Pit at Tank B	Battery				
Surface Ow	ner Privat	.e		Mineral (Owner				Lease N	lo.		
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter F	Section\ 23	Township 13S	Range 31E	Feet from the	Nort	h/South Line	Feet from the	East/W	Vest Line	County Chaves		
	·	Lat	titude _	33.17 <u>611</u> °		Longitu	de <u>103.796</u>	511°				
				NAT	ΓURI	E OF REL	EASE					
Type of Rele	ase Produc	ed Water				Volume of	Release Unknow	/n	Volume I	Recovered 1	Vone	
Source of Re	elease					Unknown	four of Occurrence	ce	Date and N/A	Hour of Dis	covery	У
Was Immedi	ate Notice (Given?				If YES, To	Whom?	I				<u> </u>
		\boxtimes	Yes 🗌	No 🗌 Not Re	equired	Larry John	ison, NMOCD					
By Whom?						Date and H	lour					
Bruce Wood	ard Room					IFVES V	aluma Importing	the Wete				
was a water	course Read		Yes 🛛	No		11 165, VG	orume impacting i	me wate	creourse.			
If a Waterco	urse was Im	pacted. Desci	ibe Fully.	*								
1		. ,	,									
Describe Cau	use of Probl	em and Reme	dial Actio	n Taken.*								
This is an his	storic pit loc	ation. Celero	acquired	from Palisades an	nd is in	the process of	closing.					
Describe Are	Affected	and Cleanup	Action Tal	lcon *								
Pit has been	dewatered a	and visually ir	npacted so	oil removed as per	r Invest	igation and Ch	naracterization Pla	an. Soil	borings ha	ve been plac	ced in a	and around
pit.			·									
I hereby cert	ify that the	information g	iven abov	e is true and comp	plete to	the best of my	knowledge and u	understar	nd that pur	suant to NM	OCD	rules and
regulations a public health	or the envi	ronment. The	e acceptan	ce of a C-141 rep	ort by t	he NMOCD m	nd perform correct arked as "Final R	cuve acti Report" d	lons for rei	ieve the ope	rator c	of liability
should their	operations h	ave failed to	adequately	y investigate and	remedi	ate contaminat	ion that pose a thr	reat to gr	ound wate	r, surface w	ater, h	uman health
or the enviro	nment. In a	ddition, NM	CD acce	ptance of a C-141	report	does not reliev	ve the operator of	responsi	ibility for c	compliance	with ar	ny other
federal, state	, or local a	ws and/or reg	ularions.	/			OIL CON	CEDV		DIVICI		
	//		VX	/			<u>OIL CON</u>	DLKV	ATION		714	
Signature:	1 hr	n.	1-1	·								
Printed Nam	e: Bruce W	oodard				Approved by	District Supervis	sor:				
Title: Engine	ar					Annroval Da			Evaluation	Data		
I IIIC. Engine	<u></u>					Approvar Da			Expiration			
E-mail Addr	ess: bwooda	ard@celeroen	ergy.com			Conditions o	f Approval:			Attacher	4 D	
Deter	D1.	- (120) 606	1007							Allacited	4 LJ	
Date:	Phone	10: (432) 080- ets If Neces	-1885 Sarv			l	·				<u> </u>	
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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised June 10, 2003

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Oil Conservation Division 1220 South St. Francis Dr. Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

220 S. St. Fm	iers Dr., Santa	a ro, nivi 8750.	,	Sa	anta Fe	e, NM 875	05				side of form
	·		Rele	ease Notifi	catior	1 and Co	orrective A	ction			
								(AME	NDED)		
					· · · · · ·	OPERA	FOR	Initi	al Report	\boxtimes	Final Report
Name of Co	ompany: C	Celero Energ	y II, LP	and TY 70701		Contact: Bruce Woodard					
Address: 4 Facility Na	<u>ne Rock</u>	Oueen Unit	$\frac{1}{2}$ Tract #3	and, IX 79701 3 Tank Battery		Facility Typ	NO. 432-686-18 e. Pit at Tank P	løs Batterv			
Surface Owner Private Mineral Owner						Lease No.					
		1 ···	г <u> </u>	LOCA	ATIO	N OF REI	LEASE	<u></u>			
Unit Letter F	Section\ 23	Township 13S	Range 31E	Feet from the	North/	South Line	Feet from the	East/West Line	County Chaves		
		Lat	titude _	<u>33.17611°</u>		Longitu	de <u>103.796</u>	511°			
		1 117		NAT	TURE	OF REL	EASE				
Type of Rele Source of Re	elease Produc	ed Water				Date and F	n Volume l	Volume Recovered None			
						Unknown	N/A	N/A			
Was Immedi	iate Notice (Given?	Ves 🗖	No 🗍 Not R	onired	If YES, To	Whom?				
By Whom?						Date and Hour					
Bruce Wood Was a Water	ard course Read	ched?				If VES. Volume Impacting the Watercourse					
$\square Yes \boxtimes No$											
Describe Car This is an his Describe Arc Pit has been pit. A one fo I hereby cert regulations a public health should their or the enviro federal, state	ase of Probl storic pit loc ea Affected dewatered a bot thick cla ify that the i ll operators or the envir operations h nment. In a , or local law	em and Reme cation. Celerc and Cleanup / ind visually in y liner was in information g are required t ronment. The lave failed to a iddition, NMC ws and/or y cel	dial Action acquired Action Tal npacted so stalled at f iven above o report an acceptant adequately DCD accep ulations.	n Taken.* from Palisades an cen.* il removed as per four feet bgs and e is true and comp nd/or file certain the of a C-141 rep v investigate and otance of a C-141	nd is in the site base of the site base of the site base of the site base of the site of t	he process of gation and Ch prought up to he best of my otifications and e NMOCD m e contaminations of the the loes not reliev	closing. aracterization Pla surface grade. knowledge and u nd perform correc arked as "Final R on that pose a the on that pose a the the operator of OIL CON	nn. Soil borings ha inderstand that pur ctive actions for rel eport" does not rel reat to ground wate responsibility for c SERVATION	ve been places suant to NM leases which ieve the ope or, surface w compliance w DIVISIC	ed in a OCD r may e rator o nter, hu vith an DN	nd around ules and ndanger f liability unan health y other
Signature: MMAL					Approved by District Supervisor:						
Printed Nam	e: Bruce Wo	oodard	<u>-</u>				·				
Title: Engineer						Approval Da	te:	Expiration	Expiration Date:		
E-mail Address: bwoodard@celeroenergy.com						Conditions of Approval:			Attached	Attached	
Date:	Phor	ne: (432) 686-	1883								

District I State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 Form C-144 **Energy Minerals and Natural Resources** District II June 1, 2004 1301 W. Grand Avenue, Artesia, NM 88210 For drilling and production facilities, submit to District III **Oil Conservation Division** appropriate NMOCD District Office. 1000 Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. For downstream facilities, submit to Santa Fe District IV 1220 S. St. Francis Dr., Santa Fc, NM 87505 office Santa Fe, NM 87505 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 🔲 Onerator Celero Energy II, LP Telephone: (432) 686-1883 e-mail address: bwoodard@celeroenergy.com Address: 400 West Illinois, Suite 1601, Midland, Texas 79701 U/L. or Qtr/Qtr E. Facility or well name: Rock Queen Unit Tract 33 Tank Battery API #: ____ Sec 23 T-13-S R-31-E Latitude 33.17611 N Longitude 103.79611 W NAD: 1927 🖾 1983 🗋 County: Chaves Surface Owner: Federal 🗍 State 🗍 Private 🕅 Indian 🗍 Pit Below-grade tank Type: Drilling - Production Disposal Volume: bb1 Type of fluid: Workover 🔲 Emergency 🛛 Construction material: Double-walled, with leak detection? Yes [] If not, explain why not. Lined 🛛 Untined 🗍 Liner type: None Thickness Unknown mil Clay 🔲 Pit Volume 2,500 bbt (20 points) Less than 50 feet Depth to ground water (vertical distance from bottom of pit to seasonal 50 feet or more, but less than 100 feet (10 points) high water elevation of ground water.) 100 feet or more (0 points) 0 Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic No (0 points) 0 water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) irrigation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more (0 points) 0 A **Ranking Score (Total Points)** 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: (clicck the onsite hox if your 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 fi. 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 Signature Printed Name/Title Bruce Woodard, Engineer 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 ______ Date: ______

 District I 1625 N. French Dr., Hobbs, NM 88240 District III 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

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

Form C-144

June 1, 2004

	Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes \Box No \boxtimes Type of action: Registration of a pit or below-grade tank \Box Closure of a pit or below-grade tank \Box									
	Operator:Celero Energy II. LPTelephone:(432) 686-1883e-mail address:bwoodward@celeroenergy.com									
	Facility or well name: _Rock Queen Unit Tract 33 Tank Battery_API #: _ County:ChavesLatitud Surface Owner: Federal	U/L or Qtr/Qtr F Sec de33.17611 N Longitude1	23T13-SR31-E 03.79611NAD: 1927 🛛 1983 🗌							
	Pit Type: Drilling □ Production □ Disposal □ Workover □ Emergency ⊠ Lined □ Unlined ⊠ Liner type: None Thickness Unknown Clay □ Pit Volume2,500bbl	Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes [] 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							
and a second second	f this is a pit closure: (1) Attach a diagram of the facility showing the pit's up to the facility showing the pit's up to the facility of facility of the facility of faci	Ranking Score (Total Points) s relationship to other equipment and tanks. (2) Indica	te disposal location: (check the onsite box if							
(5) Attach soil sample results and a diagram of sample locations and excavations.										
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	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 denths 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/TitleBruce Woodward, EngineerSignature Signature Signature for 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:							