

District I
625 N. French Dr., Hobbs, NM 88240
District II
301 W. Grand Avenue, Artesia, NM 88210
District III
000 Rio Brazos Road, Aztec, NM 87410
District IV
220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **RECEIVED**
Energy Minerals and Natural Resources
Oil Conservation Division **OCT 16 2009**
1220 South St. Francis Dr. **HOBBSOCD**
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company CELERO ENERGY II, LP	Contact Lisa Hunt
Address 400 W. Illinois, Ste. 1601 Midland, TX 79701	Telephone No. (432)686-1883
Facility Name Glad Wallace #2	Facility Type Well
Surface Owner Dean Kinsolving	Mineral Owner
	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	31	11S	38E	1650'	South	1650'	East	Lea

Latitude _____ Longitude _____ API # **30-025-07115-00-00**

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 100-150 bbls	Volume Recovered 40 bbls
Source of Release Flowline	Date and Hour of Occurrence 10/13/09	Date and Hour of Discovery 10/13/09pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking	
By Whom? Lisa Hunt	Date and Hour 10/14/09 11:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

WATER @ 36'

Describe Cause of Problem and Remedial Action Taken.*
Flowline busted. Doing immediate remediation by scraping up 8-12 inches of dirt off affected area & stock piling it on plastic on caliche pad.

Describe Area Affected and Cleanup Action Taken.*
150 x 150 area affected. Tetra Tech will be running the assessment and taking soil samples.

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

Signature: <i>Lisa Hunt</i>	OIL CONSERVATION DIVISION	
Printed Name: Lisa Hunt	Approved by <small>ENV ENGINEERING</small> District Supervisor: <i>Geoffrey Leking</i>	
Title: Regulatory Analyst	Approval Date: 10/19/09	Expiration Date: 12/21/09
E-mail Address: LHunt@celeroenergy.com	Conditions of Approval: DELIVER TO CLEAN+1. SUBMIT FINAL C-141 BY 12/21/09.	Attached <input type="checkbox"/>
Date: 10/14/2009 Phone: (432)686-1883		IRP-09-11-2329

Attach Additional Sheets If Necessary

f GRH 0930936024

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

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

Form C-141
Revised October 10, 2003
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Celero Energy II, LP	Contact Lisa Hunt
Address 5400 W. Illinois, Ste 1601, Midland, Texas 79701	Telephone No. (432) 686-1883
Facility Name VV Wallace Well #2	Facility Type Well

Surface Owner Dean Kinsolving	Mineral Owner	Lease No. 30-025-07115
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	31	11S	38E	1650	South	1650	East	Lea

Latitude N 33.31980 Longitude W 103.13354

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 100-150 bbls	Volume Recovered 40 bbls
Source of Release Flow line	Date and Hour of Occurrence 10/13/09	Date and Hour of Discovery 10/13/09 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking	
By Whom? Lisa Hunt	Date and Hour 10/14/09 11:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Flow line busted. Doing immediate remediation by scraping up 8-12 inches of dirt off affected area and stockpiling it on plastic on caliche pad.

Describe Area Affected and Cleanup Action Taken.*

The flow line spill area was located off the well pad (north of the pad) in the pasture. Tetra Tech collected assessed and defined extents of impact. TPH and BTEX levels were below the RRAL. Upon further review, the spill occurred on top of a closed reserve pit and appears the chloride concentration may be related to the reserve pit. Based on the finding, Celero requested closure of the spill. Tetra Tech prepared assessment and closure report to NMOCD for review.

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

OIL CONSERVATION DIVISION

Signature: *Evan Wauhob*

Printed Name: Evan Wauhob

Approved by District Supervisor:

Title:

Approval Date:

Expiration Date:

E-mail Address: ewauhob@celeroenergy.com

Conditions of Approval:

Attached

Date: Phone: (432) 686-1883

Attach Additional Sheets If Necessary

SITE INFORMATION

Report Type: Work Plan

General Site Information:

Site:	Glad Wallace #2	
Company:	Celero Energy II, LP	HOBBS OCD
Section, Township and Range	Section 31 T11S R 38E Unit J	
Lease Number:	API 30 025 07115	
County:	Lea County	OCT 24 2012
GPS:	33.31980° N, 103.13354° W	
Surface Owner:	Dean Kingsolving	
Mineral Owner:	Various Private	RECEIVED
Directions:	Go east of Tatum, NM approx. 10 miles, turn left (north) onto CR168, go 3.0 miles and turn right (east) and go 0.7 miles, turn left (north) and go 1.1 miles, turn left (west) to well.	

Release Data:

Date Released:	10/13/2009
Type Release:	Produced water
Source of Contamination:	Flowline leak
Fluid Released:	100-150 barrels
Fluids Recovered:	40 bbls

Official Communication:

Name:	Evan Wauhob	Ike Tavaréz
Company:	Celero Energy II, LP	Tetra Tech
Address:	400 W. 1601	1910 N. Big Spring
P.O. Box		
City:	Midland Texas, 79701	Midland, Texas
Phone number:	(432) 686-1883	(432) 682-4559
Cell:	(432) 813-5439	(432) 425-3878
Email:	ewauhob@celeroenergy.com	ike.tavarez@tetratech.com

Ranking Criteria

Depth to Groundwater:	Ranking Score	Site Data
<50 ft.	20	Average Depth less than 50 feet
50-99 ft	10	
>100 ft.	0	
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score:	0	

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	100



October 24, 2012

Mr. Geoffrey Leking
Environmental Engineer Specialist
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Work Plan for the Celero Energy II LP, Wallace Well #2, Unit J, Section 31, Township 11 South, Range 38 East, Lea County, New Mexico, NMOCD Lease #30-0250-07115, (1RP 2329).

Mr. Leking:

Tetra Tech, Inc. was contacted by Celero Energy II, LP (Celero) to assess a spill from the Wallace Well #2, located in Unit J, Section 31, Township 11 South, Range 38 East, Lea County, New Mexico (Site). The spill site coordinates are N 33.31980°, W 103.13354°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on October 13, 2009. A flow line, located north of the well pad, leaked in the pasture releasing 100-150 barrels of produced water. A vacuum truck was used to recover 40 barrels of fluids. The release impacted an area approximately 150' x 150'. Celero immediately scraped 8" to 12" of impacted soil and hauled the material to Gandy Marley, Inc. for disposal. The initial Form C-141 is enclosed in Appendix C.

Groundwater

According to published data, the NMOSE Waters database showed an average depth to water of 45' below ground surface in Section 31, Township 11 South, Range 38 East. Copies of available groundwater data are included in Appendix A.

Regulatory

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

Tetra Tech

1910 North Pig Spring, Midland, TX 79705

Tel 432.682.4555 Fax 432.682.3946 www.tetrattech.com



(sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater (<50'), the proposed RRAL for TPH is 100 mg/kg.

Soil Assessment and Results

On October 26, 2009, Tetra Tech personnel inspected and sampled the spill area. The spill area measured approximately 100' x 125'. A total of six (6) auger holes (AH-1 through AH-6) were installed using a stainless steel hand auger to assess the impacted soils. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix B. The results of the sampling are summarized in Table 1. The spill area and auger hole locations are shown on Figure 3.

The TPH and BTEX concentrations were all below the RRAL. The chloride concentrations ranged from a high of 4,490 mg/kg at AH-4 (0-0.5') to <200 mg/kg. The majority of the chloride concentrations did not decline with depth.

Proposed Work Plan

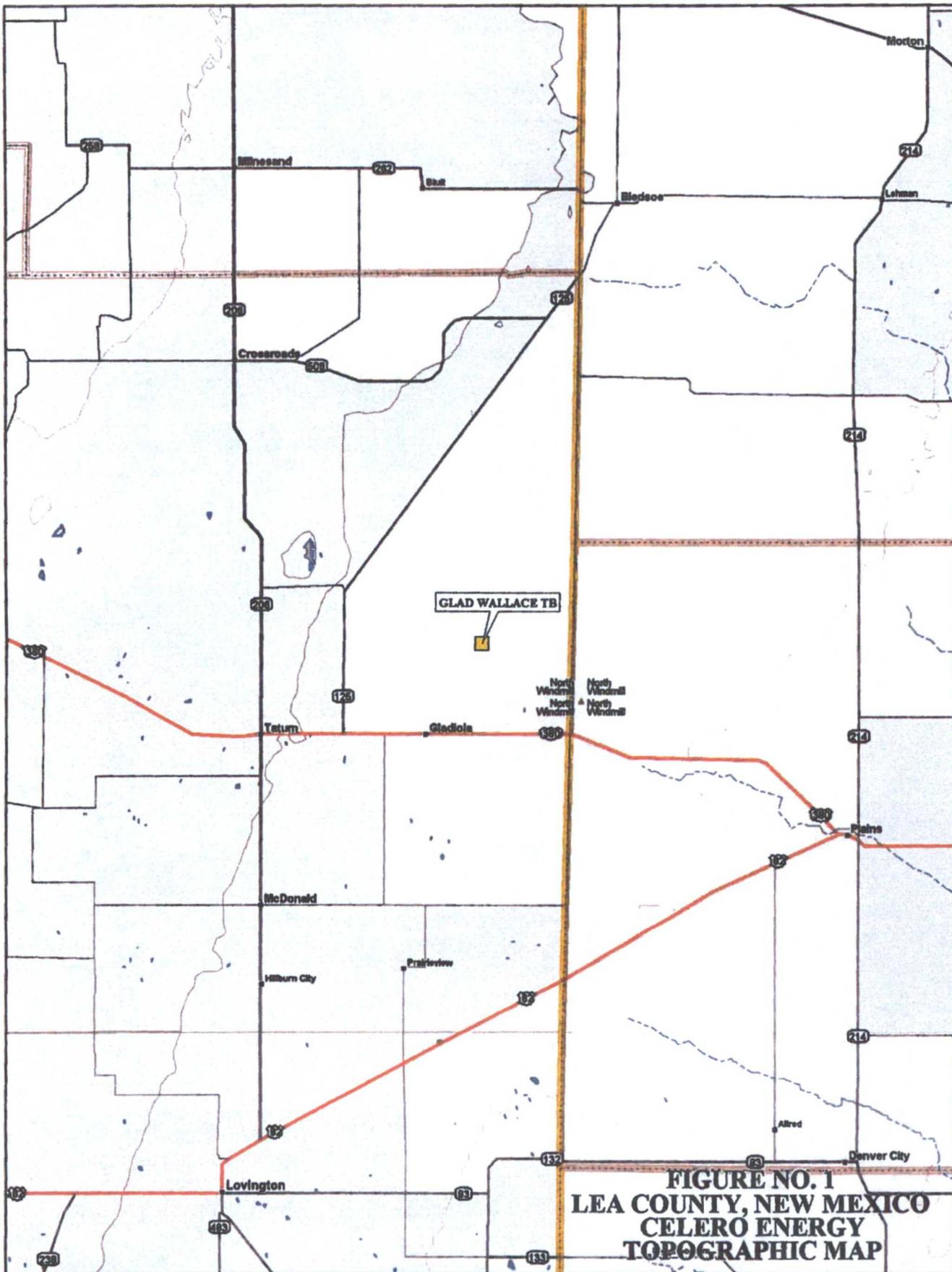
In a September 20, 2012 meeting between Tetra Tech and Geoffrey Leking of the NMOCD, Mr. Leking instructed Tetra Tech that he would accept closure of the site, if Celero would remove the remaining 2 to 3 feet in bottom (total depth of 3 to 4 feet below ground surface) of soil in the 100 foot x 125 foot impact area over the reserve pit. In order to prevent further vertical migration of the soils, a 20-mil polyethylene liner (of the same dimensions) will be installed at 4 feet bgs and backfilled with clean soil to surface grade. The excavated soils will be transported offsite for disposal at Gandy-Marley of Tatum, New Mexico. Afterwards, the site will be reseeded with native vegetation.

If you require any additional information or have any questions concerning this work plan, please call at (432) 682-4559.

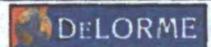
Respectfully submitted,
TETRA TECH

Jeffrey Kindley, P.G.
Senior Project Manager

cc: Bruce Woodard – Celero
Evan Wahob - Celero

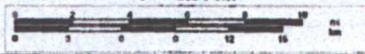


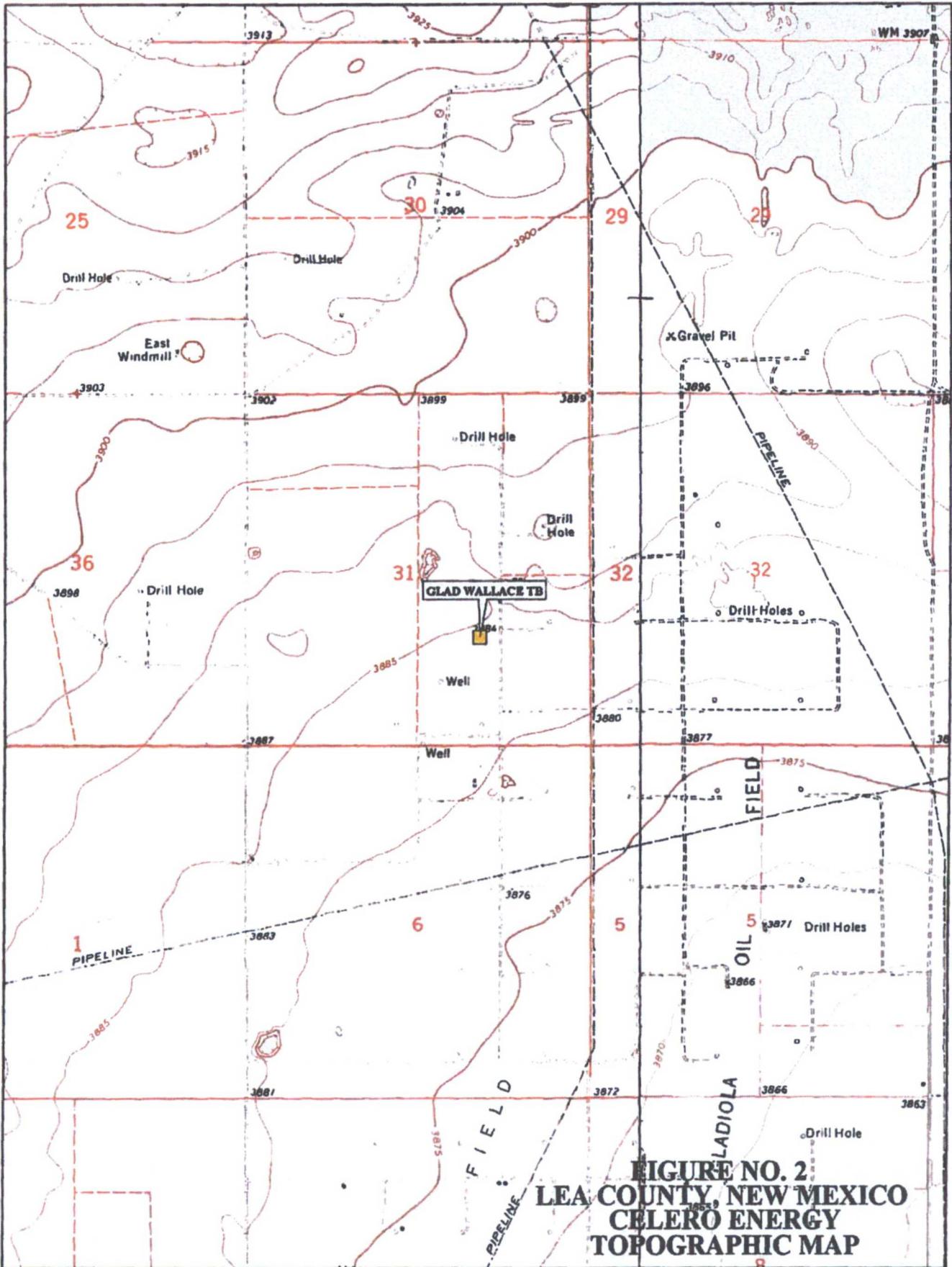
**FIGURE NO. 1
LEA COUNTY, NEW MEXICO
CELERO ENERGY
TOPOGRAPHIC MAP**



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www.delorme.com

Scale 1 : 400,000
1" = 6.31 mi





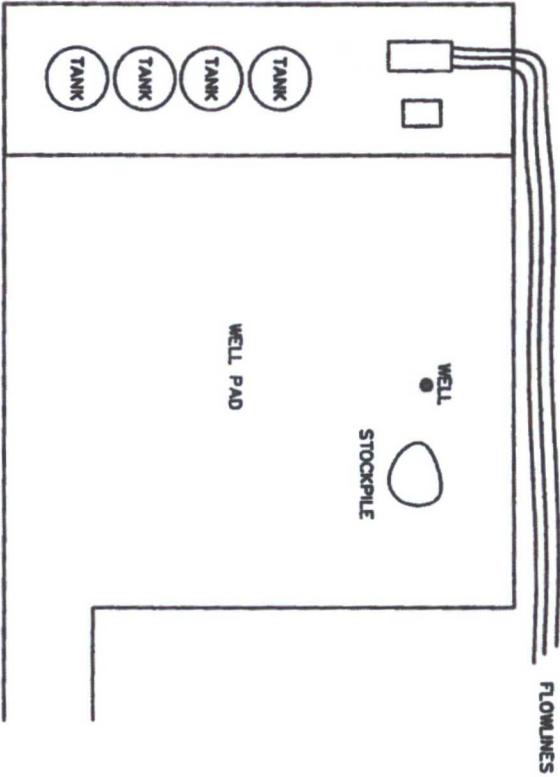
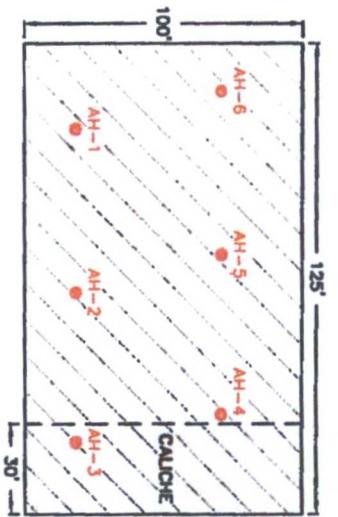
**FIGURE NO. 2
LEA COUNTY, NEW MEXICO
CELERO ENERGY
TOPOGRAPHIC MAP**

DELORME

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www.delorme.com

Scale 1 : 24,000
1" = 2000 ft





- SPILL AREA
- SAMPLE LOCATIONS

NOT TO SCALE

DATE	10/28/09
REV. BY	JJ
FILE	
APPROVED BY	

LEA COUNTY, NEW MEXICO
CELEIRO ENERGY
GLAD WALLACE TB
TETRA TECH, INC.
MIDLAND, TEXAS

FIGURE NO. 3



© Glad Wallace Well #2

© 2005 Google

© 2010 Google

Image © 2010 DigitalGlobe

33.19.10.57 N 103.07.59.92 W 605 1164 m

Nov 24 2005

Eye B

Table 1
Celero
Glad Wallace Well #2 Flowline
Eddy County, New Mexico

Sample ID	Date Sampled	Sample Depth (ft)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
			DRO	GRO	Total					
AH-1	10/26/2009	0-1	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	1,930
		1-1.5	-	-	-	-	-	-	-	2,460
		2-2.5	-	-	-	-	-	-	-	-
AH-2	10/26/2009	0-1	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	2,790
		1-1.5	-	-	-	-	-	-	-	1,910
AH-3	10/26/2009	0-0.5	-	-	-	-	-	-	-	3,220
AH-4	10/26/2009	0-0.5	-	-	-	-	-	-	-	4,490
AH-5	10/26/2009	0-1	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	2,280
		1-1.5	-	-	-	-	-	-	-	1,990
		2-2.5	-	-	-	-	-	-	-	2,030
AH-6	10/26/2009	0-1	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	1,510
		1-1.5	-	-	-	-	-	-	-	<200
		2-2.5	-	-	-	-	-	-	-	<200
		3-3.5	-	-	-	-	-	-	213	

(-) Not Analyzed

Water Well Data
Average Depth to Groundwater (ft)
Celero - Glad Wallace Well #2

11 South 36 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

11 South 37 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

11 South 38 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31Site	32	33	34	35	36

12 South 36 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

12 South 37 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

12 South 38 East

6	42	5	4	3	2	1
7	8	9	10	11	12	
36	46	50				
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

13 South 36 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

13 South 37 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

13 South 38 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

- 88** New Mexico State Engineers Well Reports
- 105** USGS Well Reports
- 90** Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
 Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34** NMOCD - Groundwater Data

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 11S Range: 37E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

AVERAGE DEPTH OF WATER REPORT 03/06/2009

Ben	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	11S	37E	24				2	95	95	95
L	11S	37E	25				2	65	110	88

Record Count: 4

New Mexico Office of the State Engineer
 POD Reports and Downloads

Township: 12S Range: 37E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

AVERAGE DEPTH OF WATER REPORT 03/06/2009

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	12S	37E	05				2	35	35	35
L	12S	37E	06				2	40	40	40
L	12S	37E	07				1	50	50	50
L	12S	37E	13				5	26	35	31
L	12S	37E	18				2	25	25	25
L	12S	37E	22				2	48	48	48
L	12S	37E	23				4	32	35	34
L	12S	37E	24				10	21	85	46
L	12S	37E	25				1	60	60	60
L	12S	37E	26				4	30	80	43
L	12S	37E	27				5	33	54	43
L	12S	37E	28				2	42	42	42
L	12S	37E	29				3	38	51	47
L	12S	37E	34				1	40	40	40
L	12S	37E	35				3	40	45	43
L	12S	37E	36				1	30	30	30

Record Count: 48

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 11S Range: 38E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

POD / Surface Data Report Avg Depth to Water Report
Water Column Report

Clear Form IWATERS Menu Help

AVERAGE DEPTH OF WATER REPORT 03/06/2009

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	11S	38E	15				1	60	60	60
L	11S	38E	16				2	250	250	250
L	11S	38E	28				2	98	100	99
L	11S	38E	29				2	90	100	95
L	11S	38E	31				2	45	45	45
L	11S	38E	33				3	85	96	89

Record Count: 12

New Mexico Office of the State Engineer
 POD Reports and Downloads

Township: 12S Range: 38E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

AVERAGE DEPTH OF WATER REPORT 03/06/2009

Ben	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	12S	38E	02				2	35	35	35
L	12S	38E	05				18	35	115	65
L	12S	38E	06				10	35	65	42
L	12S	38E	07				13	25	50	36
L	12S	38E	08				12	35	75	46
L	12S	38E	09				1	50	50	50
L	12S	38E	10				1	50	50	50
L	12S	38E	14				1	50	50	50
L	12S	38E	16				2	25	40	33
L	12S	38E	17				4	26	35	31
L	12S	38E	18				30	20	50	28
L	12S	38E	19				8	28	30	29
L	12S	38E	20				1	39	39	39
L	12S	38E	23				3	25	120	58
L	12S	38E	27				2	42	42	42
L	12S	38E	28				1	18	18	18
L	12S	38E	31				1	45	45	45
L	12S	38E	33				3	32	40	36
L	12S	38E	34				2	42	45	44
L	12S	38E	35				4	27	110	69

Record Count: 119

Summary Report

Ike Tavaréz
Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705

Report Date: November 2, 2009

Work Order: 9102820



Project Location: Lea Co., NM
Project Name: Celero/Glad Wallace Well #2 Flowline
Project Number: 114-6400329

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
213304	AH-1 0-1' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213305	AH-1 1'-1.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213306	AH-1 2'-2.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213307	AH-2 0-1' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213308	AH-2 1'-1.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213309	AH-3 0-0.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213310	AH-4 0-0.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213311	AH-5 0-1' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213312	AH-5 1'-1.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213313	AH-5 2'-2.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213314	AH-6 0-1' 0.5'BEB	soil	2009-10-26	00:00	2009-10-28
213315	AH-6 1'-1.5' 0.5'BEB	soil	2009-10-26	00:00	2009-10-28
213316	AH-6 2'-2.5' 0.5'BEB	soil	2009-10-26	00:00	2009-10-28
213317	AH-6 3'-3.5' 0.5'BEB	soil	2009-10-26	00:00	2009-10-28

Sample - Field Code	BTEX				TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)		
213304 - AH-1 0-1' 1'BEB	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00
213307 - AH-2 0-1' 1'BEB	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00
213311 - AH-5 0-1' 1'BEB	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00
213314 - AH-6 0-1' 0.5'BEB	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00

Sample: 213304 - AH-1 0-1' 1'BEB

Param	Flag	Result	Units	RL
Chloride		1930	mg/Kg	4.00

Sample: 213305 - AH-1 1'-1.5' 1'BEB

Param	Flag	Result	Units	RL
Chloride		2460	mg/Kg	4.00

Sample: 213306 - AH-1 2'-2.5' 1'BEB

Param	Flag	Result	Units	RL
Chloride		2760	mg/Kg	4.00

Sample: 213307 - AH-2 0-1' 1'BEB

Param	Flag	Result	Units	RL
Chloride		2790	mg/Kg	4.00

Sample: 213308 - AH-2 1'-1.5' 1'BEB

Param	Flag	Result	Units	RL
Chloride		1910	mg/Kg	4.00

Sample: 213309 - AH-3 0-0.5' 1'BEB

Param	Flag	Result	Units	RL
Chloride		3120	mg/Kg	4.00

Sample: 213310 - AH-4 0-0.5' 1'BEB

Param	Flag	Result	Units	RL
Chloride		4490	mg/Kg	4.00

Sample: 213311 - AH-5 0-1' 1'BEB

Param	Flag	Result	Units	RL
Chloride		2280	mg/Kg	4.00

Sample: 213312 - AH-5 1'-1.5' 1'BEB

Param	Flag	Result	Units	RL
Chloride		1990	mg/Kg	4.00

Sample: 213313 - AH-5 2'-2.5' 1'BEB

Param	Flag	Result	Units	RL
Chloride		2030	mg/Kg	4.00

Sample: 213314 - AH-6 0-1' 0.5'BEB

Param	Flag	Result	Units	RL
Chloride		1510	mg/Kg	4.00

Sample: 213315 - AH-6 1'-1.5' 0.5'BEB

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Sample: 213316 - AH-6 2'-2.5' 0.5'BEB

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Sample: 213317 - AH-6 3'-3.5' 0.5'BEB

Param	Flag	Result	Units	RL
Chloride		213	mg/Kg	4.00

TRACE ANALYSIS, INC.

Dallas Office: 972-412-1234 • Fax: 972-412-1235
 Houston Office: 281-412-1234 • Fax: 281-412-1235
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 El Paso Office: 915-412-1234 • Fax: 915-412-1235
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 Email: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX **El Paso:** T104704221-08-TX **Midland:** T104704392-08-TX
 LELAP-02003 LELAP-02002
 Kansas E-10317

Analytical and Quality Control Report

Ike Tavarez
 Tetra Tech
 1910 N. Big Spring Street
 Midland, TX, 79705

Report Date: November 2, 2009

Work Order: 9102820



Project Location: Lea Co., NM
Project Name: Celero/Glad Wallace Well #2 Flowline
Project Number: 114-6400329

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
213304	AH-1 0-1' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213305	AH-1 1'-1.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213306	AH-1 2'-2.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213307	AH-2 0-1' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213308	AH-2 1'-1.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213309	AH-3 0-0.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213310	AH-4 0-0.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213311	AH-5 0-1' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213312	AH-5 1'-1.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28
213313	AH-5 2'-2.5' 1'BEB	soil	2009-10-26	00:00	2009-10-28

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
213314	AH-6 0-1' 0.5'BEB	soil	2009-10-26	00:00	2009-10-28
213315	AH-6 1'-1.5' 0.5'BEB	soil	2009-10-26	00:00	2009-10-28
213316	AH-6 2'-2.5' 0.5'BEB	soil	2009-10-26	00:00	2009-10-28
213317	AH-6 3'-3.5' 0.5'BEB	soil	2009-10-26	00:00	2009-10-28

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

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



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

Standard Flags

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

Case Narrative

Samples for project Celero/Glad Wallace Well #2 Flowline were received by TraceAnalysis, Inc. on 2009-10-28 and assigned to work order 9102820. Samples for work order 9102820 were received intact at a temperature of 8.3 deg. C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	55431	2009-10-30 at 16:00	64884	2009-10-31 at 02:02
Chloride (Titration)	SM 4500-Cl B	55353	2009-10-29 at 08:03	64908	2009-11-02 at 15:00
Chloride (Titration)	SM 4500-Cl B	55354	2009-10-29 at 08:04	64909	2009-11-02 at 15:01
Chloride (Titration)	SM 4500-Cl B	55355	2009-10-29 at 08:04	64910	2009-11-02 at 15:02
TPH DRO	Mod. 8015B	55384	2009-10-29 at 13:27	64842	2009-10-29 at 13:27
TPH GRO	S 8015B	55431	2009-10-30 at 16:00	64885	2009-10-31 at 02:29

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9102820 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 213304 - AH-1 0-1' 1'BEB

Laboratory: Midland	Analytical Method: S 8021B	Prep Method: S 5035
Analysis: BTEX	Date Analyzed: 2009-10-31	Analyzed By: AG
QC Batch: 64884	Sample Preparation: 2009-10-30	Prepared By: AG
Prep Batch: 55431		

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.92	mg/Kg	1	2.00	96	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.27	mg/Kg	1	2.00	64	45.2 - 144.3

Sample: 213304 - AH-1 0-1' 1'BEB

Laboratory: Midland	Analytical Method: SM 4500-Cl B	Prep Method: N/A
Analysis: Chloride (Titration)	Date Analyzed: 2009-11-02	Analyzed By: AR
QC Batch: 64908	Sample Preparation: 2009-10-29	Prepared By: AR
Prep Batch: 55353		

Parameter	Flag	RL		Dilution	RL
		Result	Units		
Chloride		1930	mg/Kg	100	4.00

Sample: 213304 - AH-1 0-1' 1'BEB

Laboratory: Midland	Analytical Method: Mod. 8015B	Prep Method: N/A
Analysis: TPH DRO	Date Analyzed: 2009-10-29	Analyzed By: kg
QC Batch: 64842	Sample Preparation: 2009-10-29	Prepared By: kg
Prep Batch: 55384		

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

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		114	mg/Kg	1	100	114	13.2 - 219.3

Sample: 213304 - AH-1 0-1' 1'BEB

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 64885
Prep Batch: 55431
Analytical Method: S 8015B
Date Analyzed: 2009-10-31
Sample Preparation: 2009-10-30
Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.92	mg/Kg	1	2.00	96	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.22	mg/Kg	1	2.00	61	31 - 135

Sample: 213305 - AH-1 1'-1.5' 1'BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 64909
Prep Batch: 55354
Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-02
Sample Preparation: 2009-10-29
Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2460	mg/Kg	100	4.00

Sample: 213306 - AH-1 2'-2.5' 1'BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 64909
Prep Batch: 55354
Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-02
Sample Preparation: 2009-10-29
Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2760	mg/Kg	100	4.00

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Sample: 213307 - AH-2 0-1' 1'BEB

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 64884 Date Analyzed: 2009-10-31 Analyzed By: AG
Prep Batch: 55431 Sample Preparation: 2009-10-30 Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.91	mg/Kg	1	2.00	96	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.34	mg/Kg	1	2.00	67	45.2 - 144.3

Sample: 213307 - AH-2 0-1' 1'BEB

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 64909 Date Analyzed: 2009-11-02 Analyzed By: AR
Prep Batch: 55354 Sample Preparation: 2009-10-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2790	mg/Kg	100	4.00

Sample: 213307 - AH-2 0-1' 1'BEB

Laboratory: Midland
Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 64842 Date Analyzed: 2009-10-29 Analyzed By: kg
Prep Batch: 55384 Sample Preparation: 2009-10-29 Prepared By: kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		115	mg/Kg	1	100	115	13.2 - 219.3

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Sample: 213307 - AH-2 0-1' 1'BEB

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 64885
Prep Batch: 55431

Analytical Method: S 8015B
Date Analyzed: 2009-10-31
Sample Preparation: 2009-10-30

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.91	mg/Kg	1	2.00	96	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.29	mg/Kg	1	2.00	64	31 - 135

Sample: 213308 - AH-2 1'-1.5' 1'BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 64909
Prep Batch: 55354

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-02
Sample Preparation: 2009-10-29

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1910	mg/Kg	100	4.00

Sample: 213309 - AH-3 0-0.5' 1'BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 64909
Prep Batch: 55354

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-02
Sample Preparation: 2009-10-29

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3120	mg/Kg	100	4.00

Sample: 213310 - AH-4 0-0.5' 1'BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 64909
Prep Batch: 55354

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-02
Sample Preparation: 2009-10-29

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

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Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4490	mg/Kg	100	4.00

Sample: 213311 - AH-5 0-1' 1'BEB

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 64884 Date Analyzed: 2009-10-31 Analyzed By: AG
Prep Batch: 55431 Sample Preparation: 2009-10-30 Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.88	mg/Kg	1	2.00	94	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.29	mg/Kg	1	2.00	64	45.2 - 144.3

Sample: 213311 - AH-5 0-1' 1'BEB

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 64909 Date Analyzed: 2009-11-02 Analyzed By: AR
Prep Batch: 55354 Sample Preparation: 2009-10-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2280	mg/Kg	100	4.00

Sample: 213311 - AH-5 0-1' 1'BEB

Laboratory: Midland
Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 64842 Date Analyzed: 2009-10-29 Analyzed By: kg
Prep Batch: 55384 Sample Preparation: 2009-10-29 Prepared By: kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		119	mg/Kg	1	100	119	13.2 - 219.3

Sample: 213311 - AH-5 0-1' 1'BEB

Laboratory: Midland	Analytical Method: S 8015B	Prep Method: S 5035
Analysis: TPH GRO	Date Analyzed: 2009-10-31	Analyzed By: AG
QC Batch: 64885	Sample Preparation: 2009-10-30	Prepared By: AG
Prep Batch: 55431		

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.89	mg/Kg	1	2.00	94	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.24	mg/Kg	1	2.00	62	31 - 135

Sample: 213312 - AH-5 1'-1.5' 1'BEB

Laboratory: Midland	Analytical Method: SM 4500-Cl B	Prep Method: N/A
Analysis: Chloride (Titration)	Date Analyzed: 2009-11-02	Analyzed By: AR
QC Batch: 64909	Sample Preparation: 2009-10-29	Prepared By: AR
Prep Batch: 55354		

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1990	mg/Kg	50	4.00

Sample: 213313 - AH-5 2'-2.5' 1'BEB

Laboratory: Midland	Analytical Method: SM 4500-Cl B	Prep Method: N/A
Analysis: Chloride (Titration)	Date Analyzed: 2009-11-02	Analyzed By: AR
QC Batch: 64909	Sample Preparation: 2009-10-29	Prepared By: AR
Prep Batch: 55354		

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2030	mg/Kg	100	4.00

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Sample: 213314 - AH-6 0-1' 0.5'BEB

Laboratory: Midland
Analysis: BTEX
QC Batch: 64884
Prep Batch: 55431

Analytical Method: S 8021B
Date Analyzed: 2009-10-31
Sample Preparation: 2009-10-30

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.88	mg/Kg	1	2.00	94	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.23	mg/Kg	1	2.00	62	45.2 - 144.3

Sample: 213314 - AH-6 0-1' 0.5'BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 64909
Prep Batch: 55354

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-02
Sample Preparation: 2009-10-29

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1510	mg/Kg	50	4.00

Sample: 213314 - AH-6 0-1' 0.5'BEB

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 64842
Prep Batch: 55384

Analytical Method: Mod. 8015B
Date Analyzed: 2009-10-29
Sample Preparation: 2009-10-29

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		117	mg/Kg	1	100	117	13.2 - 219.3

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Sample: 213314 - AH-6 0-1' 0.5'BEB

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 64885
Prep Batch: 55431
Analytical Method: S 8015B
Date Analyzed: 2009-10-31
Sample Preparation: 2009-10-30
Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.89	mg/Kg	1	2.00	94	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.19	mg/Kg	1	2.00	60	31 - 135

Sample: 213315 - AH-6 1'-1.5' 0.5'BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 64910
Prep Batch: 55355
Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-02
Sample Preparation: 2009-10-29
Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 213316 - AH-6 2'-2.5' 0.5'BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 64910
Prep Batch: 55355
Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-02
Sample Preparation: 2009-10-29
Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 213317 - AH-6 3'-3.5' 0.5'BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 64910
Prep Batch: 55355
Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-02
Sample Preparation: 2009-10-29
Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		213	mg/Kg	50	4.00

Method Blank (1) QC Batch: 64842

QC Batch: 64842
Prep Batch: 55384

Date Analyzed: 2009-10-29
QC Preparation: 2009-10-29

Analyzed By: kg
Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<5.86	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		105	mg/Kg	1	100	105	13 - 178.5

Method Blank (1) QC Batch: 64884

QC Batch: 64884
Prep Batch: 55431

Date Analyzed: 2009-10-31
QC Preparation: 2009-10-30

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00100	mg/Kg	0.01
Toluene		<0.00100	mg/Kg	0.01
Ethylbenzene		<0.00110	mg/Kg	0.01
Xylene		<0.00360	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.93	mg/Kg	1	2.00	96	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		1.78	mg/Kg	1	2.00	89	51.9 - 128.1

Method Blank (1) QC Batch: 64885

QC Batch: 64885
Prep Batch: 55431

Date Analyzed: 2009-10-31
QC Preparation: 2009-10-30

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<0.482	mg/Kg	1

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.96	mg/Kg	1	2.00	98	71.9 - 115
4-Bromofluorobenzene (4-BFB)		1.73	mg/Kg	1	2.00	86	38.1 - 146.2

Method Blank (1) QC Batch: 64908

QC Batch: 64908 Date Analyzed: 2009-11-02 Analyzed By: AR
Prep Batch: 55353 QC Preparation: 2009-10-29 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 64909

QC Batch: 64909 Date Analyzed: 2009-11-02 Analyzed By: AR
Prep Batch: 55354 QC Preparation: 2009-10-29 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 64910

QC Batch: 64910 Date Analyzed: 2009-11-02 Analyzed By: AR
Prep Batch: 55355 QC Preparation: 2009-10-29 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Laboratory Control Spike (LCS-1)

QC Batch: 64842 Date Analyzed: 2009-10-29 Analyzed By: kg
Prep Batch: 55384 QC Preparation: 2009-10-29 Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	174	mg/Kg	1	250	<5.86	70	57.4 - 133.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	158	mg/Kg	1	250	<5.86	63	57.4 - 133.4	10	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	96.4	93.8	mg/Kg	1	100	96	94	48.5 - 146.7

Laboratory Control Spike (LCS-1)

QC Batch: 64884
Prep Batch: 55431

Date Analyzed: 2009-10-31
QC Preparation: 2009-10-30

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.88	mg/Kg	1	2.00	<0.00100	94	72.7 - 129.8
Toluene	1.91	mg/Kg	1	2.00	<0.00100	96	71.6 - 129.6
Ethylbenzene	1.92	mg/Kg	1	2.00	<0.00110	96	70.8 - 129.7
Xylene	5.68	mg/Kg	1	6.00	<0.00360	95	70.9 - 129.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.89	mg/Kg	1	2.00	<0.00100	94	72.7 - 129.8	0	20
Toluene	1.93	mg/Kg	1	2.00	<0.00100	96	71.6 - 129.6	1	20
Ethylbenzene	1.97	mg/Kg	1	2.00	<0.00110	98	70.8 - 129.7	3	20
Xylene	5.82	mg/Kg	1	6.00	<0.00360	97	70.9 - 129.4	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.90	1.91	mg/Kg	1	2.00	95	96	65.9 - 132
4-Bromofluorobenzene (4-BFB)	1.80	1.80	mg/Kg	1	2.00	90	90	55.2 - 158.9

Laboratory Control Spike (LCS-1)

QC Batch: 64885
Prep Batch: 55431

Date Analyzed: 2009-10-31
QC Preparation: 2009-10-30

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.7	mg/Kg	1	20.0	<0.482	84	60.5 - 120.1

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	101	mg/Kg	1	100	<2.18	101	85 - 115

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	99.7	mg/Kg	1	100	<2.18	100	85 - 115	2	20

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

Matrix Spike (MS-1) Spiked Sample: 213297

QC Batch: 64842
Prep Batch: 55384

Date Analyzed: 2009-10-29
QC Preparation: 2009-10-29

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	207	mg/Kg	1	250	<5.86	83	35.2 - 167.1

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	206	mg/Kg	1	250	<5.86	82	35.2 - 167.1	0	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	105	106	mg/Kg	1	100	105	106	34.5 - 178.4

Matrix Spike (MS-1) Spiked Sample: 213507

QC Batch: 64884
Prep Batch: 55431

Date Analyzed: 2009-10-31
QC Preparation: 2009-10-30

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.13	mg/Kg	1	2.00	<0.00100	106	58.6 - 165.2
Toluene	2.19	mg/Kg	1	2.00	<0.00100	110	64.2 - 153.8
Ethylbenzene	2.24	mg/Kg	1	2.00	<0.00110	112	61.6 - 159.4
Xylene	6.59	mg/Kg	1	6.00	<0.00360	110	64.4 - 155.3

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

continued ...

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.99	mg/Kg	1	2.00	<0.00100	100	58.6 - 165.2	7	20
Toluene	2.02	mg/Kg	1	2.00	<0.00100	101	64.2 - 153.8	8	20
Ethylbenzene	2.07	mg/Kg	1	2.00	<0.00110	104	61.6 - 159.4	8	20
Xylene	6.08	mg/Kg	1	6.00	<0.00360	101	64.4 - 155.3	8	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.88	1.90	mg/Kg	1	2	94	95	76 - 127.9
4-Bromofluorobenzene (4-BFB)	1.74	1.76	mg/Kg	1	2	87	88	52 - 127.8

Matrix Spike (MS-1) Spiked Sample: 212573

QC Batch: 64885 Date Analyzed: 2009-10-31 Analyzed By: AG
Prep Batch: 55431 QC Preparation: 2009-10-30 Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	13.7	mg/Kg	1	20.0	<0.482	68	12.8 - 175.2

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	16.4	mg/Kg	1	20.0	<0.482	82	12.8 - 175.2	18	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.84	1.83	mg/Kg	1	2	92	92	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	1.62	1.61	mg/Kg	1	2	81	80	31.3 - 161.7

Matrix Spike (MS-1) Spiked Sample: 213304

QC Batch: 64908 Date Analyzed: 2009-11-02 Analyzed By: AR
Prep Batch: 55353 QC Preparation: 2009-10-29 Prepared By: AR

continued ...

Standard (CCV-2)

QC Batch: 64842 Date Analyzed: 2009-10-29 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	230	92	80 - 120	2009-10-29

Standard (CCV-3)

QC Batch: 64842 Date Analyzed: 2009-10-29 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	250	100	80 - 120	2009-10-29

Standard (CCV-1)

QC Batch: 64884 Date Analyzed: 2009-10-31 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0949	95	80 - 120	2009-10-31
Toluene		mg/Kg	0.100	0.0966	97	80 - 120	2009-10-31
Ethylbenzene		mg/Kg	0.100	0.0976	98	80 - 120	2009-10-31
Xylene		mg/Kg	0.300	0.288	96	80 - 120	2009-10-31

Standard (CCV-2)

QC Batch: 64884 Date Analyzed: 2009-10-31 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0966	97	80 - 120	2009-10-31
Toluene		mg/Kg	0.100	0.0982	98	80 - 120	2009-10-31
Ethylbenzene		mg/Kg	0.100	0.0946	95	80 - 120	2009-10-31
Xylene		mg/Kg	0.300	0.288	96	80 - 120	2009-10-31

Standard (CCV-1)

QC Batch: 64885 Date Analyzed: 2009-10-31 Analyzed By: AG

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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	2009-11-02

Standard (ICV-1)

QC Batch: 64910

Date Analyzed: 2009-11-02

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.0	99	85 - 115	2009-11-02

Standard (CCV-1)

QC Batch: 64910

Date Analyzed: 2009-11-02

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2009-11-02

