Leking, Geoffrey R, EMNRD

From: Sent: To: Cc: Subject: Attachments: Bradley Blevins [bradley.blevins@chk.com] Thursday, June 07, 2012 8:36 AM Leking, Geoffrey R, EMNRD Bradley Blevins FW: LOU WORTHAM C #3 H201219 EPI.pdf



30-025-22070

JUN 0 7 2012

Geoff,

RECEIVED

Please find the attached lab data from the samples collected at the Lou Wortham C#3. We have currently excavated and hauled off one foot from inside the firewall, samples were collected from three sample trenches around the battery as seen below in the diagram. We will also haul off the berm material and replace with clean material. Based on the Lab data I would like your approval to backfill the release area. If you have any questions please let me know. Thanks,

Bradley Blevins Chesapeake Energy EH & S Field Specialist DAR Hobbs Field Office North Permian Division Office: (575) 391-1462 x 86424 Cell: (575) 441-0341 Fax: (575)391-6679

approved 43064 Env. Specialist NMOCD-DISTI 6/14/12



From: Celey Keene [mailto:celey.keene@cardinallabsnm.com] Sent: Wednesday, June 06, 2012 1:26 PM To: Daniel Dominguez Cc: Bradley Blevins Subject: LOU WORTHAM C #3

Thank you,

Celey Keene Lab Director Cardinal Laboratories 101 East Marland Hobbs, NM 88240 T: (575) 393-2326 F: (575) 393-2476 e-mail: <u>celey.keene@cardinallabsnm.com</u> HOBBS OCD JUN 0-7 2012 RECEIVED

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 06, 2012

Daniel Dominguez Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231 CHESAPEAKE RE: LOU WORTHAM C #3

HOBBS OCD

JUN 0 7 2012

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Enclosed are the results of analyses for samples received by the laboratory on 05/31/12 7:59.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Hope S. Moreno

Hope Moreno Inorganic Technical Director



92.0

200

3.17

Analytical Results For:

Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	05/31/2012	Sampling Date:	05/30/2012	
Reported:	06/06/2012	Sampling Type:	Soil	
Project Name:	LOU WORTHAM C #3	Sampling Condition:	Cool & Intact	
Project Number:	161947	Sample Received By:	Jodi Henson	
Project Location:	UL-A, SEC. 11 T22S R37E			

Sample ID: ST 1 - (SURFACE) (H201219-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.056	0.050	06/01/2012	ND	2.08	104	2.00	5.71	
Toluene*	0.557	0.050	06/01/2012	ND	1.90	94.9	2.00	4.96	
Ethylbenzene*	0.963	0.050	06/01/2012	ND	1.80	89.9	2.00	5.46	
Total Xylenes*	2.43	0.150	06/01/2012	ND	5.47	91.2	6.00	5.00	
Surrogate: 4-Bromofluorobenzene (PIL	141	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	05/31/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	119	100	05/31/2012	ND	189	94.7	200	0.473	

ND

184

05/31/2012

Cardinal Laboratories

DRO >C10-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Hope S. Moreno

3790

136 %

248 %

100

65.2-140

63.6-154

Hope Moreno, Inorganic Technical Director



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	05/31/2012	Sampling Date:	05/30/2012	
Reported:	06/06/2012	Sampling Type:	Soil	
Project Name:	LOU WORTHAM C #3	Sampling Condition:	Cool & Intact	
Project Number:	161947	Sample Received By:	Jodi Henson	
Project Location:	UL-A, SEC. 11 T22S R37E			

Sample ID: ST 1 - (1') (H201219-02)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	06/01/2012	ND	2.08	104	2.00	5.71	
Toluene*	< 0.050	0.050	06/01/2012	ND	1.90	94.9	2.00	4.96	
Ethylbenzene*	< 0.050	0.050	06/01/2012	ND	1.80	89.9	2.00	5.46	
Total Xylenes*	<0.150	0.150	06/01/2012	ND	5.47	91.2	6.00	5.00	
Surrogate: 4-Bromofluorobenzene (PIL	100 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/31/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			1 A.		6
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2012	ND	189	94.7	200	0.473	
DRO >C10-C28	74.0	10.0	05/31/2012	ND	184	92.0	200	3.17	
Surrogate: 1-Chlorooctane	101 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	125 9	63.6-15	4						

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Hope Moreno, Inorganic Technical Director



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	05/31/2012	Sampling Date:	05/30/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	LOU WORTHAM C #3	Sampling Condition:	Cool & Intact
Project Number:	161947	Sample Received By:	Jodi Henson
Project Location:	UL-A, SEC. 11 T22S R37E		

Sample ID: ST 1 - (2') (H201219-03)

BTEX 8021B	mg/	'kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	06/01/2012	ND	2.08	104	2.00	5.71	
Toluene*	< 0.050	0.050	06/01/2012	ND	1.90	94.9	2.00	4.96	
Ethylbenzene*	< 0.050	0.050	06/01/2012	ND	1.80	89.9	2.00	5.46	
Total Xylenes*	<0.150	0.150	06/01/2012	ND	5.47	91.2	6.00	5.00	
Surrogate: 4-Bromofluorobenzene (PIL	98.8	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2012	ND	189	94.7	200	0.473	
DRO >C10-C28	<10.0	10.0	05/31/2012	ND	184	92.0	200	3.17	
Surrogate: 1-Chlorooctane	102 9	65.2-14	0						e dae ne an der en
Surrogate: 1-Chlorooctadecane	113 9	63.6-15	4						

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Hope Moreno, Inorganic Technical Director



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Received:	05/31/2012	Sampling Date:	05/30/2012	
Reported:	06/06/2012	Sampling Type:	Soil	
Project Name:	LOU WORTHAM C #3	Sampling Condition:	Cool & Intact	
Project Number:	161947	Sample Received By:	Jodi Henson	
Project Location:	UL-A, SEC. 11 T22S R37E			

Sample ID: ST 1 - (3') (H201219-04)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2012	ND	2.08	104	2.00	5.71	
Toluene*	< 0.050	0.050	06/01/2012	ND	1.90	94.9	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/01/2012	ND	1.80	89.9	2.00	5.46	
Total Xylenes*	<0.150	0.150	06/01/2012	ND	5.47	91.2	6.00	5.00	
Surrogate: 4-Bromofluorobenzene (PIL	100 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2012	ND	189	94.7	200	0.473	
DRO >C10-C28	<10.0	10.0	05/31/2012	ND	184	92.0	200	3.17	
Surrogate: 1-Chlorooctane	91.1	65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	63.6-15	4						

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Hope Moreno, Inorganic Technical Director



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Received:	05/31/2012	Sampling Date:	05/30/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	LOU WORTHAM C #3	Sampling Condition:	Cool & Intact
Project Number:	161947	Sample Received By:	Jodi Henson
Project Location:	UL-A, SEC. 11 T22S R37E		

Sample ID: ST 2 - (1') (H201219-05)

BTEX 8021B	mg	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	. Qualifier
Benzene*	< 0.050	0.050	06/01/2012	ND	2.08	104	2.00	5.71	
Toluene*	< 0.050	0.050	06/01/2012	ND	1.90	94.9	2.00	4.96	
Ethylbenzene*	< 0.050	0.050	06/01/2012	ND	1.80	89.9	2.00	5.46	
Total Xylenes*	<0.150	0.150	06/01/2012	ND	5.47	91.2	6.00	5.00	
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2012	ND	189	94.7	200	0.473	
DRO >C10-C28	<10.0	10.0	05/31/2012	ND	184	92.0	200	3.17	
Surrogate: 1-Chlorooctane	109	% 65.2-14	0				6		
Surrogate: 1-Chlorooctadecane	120	% 63.6-15	4						

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Hope Moreno, Inorganic Technical Director



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Received:	05/31/2012	Sampling Date:	05/30/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	LOU WORTHAM C #3	Sampling Condition:	Cool & Intact
Project Number:	161947	Sample Received By:	Jodi Henson
Project Location:	UL-A, SEC. 11 T22S R37E		

Sample ID: ST 2 - (2') (H201219-06)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	06/01/2012	ND	2.08	104	2.00	5.71	
Toluene*	< 0.050	0.050	06/01/2012	ND	1.90	94.9	2.00	4.96	
Ethylbenzene*	< 0.050	0.050	06/01/2012	ND	1.80	89.9	2.00	5.46	
Total Xylenes*	<0.150	0.150	06/01/2012	ND	5.47	91.2	6.00	5.00	
Surrogate: 4-Bromofluorobenzene (PIL	100 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2012	ND	189	94.7	200	0.473	
DRO >C10-C28	<10.0	10.0	05/31/2012	ND	184	92.0	200	3.17	
Surrogate: 1-Chlorooctane	103 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	122 9	63.6-15	4						

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Hope Moreno, Inorganic Technical Director



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	05/31/2012	Sampling Date:	05/30/2012	
Reported:	06/06/2012	Sampling Type:	Soil	
Project Name:	LOU WORTHAM C #3	Sampling Condition:	Cool & Intact	
Project Number:	161947	Sample Received By:	Jodi Henson	
Project Location:	UL-A, SEC. 11 T22S R37E			

Sample ID: ST 2 - (3') (H201219-07)

BTEX 8021B	mg	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	06/01/2012	ND	2.08	104	2.00	5.71	
Toluene*	<0.050	0.050	06/01/2012	ND	1.90	94.9	2.00	4.96	
Ethylbenzene*	< 0.050	0.050	06/01/2012	ND	1.80	89.9	2.00	5.46	
Total Xylenes*	<0.150	0.150	06/01/2012	ND	5.47	91.2	6.00	5.00	
Surrogate: 4-Bromofluorobenzene (PIL	99.2	% 89.4-12	26						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2012	ND	416	104	400	0.00	
TPH 8015M	mg	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2012	ND	189	94.7	200	0.473	
DRO >C10-C28	<10.0	10.0	05/31/2012	ND	184	92.0	200	3.17	
Surrogate: 1-Chlorooctane	109	65.2-14	0	48 L.					
Surrogate: 1-Chlorooctadecane	116 9	63.6-15	4						

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Hope Moreno, Inorganic Technical Director



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	05/31/2012	Sampling Date:	05/30/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	LOU WORTHAM C #3	Sampling Condition:	Cool & Intact
Project Number:	161947	Sample Received By:	Jodi Henson
Project Location:	UL-A, SEC. 11 T22S R37E		

Sample ID: ST 3 - (1') (H201219-08)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2012	ND	2.08	104	2.00	5.71	
Toluene*	<0.050	0.050	06/01/2012	ND	1.90	94.9	2.00	4.96	
Ethylbenzene*	< 0.050	0.050	06/01/2012	ND	1.80	89.9	2.00	5.46	
Total Xylenes*	<0.150	0.150	06/01/2012	ND	5.47	91.2	6.00	5.00	
Surrogate: 4-Bromofluorobenzene (PIL	99.6	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP			×		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/31/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			4		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2012	ND	189	94.7	200	0.473	
DRO >C10-C28	11.6	10.0	05/31/2012	ND	184	92.0	200	3.17	
Surrogate: 1-Chlorooctane	100 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	63.6-15	4						

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Abpe S. Moreno

Hope Moreno, Inorganic Technical Director



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	05/31/2012	Sampling Date:	05/30/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	LOU WORTHAM C #3	Sampling Condition:	Cool & Intact
Project Number:	161947	Sample Received By:	Jodi Henson
Project Location:	UL-A, SEC. 11 T22S R37E		

Sample ID: ST 3 - (2') (H201219-09)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.050	0.050	06/01/2012	ND	2.08	104	2.00	5.71	
Toluene*	< 0.050	0.050	06/01/2012	ND	1.90	94.9	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/01/2012	ND	1.80	89.9	2.00	5.46	
Total Xylenes*	<0.150	0.150	06/01/2012	ND	5.47	91.2	6.00	5.00	
Surrogate: 4-Bromofluorobenzene (PIL	99.3	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/31/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2012	ND	189	94.7	200	0.473	
DRO >C10-C28	<10.0	10.0	05/31/2012	ND	184	92.0	200	3.17	
Surrogate: 1-Chlorooctane	94.3	65.2-14	0			×			
Surrogate: 1-Chlorooctadecane	115 9	63.6-15	4						

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Abpe S. Moreno

Hope Moreno, Inorganic Technical Director



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	05/31/2012	Sampling Date:	05/30/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	LOU WORTHAM C #3	Sampling Condition:	Cool & Intact
Project Number:	161947	Sample Received By:	Jodi Henson
Project Location:	UL-A, SEC. 11 T22S R37E		

Sample ID: ST 3 - (3') (H201219-10)

BTEX 8021B	mg	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2012	ND	2.08	104	2.00	5.71	
Toluene*	< 0.050	0.050	06/01/2012	ND	1.90	94.9	2.00	4.96	
Ethylbenzene*	< 0.050	0.050	06/01/2012	ND	1.80	89.9	2.00	5.46	
Total Xylenes*	<0.150	0.150	06/01/2012	ND	5.47	91.2	6.00	5.00	
Surrogate: 4-Bromofluorobenzene (PIL	99.4	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/31/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2012	ND	189	94.7	200	0.473	
DRO >C10-C28	<10.0	10.0	05/31/2012	ND	184	92.0	200	3.17	
Surrogate: 1-Chlorooctane	101 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	120 9	63.6-15	4						

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Hope Moreno, Inorganic Technical Director



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Notes and Definitions

5-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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