

HUNGRY HORSE, LLC
ENVIRONMENTAL SERVICES

Dirt Work * On-Site Remediation * Soil Testing * Excavation

22Apr11

To: Mike Bratcher, NM OCD Dist II
Terry Gregston, BLM, Carlsbad
Reference: Remediation Work Plan
Operator: Linn Energy
Location: Turner B #47
API: 30-015-05435
NMLC 029395B
Legals: Ul. B, Sec. 29, T17S, R31E

Background Information

The Turner B #47 is located approximately five miles east of Loco Hills, NM south of Highway 82 and west of CR222. This is an active injection well site with a GPS location of N32.8112 W103.8898. The site lies on the side of a steep hill with a shallow draw that feeds into a deep arroyo. The New Mexico Office of the State Engineer lists no data for depth to groundwater for this location. However, the Lea County Depth to Groundwater Map indicates a depth of 300'.

The site ranking score for this site 0 based upon the following information:

Depth to Groundwater	>100'
Distance to Surface Body of Water	>1000'
Wellhead Protection Area	>1000'

Based upon information from BLM, the spill extends outside of previously surveyed areas; an archeological survey will be required for the length of the spill, including a buffer on either of the side of the spill, prior to cleanup activities. Depending on survey results, an archeological monitor may also be required during cleanup activities.

Current Work Completed

Four sample points were chosen for soil sampling with all samples being obtained by use of hand tools. Samples were obtained between 1'-3' BGS. Samples were obtained according to generally accepted industry standards and were transported under chain of custody to Cardinal Lab in Hobbs, NM for analysis. A sketch of the affected area and lab analytical results are included with this proposal.

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Remediation Work Plan Proposal

Due to the "rainy season" for the Permian Basin is fast approaching, speed in the remediation process is of utmost importance. Should a significant rain event happen, contaminants will be carried closer to, if not to, the playa that lies to the west of the release location. This, along with the need for an archeological survey puts the remediation process into a somewhat narrow window.

To speed up the process of getting the actual remediation started I propose to have BLM deploy their archeological assets to the area for completion of the required survey. Based up their findings, we will pursue one of two options: 1) if this is **not** an archeologically sensitive area; Hungry Horse LLC will deploy to the site and immediately begin remediation. 2) If this is an archeologically sensitive area; a BLM approved archeological contractor with be contracted to provide the required personnel to oversee this aspect of the excavation process.

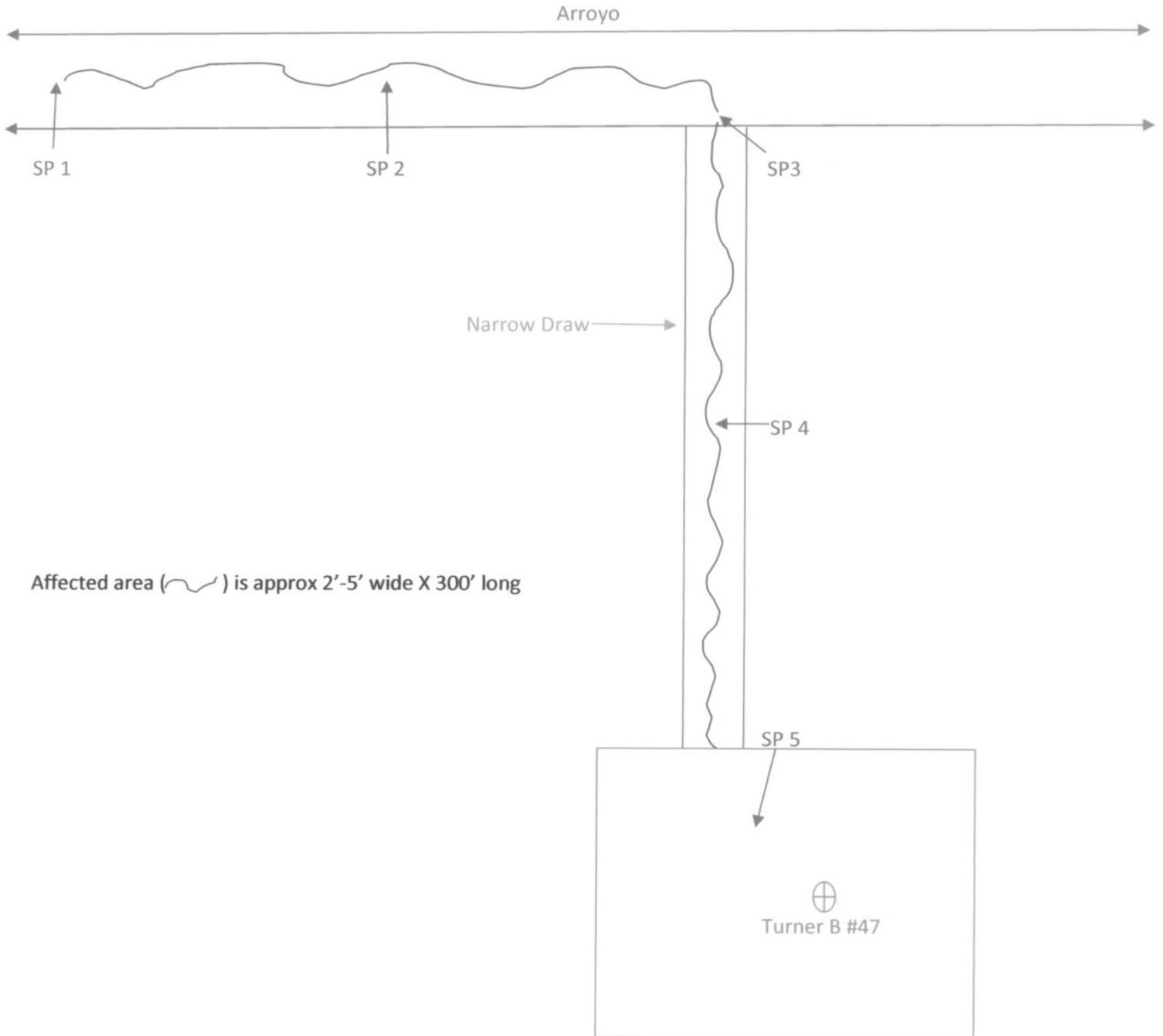
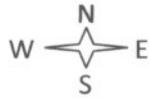
The proposed remediation is to mechanically excavate the affected area to a depth of 4' BGS beginning at the edge of the location following the affected draw to the arroyo and the down the arroyo to the west ending at or near Sample Point (SP) #1. At this point soil samples will be obtained and analyzed for Chlorides, TPH, and BTEX. Results will be presented to NM OCD and BLM for feedback and guidance. At the point that backfilling can begin, clean soil from a BLM approved source will be used for backfill. Should re-seeding be required, a BLM approved seed mixture will be used. Upon completion of this phase of the project excavation will start on the existing well location following the same steps. All excavated material will be transported to a NMOCD approved disposal facility.

This plan will cause the least amount of surface disturbance to the ecologically sensitive area, yet it will result in complete remediation of the affected area.

Sincerely,



Vernon K. Black
HSE
Hungry Horse, LLC
Hobbs, NM
575 631 2253 cell
575 393 3386 office



NOTE: Drawing is only a representation and is not drawn to scale.

Analytical Results For:

 Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 04/11/2011
 Reported: 04/14/2011
 Project Name: TURNER B #47
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/11/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #1 1' BGS (H100724-01)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2011	ND	2.14	107	2.00	1.95		
Toluene*	<0.050	0.050	04/13/2011	ND	2.09	105	2.00	2.16		
Ethylbenzene*	<0.050	0.050	04/13/2011	ND	2.13	106	2.00	2.47		
Total Xylenes*	<0.150	0.150	04/13/2011	ND	6.27	105	6.00	2.25		

Surrogate: 4-Bromofluorobenzene (PIL) 92.4 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	04/13/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/12/2011	ND	223	111	200	3.99		
DRO >C10-C28	18.8	10.0	04/12/2011	ND	227	113	200	8.14		

Surrogate: 1-Chlorooctane 125 % 70-130

Surrogate: 1-Chlorooctadecane 142 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 Received: 04/11/2011
 Reported: 04/14/2011
 Project Name: TURNER B #47
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/11/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #1 3' BGS (H100724-02)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2011	ND	2.14	107	2.00	1.95		
Toluene*	<0.050	0.050	04/13/2011	ND	2.09	105	2.00	2.16		
Ethylbenzene*	<0.050	0.050	04/13/2011	ND	2.13	106	2.00	2.47		
Total Xylenes*	<0.150	0.150	04/13/2011	ND	6.27	105	6.00	2.25		

Surrogate: 4-Bromofluorobenzene (PIL) 93.3 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	04/13/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/12/2011	ND	223	111	200	3.99		
DRO >C10-C28	10.1	10.0	04/12/2011	ND	227	113	200	8.14		

Surrogate: 1-Chlorooctane 120 % 70-130

Surrogate: 1-Chlorooctadecane 127 % 70-130

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 Received: 04/11/2011
 Reported: 04/14/2011
 Project Name: TURNER B #47
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/11/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #2 1' BGS (H100724-03)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2011	ND	2.14	107	2.00	1.95		
Toluene*	<0.050	0.050	04/13/2011	ND	2.09	105	2.00	2.16		
Ethylbenzene*	<0.050	0.050	04/13/2011	ND	2.13	106	2.00	2.47		
Total Xylenes*	<0.150	0.150	04/13/2011	ND	6.27	105	6.00	2.25		

Surrogate: 4-Bromofluorobenzene (PIL) 93.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	04/13/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/12/2011	ND	223	111	200	3.99		
DRO >C10-C28	25.0	10.0	04/12/2011	ND	227	113	200	8.14		

Surrogate: 1-Chlorooctane 134 % 70-130

Surrogate: 1-Chlorooctadecane 146 % 70-130

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 Received: 04/11/2011
 Reported: 04/14/2011
 Project Name: TURNER B #47
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/11/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #2 3' BGS (H100724-04)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2011	ND	2.14	107	2.00	1.95		
Toluene*	<0.050	0.050	04/13/2011	ND	2.09	105	2.00	2.16		
Ethylbenzene*	<0.050	0.050	04/13/2011	ND	2.13	106	2.00	2.47		
Total Xylenes*	<0.150	0.150	04/13/2011	ND	6.27	105	6.00	2.25		

Surrogate: 4-Bromofluorobenzene (PII) 96.2 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	04/13/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/12/2011	ND	223	111	200	3.99		
DRO >C10-C28	13.4	10.0	04/12/2011	ND	227	113	200	8.14		

Surrogate: 1-Chlorooctane 126 % 70-130

Surrogate: 1-Chlorooctadecane 139 % 70-130

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 Reported: 04/14/2011
 Project Name: TURNER B #47
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/11/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #3 1' BGS (H100724-05)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2011	ND	2.14	107	2.00	1.95		
Toluene*	<0.050	0.050	04/13/2011	ND	2.09	105	2.00	2.16		
Ethylbenzene*	<0.050	0.050	04/13/2011	ND	2.13	106	2.00	2.47		
Total Xylenes*	<0.150	0.150	04/13/2011	ND	6.27	105	6.00	2.25		

Surrogate: 4-Bromofluorobenzene (PII) 93.2 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	04/13/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/12/2011	ND	223	111	200	3.99		
DRO >C10-C28	168	10.0	04/12/2011	ND	227	113	200	8.14		

Surrogate: 1-Chlorooctane 123 % 70-130

Surrogate: 1-Chlorooctadecane 134 % 70-130

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 Reported: 04/14/2011
 Project Name: TURNER B #47
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/11/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #4 1' BGS (H100724-06)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2011	ND	2.14	107	2.00	1.95		
Toluene*	<0.050	0.050	04/13/2011	ND	2.09	105	2.00	2.16		
Ethylbenzene*	<0.050	0.050	04/13/2011	ND	2.13	106	2.00	2.47		
Total Xylenes*	<0.150	0.150	04/13/2011	ND	6.27	105	6.00	2.25		

Surrogate: 4-Bromofluorobenzene (PII) 96.2 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	04/13/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/12/2011	ND	223	111	200	3.99		
DRO >C10-C28	11.9	10.0	04/12/2011	ND	227	113	200	8.14		

Surrogate: 1-Chlorooctane 135 % 70-130

Surrogate: 1-Chlorooctadecane 153 % 70-130

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 Received: 04/11/2011
 Reported: 04/14/2011
 Project Name: TURNER B #47
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/11/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #5 1' BGS (H100724-07)

BTX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2011	ND	2.14	107	2.00	1.95		
Toluene*	<0.050	0.050	04/13/2011	ND	2.09	105	2.00	2.16		
Ethylbenzene*	<0.050	0.050	04/13/2011	ND	2.13	106	2.00	2.47		
Total Xylenes*	<0.150	0.150	04/13/2011	ND	6.27	105	6.00	2.25		

Surrogate: 4-Bromofluorobenzene (PIL) 93.0 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	04/13/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/12/2011	ND	223	111	200	3.99		
DRO >C10-C28	78.0	10.0	04/12/2011	ND	227	113	200	8.14		

Surrogate: 1-Chlorooctane 121 % 70-130

Surrogate: 1-Chlorooctadecane 127 % 70-130

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 Received: 04/11/2011
 Reported: 04/14/2011
 Project Name: TURNER B #47
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/11/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #5 3' BGS (H100724-08)

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2011	ND	2.14	107	2.00	1.95	
Toluene*	<0.050	0.050	04/13/2011	ND	2.09	105	2.00	2.16	
Ethylbenzene*	<0.050	0.050	04/13/2011	ND	2.13	106	2.00	2.47	
Total Xylenes*	<0.150	0.150	04/13/2011	ND	6.27	105	6.00	2.25	

Surrogate: 4-Bromofluorobenzene (PIL) 98.8 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	04/13/2011	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/12/2011	ND	223	111	200	3.99	
DRO >C10-C28	<10.0	10.0	04/12/2011	ND	227	113	200	8.14	

Surrogate: 1-Chlorooctane 115 % 70-130

Surrogate: 1-Chlorooctadecane 124 % 70-130

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