

RECEIVED

By JKeyes at 9:20 am, Sep 28, 2015

HUNGRY HORSE, LLC

3709 S. Eunice HWY
P.O. Box 1058
Hobbs, NM 88241
Office: 575-393-3386
Fax: 575-391-4585
info@hungry-horse.com

DIRT WORK * ON-SITE REMEDIATION
SOIL TESTING * EXCAVATION * ELECTRICAL

APPROVED Conditionally
By JKeyes at 9:20 am, Sep 28, 2015

22Sept15

To: Kellie Jones, NM OCD
Shelly Tucker, BLM
Reference: Remediation Work Plan
Operator: Devon Energy Corporation
Location: Tomcat 17 Federal 1
API: 30-025-34690
Legals: UL, P, Sec. 17, T 23S, R 32E
GPS: 32.29907, -103.69030

Stipulations:

1. At SP1 dig 1.5 ft.
2. At SP2 dig 2 ft.
3. (If possible without endangering health and safety) At SP3 dig 3 ft. and take a sample @4ft BGS.

Site History

This site is located Lea County, New Mexico approximately 3.6 miles north of the intersection of Highway 128 and Red Road and 3.3 miles east of Red Road. Based upon the New Mexico Office of State Engineer's website, there is no groundwater data for this Section, Township, and Range. However, the website list data for Section 21, T23S, and R32E, which is southeast of the referenced site, at 400'. The Lea County Depth to Groundwater Map indicates groundwater to be at approximately 450'. This is an active and working facility.

Work Conducted to Date

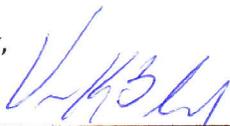
The inside of the battery was delineated on 8Sept15. Due to the safety concern and the presence of piping, tanks, valves and pumps, the delineation was conducted using hand tools and not mechanical equipment. Four sample points were selected and soil samples were obtained from Surface-3' Below Ground Surface. Samples were sent for laboratory analysis of Chlorides, TPH, and BTEX. See the attached lab analysis, charted results, and map of sample points.

Proposed Remediation

Based upon the delineation results, depth to ground, and safety factors of working inside a battery, I propose to hand excavate 1' of contaminated material from the battery in/around Sample Points 1,2, and 4. For the area around Sample Point 3 (point of release), I propose to hand excavate 2' of material. A complete delineation will be conducted at the time the facility is taken out of service.

All impacted material will be transported to a division approved facility for disposal. The battery will then be backfilled with fresh material.

Sincerely,



Vernon K. Black, Hungry Horse, LLC

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company Devon Energy Production	Contact Dan Suniga
Address 6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No. 575.390.5850
Facility Name Tomcat 17 Federal 1	Facility Type Oil
Surface Owner Federal	Mineral Owner Federal
API No. 30-025-34690	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	17	23S	32E	660	FSL	660	FEL	LEA

Latitude: 32.299008 **Longitude:** 106.689833

NATURE OF RELEASE

Type of Release Spill Oil	Volume of Release 90 BBL	Volume Recovered 10 BBL
Source of Release Hole at the bottom of oil tank	Date and Hour of Occurrence 8/26/15 11:00 am	Date and Hour of Discovery 8/26/15 11:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos BLM OCD office	
By Whom? Ray Carter	Date and Hour 8/26/15 11:15 am BLM 8/26/15 11:20 am OCD	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* On 8/26/15 at the Tomcat 17 Fed 1 an oil tank had a hole at the bottom of tank causing a spill all in containment. The well was shut in and a vendor was called out to empty all oil tanks into frac tanks.		
Describe Area Affected and Cleanup Action Taken.* A 90 BBL oil spill and 10 BBL recovered on a 30' X 100' area in unlined containment. An environmental company will be called out to evaluate area.		

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>Jeanette Barron</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Jeanette Barron	Approved by Environmental Specialist:	
Title: Field Admin Support	Approval Date:	Expiration Date:
E-mail Address: Jeanette.barron@dvn.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/28/15 Phone: 575.748.1813		

* Attach Additional Sheets If Necessary



New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Q4: SE

Section(s): 17

Township: 23S

Range: 32E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
 O=orphaned,
 C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02216	CUB	LE		2	2	4	21	23S	32E	625035	3573261*	585	400	185

Average Depth to Water: **400 feet**
 Minimum Depth: **400 feet**
 Maximum Depth: **400 feet**

Record Count: 1

PLSS Search:

Section(s): 21

Township: 23S

Range: 32E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

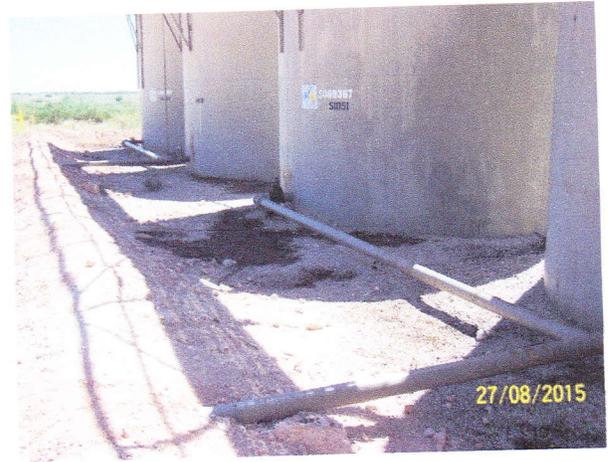
Devon Energy Corporation-Tomcat 17 Fed 1
Delineation Sample Points 8Sept15



Devon-Tomcat 17 Fed 1



Devon-Tomcat 17 Fed 1



Delineation Results

Operator: Devon Energy

Location: Tomcat 17 Fed #1

Date: 8Sept15

All values given in PPM (Parts per Million)

TOTAL PETROLEUM HYDROCARBONS (TPH)

	Surface	1' BGS	2' BGS	3' BGS
SP #1	57040	8845	2950	12
SP #2	75100	15132	ND	185
SP #3	21140	12510	9420	6710
SP #4	17850	1348	22	341

CHLORIDES

	Surface	1' BGS	2' BGS	3' BGS
SP #1	880	160	96	64
SP #2	240	112	96	128
SP #3	656	416	208	208
SP #4	160	64	80	80

Benzene/Total BTEX

	Surface	1' BGS	2' BGS	3' BGS
SP #1	<2/55.3	<.1/2.29	<.5/.95	ND
SP #2	85.4/869	.98/23.1	<.2/.45	.14/5.17
SP #3	1.86/48.5	4.28/113	2.13/106	1.08/33
SP #4	11.9/104	.14/5.14	ND	.05/10.3



September 11, 2015

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: TOMCAT 17 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 09/08/15 11:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 09/08/2015
 Reported: 09/11/2015
 Project Name: TOMCAT 17 FED #1
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

 Sampling Date: 09/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP #1 SURFACE (H502359-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	09/09/2015	ND	1.95	97.6	2.00	0.0323	
Toluene*	6.33	2.00	09/09/2015	ND	1.82	91.0	2.00	0.435	
Ethylbenzene*	8.56	2.00	09/09/2015	ND	1.85	92.6	2.00	0.594	
Total Xylenes*	40.4	6.00	09/09/2015	ND	5.95	99.2	6.00	0.321	
Total BTEX	55.3	12.0	09/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2640	200	09/08/2015	ND	175	87.6	200	1.96		
DRO >C10-C28	54400	200	09/08/2015	ND	188	93.8	200	0.952		

Surrogate: 1-Chlorooctane 195 % 47.2-157

Surrogate: 1-Chlorooctadecane 975 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/08/2015	Sampling Date:	09/08/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	TOMCAT 17 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	LEA COUNTY		

Sample ID: SP #1 1' BGS (H502359-02)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/09/2015	ND	1.95	97.6	2.00	0.0323	
Toluene*	<0.100	0.100	09/09/2015	ND	1.82	91.0	2.00	0.435	
Ethylbenzene*	0.331	0.100	09/09/2015	ND	1.85	92.6	2.00	0.594	
Total Xylenes*	1.96	0.300	09/09/2015	ND	5.95	99.2	6.00	0.321	
Total BTEX	2.29	0.600	09/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	225	200	09/08/2015	ND	175	87.6	200	1.96	
DRO >C10-C28	8620	200	09/08/2015	ND	188	93.8	200	0.952	

Surrogate: 1-Chlorooctane 90.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 169 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 09/08/2015
 Reported: 09/11/2015
 Project Name: TOMCAT 17 FED #1
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

 Sampling Date: 09/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP #1 2' BGS (H502359-03)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2015	ND	1.95	97.6	2.00	0.0323	
Toluene*	<0.050	0.050	09/09/2015	ND	1.82	91.0	2.00	0.435	
Ethylbenzene*	0.145	0.050	09/09/2015	ND	1.85	92.6	2.00	0.594	
Total Xylenes*	0.807	0.150	09/09/2015	ND	5.95	99.2	6.00	0.321	
Total BTEX	0.952	0.300	09/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/08/2015	ND	175	87.6	200	1.96	
DRO >C10-C28	2950	100	09/08/2015	ND	188	93.8	200	0.952	

Surrogate: 1-Chlorooctane 74.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 119 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/08/2015	Sampling Date:	09/08/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	TOMCAT 17 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	LEA COUNTY		

Sample ID: SP #1 3' BGS (H502359-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2015	ND	1.90	94.9	2.00	1.11	
Toluene*	<0.050	0.050	09/10/2015	ND	1.79	89.4	2.00	1.55	
Ethylbenzene*	<0.050	0.050	09/10/2015	ND	1.80	89.8	2.00	0.196	
Total Xylenes*	<0.150	0.150	09/10/2015	ND	5.94	99.0	6.00	0.897	
Total BTEX	<0.300	0.300	09/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2015	ND	175	87.6	200	1.96	
DRO >C10-C28	12.0	10.0	09/09/2015	ND	188	93.8	200	0.952	

Surrogate: 1-Chlorooctane 79.2 % 47.2-157
Surrogate: 1-Chlorooctadecane 88.2 % 52.1-176

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

 Received: 09/08/2015
 Reported: 09/11/2015
 Project Name: TOMCAT 17 FED #1
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

 Sampling Date: 09/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP #2 SURFACE (H502359-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	85.4	20.0	09/10/2015	ND	1.90	94.9	2.00	1.11	
Toluene*	299	20.0	09/10/2015	ND	1.79	89.4	2.00	1.55	
Ethylbenzene*	114	20.0	09/10/2015	ND	1.80	89.8	2.00	0.196	
Total Xylenes*	371	60.0	09/10/2015	ND	5.94	99.0	6.00	0.897	
Total BTEX	869	120	09/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	25500	200	09/09/2015	ND	175	87.6	200	1.96		
DRO >C10-C28	49600	200	09/09/2015	ND	188	93.8	200	0.952		

Surrogate: 1-Chlorooctane 480 % 47.2-157

Surrogate: 1-Chlorooctadecane 782 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/08/2015	Sampling Date:	09/08/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	TOMCAT 17 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	LEA COUNTY		

Sample ID: SP #2 1' BGS (H502359-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.981	0.200	09/11/2015	ND	1.90	94.9	2.00	1.11	
Toluene*	6.19	0.200	09/11/2015	ND	1.79	89.4	2.00	1.55	
Ethylbenzene*	3.05	0.200	09/11/2015	ND	1.80	89.8	2.00	0.196	
Total Xylenes*	12.8	0.600	09/11/2015	ND	5.94	99.0	6.00	0.897	
Total BTEX	23.1	1.20	09/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	532	200	09/09/2015	ND	175	87.6	200	1.96		
DRO >C10-C28	14600	200	09/09/2015	ND	188	93.8	200	0.952		

Surrogate: 1-Chlorooctane 82.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 249 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/08/2015	Sampling Date:	09/08/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	TOMCAT 17 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	LEA COUNTY		

Sample ID: SP #2 2' BGS (H502359-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2015	ND	1.90	94.9	2.00	1.11	
Toluene*	<0.050	0.050	09/10/2015	ND	1.79	89.4	2.00	1.55	
Ethylbenzene*	0.081	0.050	09/10/2015	ND	1.80	89.8	2.00	0.196	
Total Xylenes*	0.377	0.150	09/10/2015	ND	5.94	99.0	6.00	0.897	
Total BTEX	0.457	0.300	09/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2015	ND	175	87.6	200	1.96	
DRO >C10-C28	<10.0	10.0	09/09/2015	ND	188	93.8	200	0.952	

Surrogate: 1-Chlorooctane 75.2 % 47.2-157
Surrogate: 1-Chlorooctadecane 88.7 % 52.1-176

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Analytical Results For:

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

 Received: 09/08/2015
 Reported: 09/11/2015
 Project Name: TOMCAT 17 FED #1
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

 Sampling Date: 09/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP #2 3' BGS (H502359-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.148	0.050	09/10/2015	ND	1.90	94.9	2.00	1.11	
Toluene*	0.964	0.050	09/10/2015	ND	1.79	89.4	2.00	1.55	
Ethylbenzene*	0.722	0.050	09/10/2015	ND	1.80	89.8	2.00	0.196	
Total Xylenes*	3.33	0.150	09/10/2015	ND	5.94	99.0	6.00	0.897	
Total BTEX	5.17	0.300	09/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	18.5	10.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	166	10.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane 75.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.4 % 52.1-176

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Analytical Results For:

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

Received:	09/08/2015	Sampling Date:	09/08/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	TOMCAT 17 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	LEA COUNTY		

Sample ID: SP #3 SURFACE (H502359-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.86	1.00	09/10/2015	ND	1.90	94.9	2.00	1.11	
Toluene*	12.3	1.00	09/10/2015	ND	1.79	89.4	2.00	1.55	
Ethylbenzene*	6.63	1.00	09/10/2015	ND	1.80	89.8	2.00	0.196	
Total Xylenes*	27.8	3.00	09/10/2015	ND	5.94	99.0	6.00	0.897	
Total BTEX	48.5	6.00	09/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1740	200	09/09/2015	ND	178	88.9	200	0.999		
DRO >C10-C28	19400	200	09/09/2015	ND	198	99.1	200	0.360		

Surrogate: 1-Chlorooctane 168 % 47.2-157

Surrogate: 1-Chlorooctadecane 344 % 52.1-176

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Analytical Results For:

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

 Received: 09/08/2015
 Reported: 09/11/2015
 Project Name: TOMCAT 17 FED #1
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

 Sampling Date: 09/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP #3 1' BGS (H502359-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.28	2.00	09/10/2015	ND	1.90	94.9	2.00	1.11	
Toluene*	29.2	2.00	09/10/2015	ND	1.79	89.4	2.00	1.55	
Ethylbenzene*	15.4	2.00	09/10/2015	ND	1.80	89.8	2.00	0.196	
Total Xylenes*	63.7	6.00	09/10/2015	ND	5.94	99.0	6.00	0.897	
Total BTEX	113	12.0	09/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2580	200	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	9930	200	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane 140 % 47.2-157

Surrogate: 1-Chlorooctadecane 174 % 52.1-176

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 Fax To: (505) 391-4585

 Received: 09/08/2015
 Reported: 09/11/2015
 Project Name: TOMCAT 17 FED #1
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

 Sampling Date: 09/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP #3 2' BGS (H502359-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.13	0.200	09/11/2015	ND	1.90	94.9	2.00	1.11	
Toluene*	19.5	0.200	09/11/2015	ND	1.79	89.4	2.00	1.55	
Ethylbenzene*	14.8	0.200	09/11/2015	ND	1.80	89.8	2.00	0.196	
Total Xylenes*	69.7	0.600	09/11/2015	ND	5.94	99.0	6.00	0.897	
Total BTEX	106	1.20	09/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2470	200	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	6950	200	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane 130 % 47.2-157

Surrogate: 1-Chlorooctadecane 136 % 52.1-176

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Analytical Results For:

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

 Received: 09/08/2015
 Reported: 09/11/2015
 Project Name: TOMCAT 17 FED #1
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

 Sampling Date: 09/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP #3 3' BGS (H502359-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.08	1.00	09/10/2015	ND	1.90	94.9	2.00	1.11	
Toluene*	5.07	1.00	09/10/2015	ND	1.79	89.4	2.00	1.55	
Ethylbenzene*	6.03	1.00	09/10/2015	ND	1.80	89.8	2.00	0.196	
Total Xylenes*	20.9	3.00	09/10/2015	ND	5.94	99.0	6.00	0.897	
Total BTEX	33.0	6.00	09/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1480	200	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	5230	200	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 124 % 52.1-176

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

 Received: 09/08/2015
 Reported: 09/11/2015
 Project Name: TOMCAT 17 FED #1
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

 Sampling Date: 09/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP #4 SURFACE (H502359-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.9	1.00	09/10/2015	ND	1.90	94.9	2.00	1.11	
Toluene*	36.6	1.00	09/10/2015	ND	1.79	89.4	2.00	1.55	
Ethylbenzene*	11.1	1.00	09/10/2015	ND	1.80	89.8	2.00	0.196	
Total Xylenes*	44.5	3.00	09/10/2015	ND	5.94	99.0	6.00	0.897	
Total BTEX	104	6.00	09/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1850	200	09/09/2015	ND	178	88.9	200	0.999		
DRO >C10-C28	16000	200	09/09/2015	ND	198	99.1	200	0.360		

Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 240 % 52.1-176

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

 Received: 09/08/2015
 Reported: 09/11/2015
 Project Name: TOMCAT 17 FED #1
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

 Sampling Date: 09/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP #4 1' BGS (H502359-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.146	0.100	09/10/2015	ND	1.90	94.9	2.00	1.11	
Toluene*	1.18	0.100	09/10/2015	ND	1.79	89.4	2.00	1.55	
Ethylbenzene*	0.766	0.100	09/10/2015	ND	1.80	89.8	2.00	0.196	
Total Xylenes*	3.05	0.300	09/10/2015	ND	5.94	99.0	6.00	0.897	
Total BTEX	5.14	0.600	09/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	188	100	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	1160	100	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane 55.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 120 % 52.1-176

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 Received: 09/08/2015
 Reported: 09/11/2015
 Project Name: TOMCAT 17 FED #1
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

 Sampling Date: 09/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SP #4 2' BGS (H502359-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2015	ND	1.90	94.9	2.00	1.11		
Toluene*	<0.050	0.050	09/10/2015	ND	1.79	89.4	2.00	1.55		
Ethylbenzene*	<0.050	0.050	09/10/2015	ND	1.80	89.8	2.00	0.196		
Total Xylenes*	<0.150	0.150	09/10/2015	ND	5.94	99.0	6.00	0.897		
Total BTEX	<0.300	0.300	09/10/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/09/2015	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/09/2015	ND	178	88.9	200	0.999		
DRO >C10-C28	22.3	10.0	09/09/2015	ND	198	99.1	200	0.360		

Surrogate: 1-Chlorooctane 78.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 79.5 % 52.1-176

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 P.O. Box 1058
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 Fax To: (505) 391-4585

Received:	09/08/2015	Sampling Date:	09/08/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	TOMCAT 17 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	LEA COUNTY		

Sample ID: SP #4 3' BGS (H502359-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.050	0.050	09/10/2015	ND	1.90	94.9	2.00	1.11	
Toluene*	1.22	0.050	09/10/2015	ND	1.79	89.4	2.00	1.55	
Ethylbenzene*	1.54	0.050	09/10/2015	ND	1.80	89.8	2.00	0.196	
Total Xylenes*	7.51	0.150	09/10/2015	ND	5.94	99.0	6.00	0.897	
Total BTEX	10.3	0.300	09/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	44.4	10.0	09/09/2015	ND	178	88.9	200	0.999	
DRO >C10-C28	297	10.0	09/09/2015	ND	198	99.1	200	0.360	

Surrogate: 1-Chlorooctane 81.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.5 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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



Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: Hungry Horse, LLC Project Manager: Vernon K. Black Address: PO Box 1058 City: Hobbs State: NM Zip: 88241 Phone #: 575-631-2253 Fax #: 575-391-4585 Project #: Project Owner: Devon Project Name: Tonnet 17 Fed #1 Project Location: Leclanaty Sampler Name: Vernon K. Black		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:	
FOR LAB USE ONLY Lab I.D.: H502359 Sample I.D.: Inside Bakery 1 SP#1 Surfer 2' BGS 3' BGS SP#2 Surfer 1' BGS 2' BGS 3' BGS		MATRIX (G)RAB OR (C)OMP. <input checked="" type="checkbox"/> # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	
DATE 8/21/08 TIME 1:47 PM ANALYSIS REQUEST TPH BTEX Chlorides		REMARKS: 1.80 15.1	

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Relinquished By: _____ Date: 8/21/08
 Received By: Andy Garcia
 Date: 8/21/08 Time: 1:47 PM
 Sample Condition: Yes No
 Cool Contact: Yes No
 CHECKED BY: (Initials) AG
 Phone Result: Yes No
 Fax Result: Yes No
 Add'l Phone #: _____
 Add'l Fax #: _____



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

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Company Name: Hungry Horse, LLC Project Manager: Vernon K. Black Address: PO Box 1058 City: Hobbs State: NM Zip: 88241 Phone #: 575-631-2253 Fax #: 575-391-4585 Project #: Project Owner: Devon Project Name: Tomcat Fed #1 Project Location: Leelanthy Sampler Name: Vernon K. Black		P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:	
FOR LAB USE ONLY		BILL TO	
Lab I.D. Sample I.D.		ANALYSIS REQUEST	
H502359 9. SP#43 Surfers 10. 1' BGS 11. 2' BGS 12. 3' BGS 13. SP#4 Surfers 14. 1' BGS 15. 2' BGS 16. 3' BGS	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING DATE TIME	TRH BTEX Chlorides
Relinquished By: [Signature] Date: 8/20/02 Time: 1:47		Received By: [Signature] Date: 8/20/02 Time: 1:47	
Delivered By: (Circle One) Sample - UPS - Bus - Other:		CHECKED BY: [Signature] Sample Condition <input type="checkbox"/> Copol <input type="checkbox"/> Impact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
REMARKS:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476