



December 15, 2014

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ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Subject: **Soil Assessment and Remediation Work Plan**
Devon Energy
Tomcat 21 Federal No. 1
API #: 30-025-33356
1RP-7-14-3193

Dear Dr. Oberding:

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Incident Date

October 24, 2014

Background Information

The Tomcat 21 Federal No. 1 is located approximately thirty-one (31) miles northwest of Jal in Lea County, New Mexico. The legal location for this site is Section 21, Township 23 South, and Range 32 East. More specifically the latitude and longitude for the release are 32.2916866 North and -103.6816595 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Pyote and Maljamar fine sands. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian sands and piedmont deposits. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S21-T23S-R34E. The ground water in Section 21 is reported to be at depth of 400' below ground surface (bgs). See [Appendix II](#) for the referenced groundwater data.

The ranking for this site is 0 based on the following:

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Incident Description

On July 23, 2014 an 11-inch transfer line between the Tomcat 21 and Diamondtail SWD split causing a release of 70 barrels of produced water. The wells flowing into the SWD were shut-in until repairs were completed. A vac truck was immediately called to the location and recovered 40 barrels of fluid. The area affected is located west of the battery in the pasture, measuring 85-feet long by 50-feet wide. See site plan in [Appendix I](#).

Actions Taken

On December 5, 2014 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 4-feet below ground surface.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per Method SM4500Cl-B.

Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

December 9, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	<0.300	32	<10	40.9
	1'	<0.300	<16	<10	<10
	2'	<0.300	112	<10	<10
	3'	<0.300	320	<10	<10
S-2	0'	<0.300	352	<10	<10
Refusal	0.5'	<0.300	1470	<10	<10
S-3	0'	<0.300	12900	<10	<10
	1'	<0.300	208	<10	<10
	2'	<0.300	400	<10	<10
	3'	<0.300	512	<10	<10
S-4	0'	<0.300	32	<10	<10
	1'	<0.300	112	<10	<10
	2'	<0.300	208	<10	<10
	3'	<0.300	784	<10	<10

December 9, 2014, cont.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-5	0'	<0.300	192	<10	96.3
	1'	<0.300	3000	<10	<10
	2'	<0.300	1800	<10	<10
	3'	<0.300	1920	<10	<10
S-6	0'	<0.300	9730	<50	4110
	1'	<0.300	7680	<50	795
	2'	<0.300	5760	<10	15.3
	3'	<0.300	8240	<10	<10
	4'	<0.300	12700	<10	<10


Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 5,000 mg/kg for TPH. The chloride remediation standard is considered to be 1,000 mg/kg based upon a water table depth greater than 100-feet deep.

Proposed Remedial Actions

- The impacted area in the vicinity of sample point S-2 will be excavated to a depth of 1-foot deep. The impacted area at sample point S-3 will be excavated to a depth of 0.5-feet deep.
- The impacted area in the vicinity of sample point S-5 will be excavated to a depth of 4-feet deep.
- The area in the vicinity of sample point S-6 will be excavated to a depth of 4-feet deep and a 20 mil liner will be installed into the bottom of the excavation.
- All the contaminated soil will be transported to an approved disposal facility.
- The excavated areas will be backfilled with locally obtained backfill/sand and seeded with the recommended BLM seed mixture.
- A final closure report documenting all remedial actions and analytical results will be provided to the NMOCD Hobbs Office and the BLM along with a Final C-141 Form.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,



Kimberly M. Wilson
Project Manager



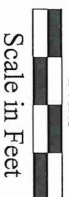
David J. Adkins
District Manager

APPENDIX I

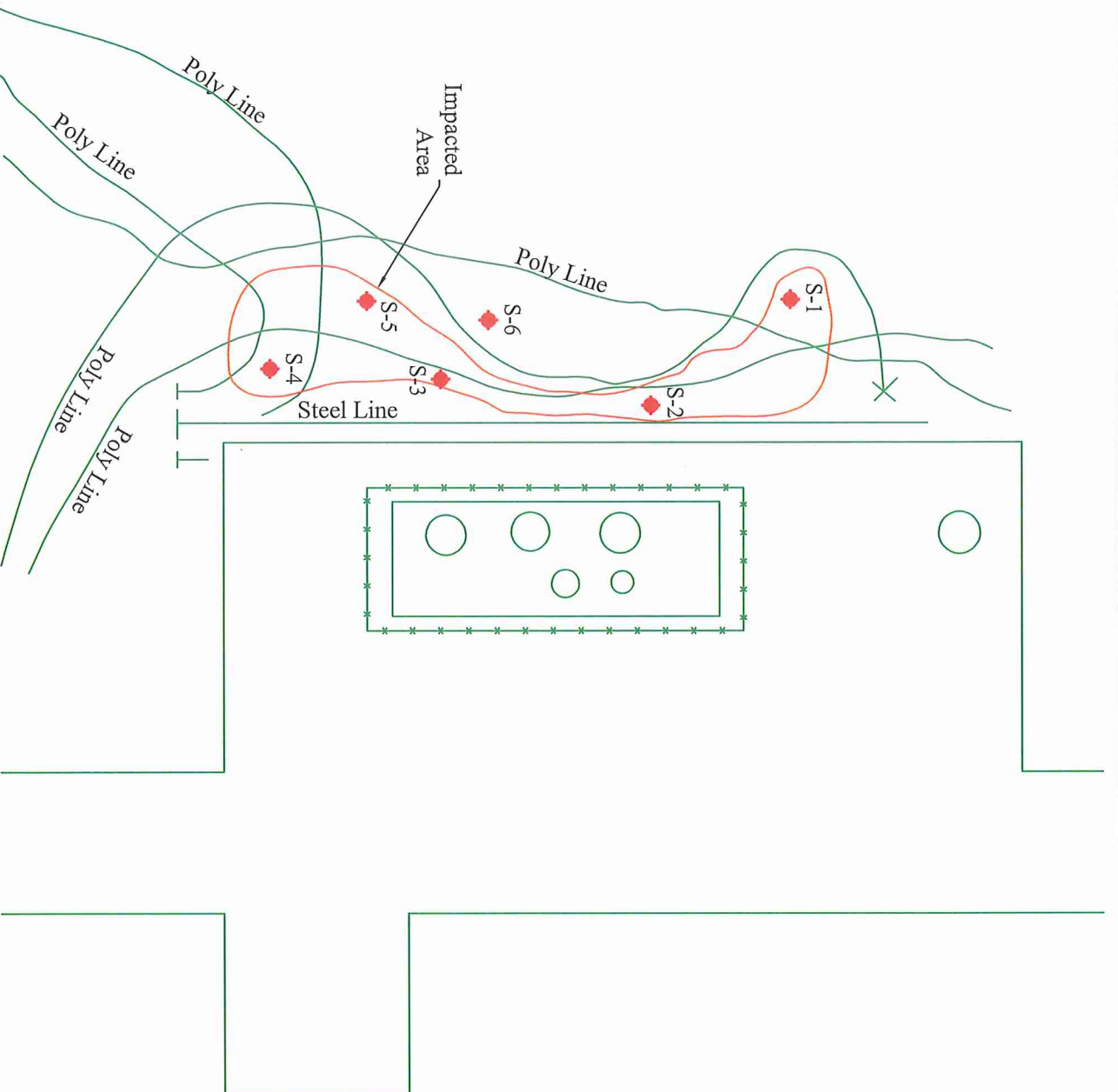
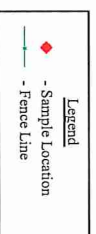
SITE MAP



NTS



Scale in Feet



Date: 12/10/2014

Scale: NTS

Drawn By: TJS

Tom Cat 21 Fed #1
Devon Energy Corporation
Lea County, New Mexico
Figure 1 - Site Plan

APPENDIX II
GROUNDWATER 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	Distance	Depth Well	Depth Water	Water Column
C 02216	CUB	LE		2	2	4	21	23S	32E	625035	3573261*	1350	585	400	185
C 03529 POD1	C	LE		2	4	3	29	23S	32E	622651	3571212	2880	550		

Average Depth to Water: 400 feet

Minimum Depth: 400 feet

Maximum Depth: 400 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 623818

Northing (Y): 3573846

Radius: 3000

*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.

APPENDIX III
LABORATORY RESULTS

December 09, 2014

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TOM CAT 21 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 12/08/14 11:55.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 12/08/2014
 Reported: 12/09/2014
 Project Name: TOM CAT 21 FED #1
 Project Number: 700794.138.01
 Project Location: F-21-23-32

 Sampling Date: 12/05/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H403731-01)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80	
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71	
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71	
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19	
Total BTX	<0.300	0.300	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/08/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2014	ND	206	103	200	2.40	
DRO >C10-C28	40.9	10.0	12/08/2014	ND	190	95.2	200	0.388	


Surrogate: 1-Chlorooctane 92.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H403731-02)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80	
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71	
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71	
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19	
Total BTX	<0.300	0.300	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/08/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2014	ND	206	103	200	2.40	
DRO >C10-C28	<10.0	10.0	12/08/2014	ND	190	95.2	200	0.388	

Surrogate: 1-Chlorooctane 91.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.9 % 52.1-176

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*=Accredited Analyte

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Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 2' (H403731-03)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80	
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71	
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71	
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19	
Total BTX	<0.300	0.300	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

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	12/08/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2014	ND	206	103	200	2.40	
DRO >C10-C28	<10.0	10.0	12/08/2014	ND	190	95.2	200	0.388	

Surrogate: 1-Chlorooctane 90.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.7 % 52.1-176

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Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 3' (H403731-04)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80		
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71		
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71		
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19		
Total BTEX	<0.300	0.300	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 61-154

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	320	16.0	12/08/2014	ND	416	104	400	3.92			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	12/08/2014	ND	206	103	200	2.40			
DRO >C10-C28	<10.0	10.0	12/08/2014	ND	190	95.2	200	0.388			

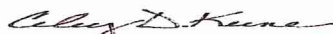
Surrogate: 1-Chlorooctane 91.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.1 % 52.1-176

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Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H403731-05)

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	12/08/2014	ND	1.85	92.7	2.00	5.80		
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71		
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71		
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19		
Total BTEX	<0.300	0.300	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	12/08/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/08/2014	ND	206	103	200	2.40		
DRO >C10-C28	<10.0	10.0	12/08/2014	ND	190	95.2	200	0.388		

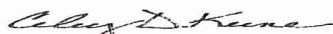
Surrogate: 1-Chlorooctane 92.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0.5' REFUSAL (H403731-06)

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	12/08/2014	ND	1.85	92.7	2.00	5.80		
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71		
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71		
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19		
Total BTEX	<0.300	0.300	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 61-154

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1470	16.0	12/08/2014	ND	416	104	400	3.92			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	12/08/2014	ND	206	103	200	2.40			
DRO >C10-C28	<10.0	10.0	12/08/2014	ND	190	95.2	200	0.388			

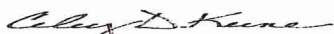
Surrogate: 1-Chlorooctane 93.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 0' (H403731-07)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80	
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71	
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71	
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19	
Total BTX	<0.300	0.300	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12900	16.0	12/08/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2014	ND	206	103	200	2.40	
DRO >C10-C28	<10.0	10.0	12/08/2014	ND	190	95.2	200	0.388	

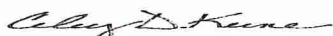
Surrogate: 1-Chlorooctane 85.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.1 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' (H403731-08)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80	
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71	
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71	
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19	
Total BTX	<0.300	0.300	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 61-154

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	12/08/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2014	ND	206	103	200	2.40	
DRO >C10-C28	<10.0	10.0	12/08/2014	ND	190	95.2	200	0.388	


Surrogate: 1-Chlorooctane 90.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.7 % 52.1-176

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Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 2' (H403731-09)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80	
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71	
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71	
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19	
Total BTX	<0.300	0.300	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/08/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2014	ND	206	103	200	2.40	
DRO >C10-C28	<10.0	10.0	12/08/2014	ND	190	95.2	200	0.388	

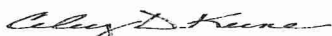
Surrogate: 1-Chlorooctane 87.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.7 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 3' (H403731-10)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80		
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71		
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71		
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19		
Total BTX	<0.300	0.300	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 61-154

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	512	16.0	12/08/2014	ND	416	104	400	3.92			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	12/08/2014	ND	206	103	200	2.40			
DRO >C10-C28	<10.0	10.0	12/08/2014	ND	190	95.2	200	0.388			

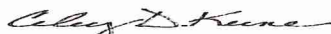
Surrogate: 1-Chlorooctane 91.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.4 % 52.1-176

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Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 0' (H403731-11)

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	12/08/2014	ND	1.85	92.7	2.00	5.80		
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71		
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71		
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19		
Total BTEX	<0.300	0.300	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 61-154

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	32.0	16.0	12/08/2014	ND	416	104	400	3.92			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	12/08/2014	ND	206	103	200	2.40			
DRO >C10-C28	<10.0	10.0	12/08/2014	ND	190	95.2	200	0.388			

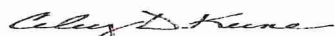
Surrogate: 1-Chlorooctane 81.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.9 % 52.1-176

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Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 1' (H403731-12)

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	12/08/2014	ND	1.85	92.7	2.00	5.80		
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71		
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71		
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19		
Total BTEX	<0.300	0.300	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 61-154

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	12/08/2014	ND	416	104	400	3.92			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	12/09/2014	ND	206	103	200	2.40			
DRO >C10-C28	<10.0	10.0	12/09/2014	ND	190	95.2	200	0.388			

Surrogate: 1-Chlorooctane 82.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.8 % 52.1-176

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Analytical Results For:

 TALON LPE
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 12/08/2014
 Reported: 12/09/2014
 Project Name: TOM CAT 21 FED #1
 Project Number: 700794.138.01
 Project Location: F-21-23-32

 Sampling Date: 12/05/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 2' (H403731-13)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80	
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71	
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71	
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19	
Total BTX	<0.300	0.300	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

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	12/08/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/09/2014	ND	206	103	200	2.40	
DRO >C10-C28	<10.0	10.0	12/09/2014	ND	190	95.2	200	0.388	

Surrogate: 1-Chlorooctane 87.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.4 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 3' (H403731-14)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80	
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71	
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71	
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19	
Total BTX	<0.300	0.300	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	12/08/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/09/2014	ND	206	103	200	2.40	
DRO >C10-C28	<10.0	10.0	12/09/2014	ND	190	95.2	200	0.388	

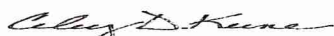
Surrogate: 1-Chlorooctane 87.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.3 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 0' (H403731-15)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80	
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71	
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71	
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19	
Total BTX	<0.300	0.300	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/08/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/09/2014	ND	206	103	200	2.40	
DRO >C10-C28	96.3	10.0	12/09/2014	ND	190	95.2	200	0.388	

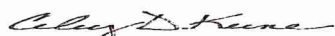
Surrogate: 1-Chlorooctane 90.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 108 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 1' (H403731-16)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80		
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71		
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71		
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19		
Total BTX	<0.300	0.300	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 61-154

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	3000	16.0	12/08/2014	ND	416	104	400	3.92			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	12/09/2014	ND	206	103	200	2.40			
DRO >C10-C28	<10.0	10.0	12/09/2014	ND	190	95.2	200	0.388			

Surrogate: 1-Chlorooctane 84.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.6 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 2' (H403731-17)

BTX 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	12/08/2014	ND	1.85	92.7	2.00	5.80		
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71		
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71		
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19		
Total BTX	<0.300	0.300	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	12/09/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/09/2014	ND	206	103	200	2.40		
DRO >C10-C28	<10.0	10.0	12/09/2014	ND	190	95.2	200	0.388		

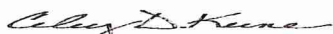
Surrogate: 1-Chlorooctane 75.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 82.9 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 3' (H403731-18)

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	12/08/2014	ND	1.85	92.7	2.00	5.80		
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71		
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71		
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19		
Total BTEX	<0.300	0.300	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 61-154

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1920	16.0	12/09/2014	ND	416	104	400	3.92			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	12/09/2014	ND	206	103	200	2.40			
DRO >C10-C28	<10.0	10.0	12/09/2014	ND	190	95.2	200	0.388			

Surrogate: 1-Chlorooctane 82.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.5 % 52.1-176

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Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 0' (H403731-19)

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	12/08/2014	ND	1.85	92.7	2.00	5.80		
Toluene*	<0.050	0.050	12/08/2014	ND	1.83	91.5	2.00	5.71		
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.74	87.1	2.00	6.71		
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.38	89.6	6.00	6.19		
Total BTEX	<0.300	0.300	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	9730	16.0	12/09/2014	ND	416	104	400	3.92			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	12/09/2014	ND	206	103	200	2.40			
DRO >C10-C28	4110	50.0	12/09/2014	ND	190	95.2	200	0.388			

Surrogate: 1-Chlorooctane 90.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 162 % 52.1-176

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Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 1' (H403731-20)

BTX 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	12/09/2014	ND	1.85	92.7	2.00	5.80		
Toluene*	<0.050	0.050	12/09/2014	ND	1.83	91.5	2.00	5.71		
Ethylbenzene*	<0.050	0.050	12/09/2014	ND	1.74	87.1	2.00	6.71		
Total Xylenes*	<0.150	0.150	12/09/2014	ND	5.38	89.6	6.00	6.19		
Total BTX	<0.300	0.300	12/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 61-154

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	7680	16.0	12/09/2014	ND	416	104	400	3.92			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	12/09/2014	ND	206	103	200	2.40			
DRO >C10-C28	795	50.0	12/09/2014	ND	190	95.2	200	0.388			

Surrogate: 1-Chlorooctane 88.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 129 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 2' (H403731-21)

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	12/09/2014	ND	1.93	96.3	2.00	2.53		
Toluene*	<0.050	0.050	12/09/2014	ND	1.91	95.6	2.00	2.30		
Ethylbenzene*	<0.050	0.050	12/09/2014	ND	1.84	92.0	2.00	2.10		
Total Xylenes*	<0.150	0.150	12/09/2014	ND	5.66	94.4	6.00	1.89		
Total BTEX	<0.300	0.300	12/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 61-154

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	5760	16.0	12/09/2014	ND	416	104	400	3.92			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	12/08/2014	ND	198	99.1	200	0.392			
DRO >C10-C28	15.3	10.0	12/08/2014	ND	200	99.8	200	2.79			

Surrogate: 1-Chlorooctane 139 % 47.2-157

Surrogate: 1-Chlorooctadecane 155 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 3' (H403731-22)

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	12/09/2014	ND	1.93	96.3	2.00	2.53	
Toluene*	<0.050	0.050	12/09/2014	ND	1.91	95.6	2.00	2.30	
Ethylbenzene*	<0.050	0.050	12/09/2014	ND	1.84	92.0	2.00	2.10	
Total Xylenes*	<0.150	0.150	12/09/2014	ND	5.66	94.4	6.00	1.89	
Total BTEX	<0.300	0.300	12/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8240	16.0	12/09/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2014	ND	198	99.1	200	0.392	
DRO >C10-C28	<10.0	10.0	12/08/2014	ND	200	99.8	200	2.79	

Surrogate: 1-Chlorooctane 133 % 47.2-157

Surrogate: 1-Chlorooctadecane 149 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/08/2014
Reported: 12/09/2014
Project Name: TOM CAT 21 FED #1
Project Number: 700794.138.01
Project Location: F-21-23-32

Sampling Date: 12/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 4' (H403731-23)

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	12/09/2014	ND	1.93	96.3	2.00	2.53	
Toluene*	<0.050	0.050	12/09/2014	ND	1.91	95.6	2.00	2.30	
Ethylbenzene*	<0.050	0.050	12/09/2014	ND	1.84	92.0	2.00	2.10	
Total Xylenes*	<0.150	0.150	12/09/2014	ND	5.66	94.4	6.00	1.89	
Total BTEX	<0.300	0.300	12/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12700	16.0	12/09/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2014	ND	198	99.1	200	0.392	
DRO >C10-C28	<10.0	10.0	12/08/2014	ND	200	99.8	200	2.79	


Surrogate: 1-Chlorooctane 130 % 47.2-157

Surrogate: 1-Chlorooctadecane 144 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

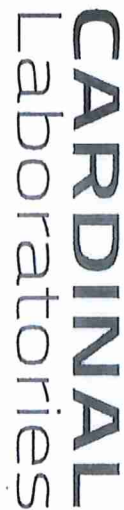
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*=Accredited Analyte

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Celest 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

Page 1 of 3

Company Name: Talon/LPE				P.O. #:				ANALYSIS REQUEST															
Project Manager: Kim Wilson				Company: Talon																			
Address: 408 W. Texas Ave.				Attn:																			
City: Artesia				State: NM Zip: 88210																			
Phone #: 575-746-8768				Fax #: 575-746-8905				Address:															
Project #: 700794/188/01				Project Owner: Decon				City:															
Project Name: Jm Oct 21 2nd #1				State: Zip:																			
Project Location: F-21-23-32				Phone #:																			
Sample Name: Gaber Buaya				Fax #:																			
FOR LAB USE ONLY				MATRIX				PRESERV/ SAMPLING															
Lab I.D. Sample I.D.				(G)RAB OR (C)OMP.		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :	
				# CONTAINERS																			
H4057131				1 5-1 0'		5																	
				2 3-1 0'		5																	
				3 5-1 2'		5																	
				4 5-1 3'		5																	
				5 5-2 0'		5																	
				6 5-2 0.5' refusal		5																	
				7 3-3 0'		5																	
				8 5-3 1'		5																	
				9 5-3 2'		5																	
				10 5-3 3'		5																	

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Relinquished By: [Signature] Received By: [Signature]

Time: 11:55 Date: 11-23-01

Delivered By: (Circle One) Sample Condition CHECKED BY: (Initials)

Sampler - UPS - Bus - Other: Cool ☒ Intact ☒ Yes ☒ No ☒ Yes ☒ No ☒

5.22

REMARKS: RUSH !!

Phone Result: ☐ Yes ☐ No Add'l Phone #: Add'l Fax #: Fax Result: ☐ Yes ☐ No



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

Page 2 of 3

Company Name: Talon/LPE		P.O. #:		ANALYSIS REQUEST	
Project Manager: Kim Williams		Company: Talon			
Address: 408 W. Texas Ave.		Attn:			
City: Artesia		Address:			
Phone #: 575-746-8768		City:			
Fax #: 575-746-8905		State:			
Project #: 700794.138.01		Zip:			
Project Name: Dem B & C Bed #1		Phone #:			
Project Location: F-21-23-32		Fax #:			
Sampler Name: Gabe Barga					
FOR LAB USE ONLY					
Lab I.D.		Sample I.D.			
HHD3731		(G)RAB OR (C)OMP.			
		# CONTAINERS			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER :			
		ACID/BASE:			
		ICE / COOL			
		OTHER :			
		DATE			
		TIME			
11 9-4 0'		12/5/15 12:05		Chlorides	
12 5-4 1'		12:19		TPH	
13 5-4 2'		12:22		BTEX	
14 5-4 3'		12:25			
15 5-5 0'		12:30			
16 5-5 1'		12:33			
17 5-5 2'		12:35			
18 5-5 3'		12:40			
19 5-6 0'		12:55			
PC					
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Relinquished By: [Signature]		Received By: [Signature]			
Relinquished By: [Signature]		Received By: [Signature]			
Date: 12/4/14		Date: 12/4/14			
Time: 11:55		Time: 11:55			
Delivered By: (Circle One)		Sample Condition		CHECKED BY: [Signature]	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>			
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>			
		No <input type="checkbox"/> No <input type="checkbox"/>			
		REMARKS:			
		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Add'l Phone #:	
		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Add'l Fax #:	



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