

October 30, 2014

AMARILLO

921 North Bivins Amarillo, Texas 79107 Phone 806,467,0607

Fax 806.467.0622

Mr. Mike Bratcher **NMOCD District 2**

811 S. 1st Street Artesia, NM 88210

Subject:

Soil Assessment and Remediation Work Plan

Oxy Permian LTD ARTESIA

McMillan 24 State #2 Battery 30-015-32336 2RP-2503

408 West Texas Ave. Artesia, New Mexico 88210 Phone 575,746,8768 Fax 575.746.8905

Dear Mr. Bratcher,

HOBBS 318 East Taylor Street Hobbs, New Mexico 88240

Phone 575.393.4261 Fax 575.393,4658 Oxy Permian LTD (Oxy) 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

MIDLAND 2901 State Hwy 349

Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180 September 10, 2014

Background Information

OKLAHOMA CITY 7700 North Hudson Avenue Suite 10 Oklahoma City, Oklahoma 73II6 Phone 405.486.7030 Fax 806.467.0622

The McMillan 24 State #2 Battery is located approximately thirty-one (31) miles Southeast of Artesia, New Mexico. The legal location for this site is Section 24, Township 20 South, Range 26 East. More specifically the latitude and longitude for the release are 32.557125 North and -104.332237 West. A site plan is presented in Appendix I.

SAN ANTONIO 13111 Lookout Way San Antonio, Texas 78233 Phone 210.265.8025 Fax 210.568.2191 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 the Gypsum land-Cottonwood complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of alluvium that is Holocene to upper Pleistocene in age. Drainage courses in this area are normally dry. Groundwater in the project vicinity is approximately 105-feet below ground surface (bgs) according to the New Mexico Office of the State Engineer. See Appendix II for the referenced groundwater data.

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

ENVIRONMENTAL CONSULTING

ENGINEERING DRILLING CONSTRUCTION

SPILL MANAGEMENT GENERAL CONTRACTING Depth to ground water >100'

Wellhead Protection Area >1000' Distance to surface water body

>1000'

Page 1 of 3

Toll Free: 866.742.0742 www.talonlpe.com

Incident Description

A valve malfunctioned causing the tanks to overflow releasing 400 barrels of oil and 20 barrels of produced water inside the containment of the facility. The release then breached the walls of the containment and flowed south across the location. A vac truck was immediately called to the location and 110 barrels of fluids were recovered. The well was shut-in, the valve was repaired and the facility was put back into service. The area affected was inside the facility. The flow path south of the facility on the location measured approximately 165-feet long by 6 to 30 feet at initial breach point. The flow path to the north of the facility measured approximately 20-feet long by 2 to 4 feet wide. See attached site plan in Appendix I.

Actions Taken

On September 12, 2014 Talon mobilized personnel to the location 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.

Soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B and analysis of Chlorides using Method SM4500Cl-B. The complete laboratory report is attached. (See laboratory results below in Table 1).

On October 21, 2014 Mike Bratcher, Heather Patterson with the NMOCD, Chris Jones and Talon personnel had a meeting on the location to discuss the proper course of action..

Laboratory Results

See Appendix III for complete report of laboratory results.

September 18, 2014

Table 1

Sam	ple ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	Refusal	1'	150	32	1120	1290
S-2	Refusal	0.25'	278	<16	4170	3280
S-3		0.5'	571	<16	19700	8260
		1'	599	32	18700	8170
		2'	0.914	64	19.8	10.5
		3'	1.86	64	18.9	24.8
		4'	< 0.300	64	<10	<10
		5'	1.45	32	48.1	67.6

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.

Remedial Actions to be Taken

- The impacted area from the south berm, in the vicinity of S-2 down to the lease road will be excavated to a depth of 0.5-deep per site meeting. The excavated area will be backfilled with new caliche from Lea Land, LLC and the location will be re-contoured to match the surrounding location.
- The pea gravel inside of the tank battery will be removed and excavated to a depth of 0.5feet deep. The impacted berm behind the middle tank (westside) will be removed and reconstructed with clean caliche backhauled from Lea Land.
- The impacted soil in the vicinity of S-3 will be excavated to a depth of 1.5-feet deep and the north berm will be removed and reconstructed with clean caliche backhauled from Lea Land.
- The excavated material will be hauled to Lea Land, an approved solid waste disposal facility.
- The impacted area west of location and lease road will be leveled and the boulders removed.
- A final report documenting all field activities Final C-141, will be provided to the NMOCD Artesia Office.

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,

nberly M. Wilson

TALON/LPE

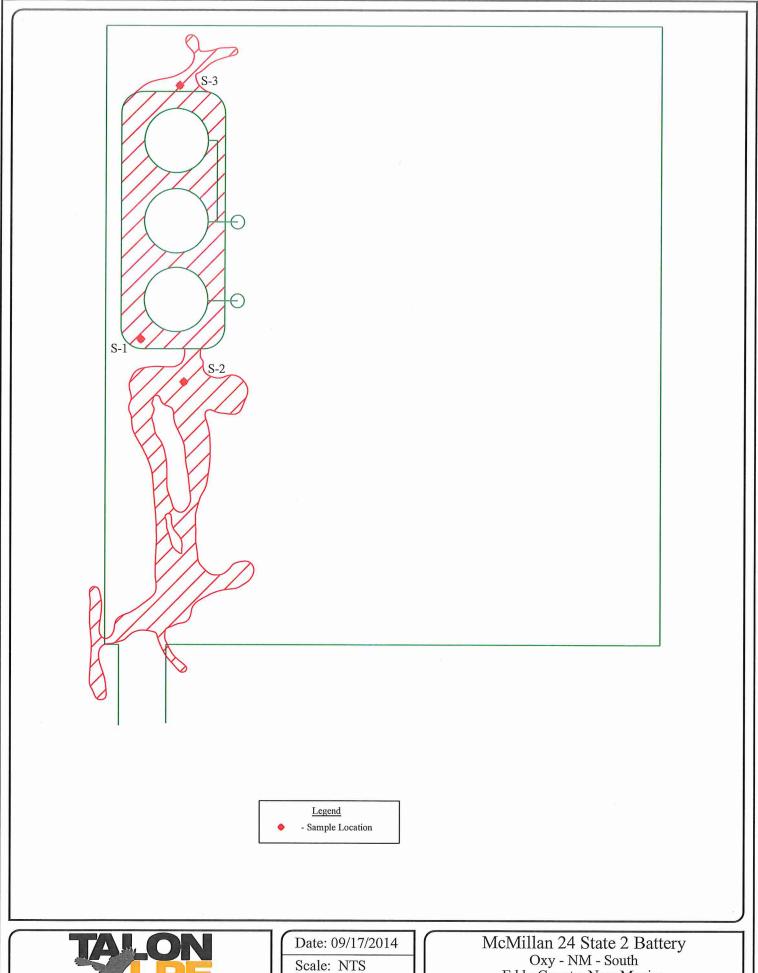
Kimberly Wilson Project Manager

David J. Adkins

District Manager

APPENDIX I

SITE MAP





Drawn By: SMM

McMillan 24 State 2 Battery Oxy - NM - South Eddy County, New Mexico Figure 1 - Site Plan

APPENDIX II GROUNDWATER DATA INITIAL C-141



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			1				14.00						The state of
		Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Cod	de basin	County	64	16	4	Sec	Tws	Rng	X	Υ	Distance	Well	Water	Column
C 00419	С	С	ED	3	3	4	19	20S	27E	563904	3601904* 🌑	1020	1813		
RA 04908			ED		4	1	23	208	26E	560461	3602785*	2536	210	105	105
RA 10603			ED	1	1	1	18	20S	27E	563076	3604910*	2831	135		
C 01182		С	ED	1	1	4	36	208	26E	562296	3599260*	2887	150	135	15
RA 04912			ED		3	1	23	20S	26E	560084	3602785* 🌑	2900	58	22	36

Average Depth to Water:

87 feet

Minimum Depth:

22 feet

Maximum Depth:

135 feet

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 562899

Northing (Y): 3602084

Radius: 3000

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

State of New Mexico Energy Minerals and Natural Resources

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

NM OIL CONSERVATION Form C-141 ARTESIA DISTRICTRevised October 10, 2003

SEP 1 85 MM 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

RECEIVED

Release Notification and Corrective Action OPEDATOR

,	n ABI424252	850				OPERATOR Initial Report F						Final Re	port
	Name of Company: Ox	xy Permian				Contact: C							
ŀ	Address: 1502 W. Con			M 88220			No.: 575-628-41	121					
l	Facility Name : McMilla	in 24 State #2	2 Battery			Facility Typ	e: Battery						
	Surface Owner : State			Mineral O	wner:	State			API#: 3	0-015-3233	36		
				LOCA	OIT	N OF REI	LEASE						
		Township 20S	Range 26E	Feet from the 1980'	North South	/South Line	Feet from the 990	East/ East	West Line	County: E	DDY,	NM	
,				ntitude32.557 NAT		Longitude_ OF REL	104.33235 EASE						
	Type of Release : Produced	d Water & O)il			Volume of & 20 bbls 1	Release : 400 bbl PW	s Oil	Volume F	Recovered: 1	10 bb	s Oil	
	Source of Release: Valve	malfunction	ned	70.00		Date and H 9/10/2014	our of Occurrenc	e;	Date and	Hour of Disc	covery	9/11/2014	4
	Was Immediate Notice Giv	No Not Re	equired	If YES, To OCD	Whom?								
	By Whom? Chris Jones						lour: 9/11/2014						
The second second	Was a Watercourse Reache		Yes 🛛	No		If YES, Volume Impacting the Watercourse.							
The second secon	If a Watercourse was Impa		•		-								
	Describe Cause of Problem barrels of Produced Water vac truck was immediately affected was inside the fac	inside the co	ontainmen e location	nt of the facility. To and 110 barrels o	The rele of Oil w	ease breached as recovered.	the walls of the co The valve was re	ontainn paired	nent and flo and put bac	wed south ac k into service	eross the	ne location. e area	
	Describe Area Affected an Once laboratory results are	nd Cleanup A	Action Tak	cen.* Talon/LPE	E was co	ontacted to co	mplete the site ass	sessmei	nt and grab	soil samples	were c	ollected.	
	I hereby certify that the inf regulations all operators ar public health or the environ should their operations hav or the environment. In add federal, state, or local laws	formation give required to nument. The ve failed to a dition, NMO	ven above o report an acceptance adequately OCD accep	e is true and compl nd/or file certain re ce of a C-141 repo investigate and re	lete to t elease r out by th emedian	the best of my notifications are NMOCD in te contaminati	nd perform correct arked as "Final Ro on that pose a thre	tive acteport" (eat to g	tions for rele does not reli round water	eases which i leve the opera r, surface wat	may er ator of ter, hu	ndanger Fliability man health	1
	Obsis I					OIL CON	SERV	ATION	DIVISIO	N			
	Signature: Chris Jone					Approved by	Signed B District Supervise	by M	1,14 1) SCHOOL BA		-	
	Title: HES Specialist		1	Approval Date: 9/19/14 Expiration Date: N									
	E-mail Address: Christoph	her_Jones@)oxy.com			Conditions	of Approval:	L.		Attached	-		

* Attach Additional Sheets If Necessary

Phone: 575-628-4121

Date: 9/18/2014

Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:

APPENDIX III LABORATORY RESULTS



September 18, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MCMILLIAN 24 STATE 2

Enclosed are the results of analyses for samples received by the laboratory on 09/12/14 12:52.

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 accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

09/12/2014

Reported:

09/18/2014

Project Name:

MCMILLIAN 24 STATE 2

Project Number: Project Location: NOT GIVEN

EDDY COUNTY

Sampling Date:

09/11/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S-1 1.0' REFUSAL (H402852-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.19	0.500	09/16/2014	ND	1.79	89.5	2.00	7.80	
Toluene*	29.4	0.500	09/16/2014	· ND	1.64	82.0	2.00	7.10	
Ethylbenzene*	6.57	0.500	09/16/2014	ND	1.74	87.2	2.00	6.95	
Total Xylenes*	112	1.50	09/16/2014	ND	5.42	90.4	6.00	6.72	
Total BTEX	150	3.00	09/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 89.4-12	6						
Chloride, SM4500CI-B	Chloride, SM4500Cl-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/18/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1120	10.0	09/15/2014	ND	155	77.6	200	2.07	
DRO >C10-C28	1290	10.0	09/15/2014	ND	212	106	200	10.2	
Surrogate: 1-Chlorooctane	143	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	128	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celly D. Keine



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed Dy MC

Received:

DTEV 0031D

09/12/2014

Reported:

09/18/2014

Project Name:

MCMILLIAN 24 STATE 2

Project Number:

NOT GIVEN

Project Location:

EDDY COUNTY

Sampling Date:

Date:

09/11/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Kathy Perez

Sample ID: S-2 0.25' REFUSAL (H402852-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.44	0.500	09/16/2014	ND	1.79	89.5	2.00	7.80	
Toluene*	52.5	0.500	09/16/2014	ND	1.64	82.0	2.00	7.10	
Ethylbenzene*	19.3	0.500	09/16/2014	ND	1.74	87.2	2.00	6.95	
Total Xylenes*	203	1.50	09/16/2014	ND	5.42	90.4	6.00	6.72	
Total BTEX	278	3.00	09/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 9	% 89.4-12	6						
hloride, SM4500Cl-B mg/kg		Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4170	10.0	09/15/2014	ND	155	77.6	200	2.07	
DRO >C10-C28	3280	10.0	09/15/2014	ND	212	106	200	10.2	
Surrogate: 1-Chlorooctane	181 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	129 9	% 63.6-15	4						

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*=Accredited Analyte

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Celey & Keens



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

09/12/2014

Reported:

09/18/2014

Project Name:

MCMILLIAN 24 STATE 2

Project Number:

NOT GIVEN

Project Location:

EDDY COUNTY

Sampling Date:

Sampling Type:

09/11/2014

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S-3 0.5' (H402852-03)

BTEX 8021B	mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.7	5.00	09/16/2014	ND	1.79	89.5	2.00	7.80	
Toluene*	138	5.00	09/16/2014	ND	1.64	82.0	2.00	7.10	
Ethylbenzene*	33.7	5.00	09/16/2014	ND	1.74	87.2	2.00	6.95	
Total Xylenes*	389	15.0	09/16/2014	ND	5.42	90.4	6.00	6.72	
Total BTEX	571	30.0	09/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 89.4-12	6		_ A_ = _ = 1				
Chloride, SM4500Cl-B mg/kg		kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19700	100	09/16/2014	ND	155	77.6	200	2.07	
DRO >C10-C28	8260	100	09/16/2014	ND	212	106	200	10.2	
Surrogate: 1-Chlorooctane	399 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	138 9	63.6-15	4						

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Celeg Thene



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

Received:

09/12/2014

Reported:

09/18/2014

Project Name:

MCMILLIAN 24 STATE 2

Project Number:

NOT GIVEN

Project Location:

EDDY COUNTY

Sampling Date:

Soil

Sampling Type: Sampling Condition: 09/11/2014 Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-3 1.0' (H402852-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	14.7	5.00	09/16/2014	ND	1.79	89.5	2.00	7.80	
Toluene*	155	5.00	09/16/2014	ND	1.64	82.0	2.00	7.10	
Ethylbenzene*	34.8	5.00	09/16/2014	ND	1.74	87.2	2.00	6.95	
Total Xylenes*	395	15.0	09/16/2014	ND	5.42	90.4	6.00	6.72	
Total BTEX	599	30.0	09/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 89.4-12	6						
hloride, SM4500Cl-B mg/kg		Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/18/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	18700	100	09/16/2014	ND	155	77.6	200	2.07	
DRO >C10-C28	8170	100	09/16/2014	ND	212	106	200	10.2	
Surrogate: 1-Chlorooctane	374 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	143 9	% 63.6-15							

Cardinal Laboratories

*=Accredited Analyte

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Celeg & treene-



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

09/12/2014

09/18/2014

Sampling Date:

09/11/2014

Reported: Project Name:

MCMILLIAN 24 STATE 2

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Project Number: Project Location: NOT GIVEN **EDDY COUNTY** Sample Received By:

Kathy Perez

Sample ID: S-3 2.0' (H402852-05)

	-								
BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	0.059	0.050	09/16/2014	ND	1.79	89.5	2.00	7.80	
Toluene*	0.317	0.050	09/16/2014	ND	1.64	82.0	2.00	7.10	
Ethylbenzene*	<0.050	0.050	09/16/2014	ND	1.74	87.2	2.00	6.95	
Total Xylenes*	0.538	0.150	09/16/2014	ND	5.42	90.4	6.00	6.72	
Total BTEX	0.914	0.300	09/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 89.4-12	6						
Chloride, SM4500Cl-B mg/kg		Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/18/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.8	10.0	09/15/2014	ND	155	77.6	200	2.07	
DRO >C10-C28	10.5	10.0	09/15/2014	ND	212	106	200	10.2	
Surrogate: 1-Chlorooctane	92.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	1169	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celly Drene-



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

09/12/2014

Reported:

09/18/2014

Project Name:

MCMILLIAN 24 STATE 2

Project Number:

NOT GIVEN

Project Location:

EDDY COUNTY

Sampling Date:

09/11/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S-3 3.0' (H402852-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2014	ND	1.79	89.5	2.00	7.80	
Toluene*	0.151	0.050	09/16/2014	ND	1.64	82.0	2.00	7.10	
Ethylbenzene*	0.106	0.050	09/16/2014	ND	1.74	87.2	2.00	6.95	
Total Xylenes*	1.60	0.150	09/16/2014	ND	5.42	90.4	6.00	6.72	
Total BTEX	1.86	0.300	09/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 5	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/18/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	18.9	10.0	09/15/2014	ND	155	77.6	200	2.07	
DRO >C10-C28	24.8	10.0	09/15/2014	ND	212	106	200	10.2	
Surrogate: 1-Chlorooctane	84.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed Ry CV

Received:

DTEV 0021D

09/12/2014

Reported:

09/18/2014

Project Name:

MCMILLIAN 24 STATE 2

Project Number:

NOT GIVEN

Project Location:

EDDY COUNTY

Sampling Date:

09/11/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-3 4.0' (H402852-07)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2014	ND	1.73	86.6	2.00	8.13	
Toluene*	<0.050	0.050	09/17/2014	ND	1.65	82.3	2.00	7.44	
Ethylbenzene*	<0.050	0.050	09/17/2014	ND	1.55	77.3	2.00	8.98	
Total Xylenes*	<0.150	0.150	09/17/2014	ND	4.55	75.8	6.00	9.70	
Total BTEX	<0.300	0.300	09/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 89.4-12	6	ar				×	
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/18/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2014	ND	155	77.6	200	2.07	
DRO >C10-C28	<10.0	10.0	09/15/2014	ND	212	106	200	10.2	
Surrogate: 1-Chlorooctane	89.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103 9	63.6-15	4						

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Fax To:

(575) 745-8905

Received:

09/12/2014

Reported:

09/18/2014

Project Name:

MCMILLIAN 24 STATE 2

Project Number:

NOT GIVEN

Project Location:

EDDY COUNTY

Sampling Date:

09/11/2014

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-3 5.0' (H402852-08)

BTEX 8021B	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2014	ND	1.73	86.6	2.00	8.13	
Toluene*	0.116	0.050	09/17/2014	ND	1.65	82.3	2.00	7.44	
Ethylbenzene*	0.079	0.050	09/17/2014	ND	1.55	77.3	2.00	8.98	
Total Xylenes*	1.26	0.150	09/17/2014	ND	4.55	75.8	6.00	9.70	
Total BTEX	1.45	0.300	09/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6						
Chloride, SM4500CI-B mg/kg		/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/18/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	48.1	10.0	09/15/2014	ND	155	77.6	200	2.07	
DRO >C10-C28	67.6	10.0	09/15/2014	ND	212	106	200	10.2	
Surrogate: 1-Chlorooctane	95.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110	% 63.6-15	4						

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		s	No No	5.4° #9	Sampler - UPS - Bus - Other:	Sampler - UPS
	7	D CH	Sample Condition		Delivered By: (Circle One)	Delivered By
	*	7657	my			181
			Received By:	Company of the Company	y:	Relinquished By:
	KEMAKKS:		Kasa	1 7 SO 2 C	1	()
☐ Yes ☐ No	Fax Result)	"	4		
□ Yes	Phone Result:	to consider the state of the st	Date:/ / Received By:			Relinquished By:
ji .	med by client, its subsidiaries	loss of use, or loss of profits incu	out limitation, business interruptions,	sevice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the conformance of exercises have included an adventure of the conformance of exercises have included an adventure of the conformance of exercises.	service. In no event shall Cardinal be liable for incidental still liables or successors arising out of or related to the ner	affiliates or successors aris
ne applicable	rount paid by the client for the days after completion of the a	t or tort, shall be limited to the am d received by Cardinal within 30 o	aim arising whether based in contracted waived unless made in writing an	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable arisings. All claims including those for negligence and any other cause whathoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable.	and Damages. Cardinal's liabiling those for negligence and a	analyses. All claims includ
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	111 1220	1 9/	-	5,0'	S -3	08
	11 1215	1 9/	-	4.0'	5-3	
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	14 1140	11/6	Name and Address of the Owner, where	10 refusal 6	SI	
	DATE TIME	OTHER ACID/B ICE / C OTHER	# CON GROU	(G)RAF		czeco+17
7 B'		R: ASE: OOL	TAINER NDWAT EWATER	Sample I.D.	Sami	Lab I.D.
TE			S ER)OMP		
	SAMPLING	PRESERV. SA	MATRIX			FOR LAB USE ONLY
1		Fax #:		AUKINS	0,	Sampler Name:
-		Phone #:		y county	DI: 600	Project Location:
		State: Zip:	456 5	1100 24 ST.		Project Name:
SIG		City:		, Project Owner:		Project #:
	is Jones	Address: Chur	6-8905	Fax #: 575-746-8905	575-746-8768	Phone #: 575
Ē S	7	Attn: OX	zip: 88210	State: NM Zi		city: Artesia
2	m/LPE-	Company: Talon/LPE	4	Ave.	3 W. Texas Ave	Address: 408 W.
	DF10801390	P.O. #: OP560	5	DACYD ADICIONS		Project Manager:
ANALYSIS REQUEST	70	3 = 1 S = 10			l alon/L	Company Name.

[†] Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326