

# RECEIVED

Oxy USA Inc.

Red Tank 35 Federal #3

API: 30-025-33149 Lease No: NM-86150

By OCD District 1 at 9:49 am, May 28, 2015

April 21, 2014

# AMARILLO 921 North Bivins Amarillo. Texas 79107 Phone 806.467.0607 NMOCD District I Fax 806.467.0622 1625 N. French Dr. Hobbs, NM 88240

Mr. Tomas Oberding

APPROVED

By OCD District 1 at 9:49 am, May 28, 2015

**Conditionally Approved** 

1. Ensure BLM approval 2. Take confirmation samples after excavation

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

HOBBS

**318 East Taylor Street** Hobbs, New Mexico 88240 Phone 575.393.4261 Dear Mr. Bratcher, Fax 575.393.4658

2901 State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

OKLAHOMA CITY Suite IO Oklahoma City, Oklahoma 73116

> SAN ANTONIO San Antonio, Texas 78233 Phone 210.265.8025 Fax 210.568.2191

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

Soil Assessment and Remediation Work Plan

# **Background Information**

The Red Tank 34 Federal No. 13 is located approximately 47 miles southeast of 7700 North Hudson Avenue Carlsbad, New Mexico. The legal location for this release is Unit Letter L, Section 35. Township 22 South and Range 32 East in Lea County, New Mexico. More Phone 405,486,7030 specifically the latitude and longitude for the release are 32.3479 North and -Fax 806.467.0622 103.65079 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of 13111 Lookout Way Agriculture National Resources Conservation Services, the soil in this area is made up of Pyote soils and dune lands. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils under lain by dense caliche layers. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S3-T23S-R32E. The ground water in Section 3 appears to be dry at a depth of 525' below ground surface (bgs). The referenced groundwater data is presented in Appendix II.

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

ENVIRONMENTAL CONSULTING	Depth to ground water	>50'
ENGINEERING	Wellhead Protection Area	>1000'
DRILLING	Distance to surface water body	>1000'
CONSTRUCTION	Distance to surface water body	21000
SPILL MANAGEMENT		
GENERAL CONTRACTING		Page 1 of 3
		1 ago 1 01 5

# **Incident Description**

The skim tank over flowed due to human error causing a release of 15 barrels of oil. A vac truck was immediately called to the location and recovered 13 barrels of oil. All fluids stayed with the dike of the tank battery. Talon mobilized personnel to conduct a site assessment and conduct soil sampling activities utilizing a hand auger. The results of our soil sampling activities are summarized in the table below.

# Laboratory Results

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	< 0.300	368	<10	12100
	1'	2.72	368	293	5170
	2'	1.22	320	177	4380
	3'	< 0.300	224	<10	357
S-2	0'	105	<16	4130	18300
	1'	43.7	<16	1810	11500
	2'	11.5	<16	151	1480
S-3	0'	245	<16	7710	27800
	1'	108	<16	3600	13300
	2'	15.7	<16	420	3690

See Appendix III for complete report of laboratory results.

Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and 1,000 mg/kg for Chlorides.

# **Proposed Remedial Actions**

- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 2.5-feet deep. The impacted areas in the vicinity of S-2 and S-3 will be excavated to a depth of 2-feet deep.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavated areas will be backfilled with new caliche and re-contoured to match the surrounding location.

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,

- M. Wilson mberly Kimberly M. Wilson

Kimberly M. Wilso Project Manager

David J. Adkins District Manager

APPENDIX I

# SITE MAP



# **APPENDIX II**

# **GROUNDWATER DATA**

# **INITIAL C-141**



\*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.

# State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Conto Fo NDA 07505

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

				5	anta I	e, $NM 8/3$	005					
			Relea	se Notifi	catio	on and Co	orrective A	Action				
						<b>OPERA</b> '	TOR		🛛 Initi	al Report		Final Report
		OXY USA IN				Contact: Chris Jones						
		n St. Carlsb				Telephone ]	No.: 575-628-4	121				
Facility Nat	me: Red '	Fank 35 Fed	leral #3 SW	/ <b>D</b>		Facility Typ						
Surface Ow	mer Fodo	rol		Mineral (	)				1.57.37			
Builace Ow	nor, reue	1 41		Ivineral (	Jwner					o.: 30-025-		
									Lease	No.: NM-8	6150	
						N OF RE	LEASE					
Unit Letter	Section	Township		eet from the		h/South Line	Feet from the	East/We	est Line	County	~	
L	35	22S	32E 2	310'	Sout	h	990'	West		Lea		
			]	Latitude_ <u>32.</u>	3479	N Longitude	-103.65079 W					
				NAT	URE	E OF REL	EASE					
Type of Rele	ase: Produ	ced Water				Volume of	Release: 5 bbls			Recovered: 0		
Source of Re	lease: Trip	lex Pump Ma	lfunctioned				lour of Occurrence			Hour of Dis		
Was Immedi	ate Notice (	Tiven?				4/15/2015		4	4/15/2015	5 @ 9:00 am	ι	
in do inimour			Yes 🛛 N	No 🗌 Not R	equired	1 $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$	winom?					
By Whom? H	(imberly N				1	Date and H	lour					
Was a Water	course Read	ched?					olume Impacting (	the Water	Ourse			
			Yes 🛛 N	٩٥			in mpuoting (	the mater	Jourse,			
If a Watercon	urse was Im	pacted, Descri	ihe Fully *	-								
		puotoa, Doson	ioo r uny.									
Describe Cau	ise of Probl	em and Reme	dial Action T	aken. The n	lungor	on the north	triplex pump bro	ales const.	1	0.7.1	1 0	
water inside	the contain	nment of the	facility. A v	ac truck was	immed	liately called t	o the location an	oke causif id if is unl	ig a relea	ise of 5 bari	els of	produced
recovered.												
Describe Are	a Affected	and Cleanup	Action Taker	1.* The imp	acted a	area was insid	e the containme	ent of the	facility.	Talon/LPE	was c	ontracted to
the release the	ial site ass	essment and a	soil sampling	g activities. 'I	'he rer	nediation of t	his release will h	be address	sed in th	e Remediat	ion W	ork Plan for
I hereby certi	fy that the	information gi	ven above is	true and comp	lete to	the heat of my	knowledge and u		1 - 1			1 1
regulations al	l operators	are required to	o report and/	or file certain r	elease	notifications at	nd perform correct	inderstand	that purs	uant to NMC	JCD ri	alles and
public health	or the envi	ronment. The	acceptance c	of a C-141 repo	ort by th	he NMOCD ma	arked as "Final R	eport" doe	s not reli	eve the oner	ator of	lighility
should their c	operations h	ave failed to a	adequately in	vestigate and r	emedia	te contaminati	on that pose a thr	eat to grou	ind water	surface wa	er hu	nan health
or the enviror	nment. In a	ddition, NMO	CD acceptan	ice of a C-141	report	does not reliev	e the operator of	responsibi	lity for co	, ompliance w	ith any	other
federal, state,	or local lay	ws and/or regu	lations. Digitally signed	by Chris Jonos								
	Chris						OIL CON	SERVA	TION	DIVISIO	N	
Signature:	Chris	Jones	email=ckjones88 c=US	38@yahoo.com,								
		0	Date: 2015.05.26			Annroved by	Environmental S	necialist				
Printed Name	e: Chris Jo	nes				rippioved by	Environmental 5	pecialist.				
Title: HES S	necialist					Annua1 D (						
	pecialist					Approval Dat	e:	Ex	piration I	Jate:		
E-mail Addre	ss: Christo	pher.Jones@	oxy.com			Conditions of	Approval:					
Datas 2/25/2	015		DI	(00.4101						Attached	$\Box$	
Date: 3/27/2	015		Phone: 575-	628-4121								

Date: 3/27/2015

\* Attach Additional Sheets If Necessary

# 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.

Santa	Fe, NM 87505					
Release Notification	on and Correct	ive Action	n			
	OPERATOR		🛛 Initi	al Report		Final Report
Name of Company: OXY USA INC	Contact: Chris Jones					
Address: 102 S. Main St. Carlsbad, NM 88220	Telephone No.: 575	-628-4121				
Facility Name: Red Tank 35 Federal #3 SWD	Facility Type: SWD					
Surface Owner: Federal Mineral Owner	м <b>,</b>		ADIN	. 20 025 0	0110	
				o.: 30-025-3 No.: NM-80		
			Lease	NO.: INIVI-80	0120	
	ON OF RELEASE	2				
	th/South Line Feet fro		West Line	County		
L 35 22S 32E 2310' Sou	th 990'	West		Lea		
	<u>N</u> Longitude <u>-103.65</u>	079 W				
Type of Release: Produced Water	E OF RELEASE	* 1 1 1				
Source of Release: Triplex Pump Malfunctioned	Volume of Release: Date and Hour of Oc			Volume Recovered: <b>0 bbls</b> Date and Hour of Discovery		
Bouree of Release. Triplex I unip Manufectoneu	4/15/2015	ccurrence				
Was Immediate Notice Given?	If YES, To Whom?		4/15/2015	5 @ 9:00 am		
🗌 Yes 🛛 No 🗌 Not Require	d					
By Whom? Kimberly M. Wilson	Date and Hour:					
Was a Watercourse Reached?	If YES, Volume Imp	pacting the Wat	ercourse.			
🗌 Yes 🛛 No						
If a Watercourse was Impacted, Describe Fully.*						
Describe Cause of Problem and Romadial Action Takant The almost						
Describe Cause of Problem and Remedial Action Taken: The plunger water inside the containment of the facility. A vac truck was immed	f on the north triplex pu	imp broke cau	sing a relea	ise of 5 barr	els of p	roduced
recovered.	ulately called to the locs	itton and it is i	inknown h	ow much flu	ids we	re
Describe Area Affected and Cleanup Action Taken.* The impacted	area was inside the cor	tainment of th	e facility	Talon/LPF	11/95 00	intracted to
perform initial site assessment and soil sampling activities. The re	mediation of this releas	se will be addr	essed in th	e Remediati	ion Wo	rk Plan for
the release that occurred March 22, 2015.						
I hereby certify that the information given above is true and complete to	the best of my knowledg	ge and understa	nd that purs	uant to NMC	CD rul	es and
regulations all operators are required to report and/or file certain release	notifications and perform	n corrective act	ions for rele	eases which 1	nay end	langer
public health or the environment. The acceptance of a C-141 report by the acceptance of a C-141 report	the NMOCD marked as "	Final Report" d	loes not reli	eve the operation	ator of l	iability
should their operations have failed to adequately investigate and remedi- or the environment. In addition NMOCD accordings of a C 141 report	ate contamination that po	se a threat to g	ound water	, surface wat	er, hum	an health
or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	does not relieve the oper	ator of respons	ibility for co	ompliance wi	th any	other
Digitally signed by Chris Jones		COMBERT	ATTONT	DITITIO	N T	
Signature: Chris Jones ON: cn=Chris Jones, o, ou,	UIL	CONSERV	ATION	DIVISIO	IN	
Signature: CIIIIS JOILES entail-ckonesses@yanoo.com,						
Date: 2015.05.26 17:20:22 -05'00'	Approved by Environm	ental Specialia	•			
Printed Name: Chris Jones	Typroved by Environin	ional opecialis				
Title: HES Specialist	Approval Date:		Expiration I	Date:		
F-mail Address: Christonhar Jones Planer	Can litiana Ch	L.				
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approva	1:		Attached		

Date: 3/27/2015

\* Attach Additional Sheets If Necessary

Phone: 575-628-4121

# **APPENDIX III**

# LABORATORY RESULTS



March 31, 2015

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

RE: RED TANK 35 FED #3

Enclosed are the results of analyses for samples received by the laboratory on 03/26/15 9:30.

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 <a href="https://www.tceg.texas.gov/field/ga/lab">www.tceg.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceg.texas.gov/field/ga/lab">www.tceg.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceg.texas.gov/field/ga/lab">www.tceg.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceg.texas.gov/field/ga/lab">www.tceg.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	03/26/2015	Sampling Date:	03/24/2015
Reported:	03/31/2015	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3	Sampling Condition:	Cool & Intact
Project Number:	70060843401	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-1 0' (H500806-01)

BTEX 8021B	mg/l	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/26/2015	ND	2.20	110	2.00	3.92	
Toluene*	<0.500	0.500	03/26/2015	ND	1.98	98.9	2.00	2.08	
Ethylbenzene*	<0.500	0.500	03/26/2015	ND	1.97	98.3	2.00	3.29	
Total Xylenes*	<1.50	1.50	03/26/2015	ND	5.92	98.7	6.00	2.84	
Total BTEX	<3.00	3.00	03/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104%	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/27/2015	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	<100	100	03/27/2015	ND	203	102	200	0.802	
DRO >C10-C28	12100	100	03/27/2015	ND	212	106	200	1.15	
Surrogate: 1-Chlorooctane	101 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	283 %	6 52.1-17	6						

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celeg D. Kene



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

Received:	03/26/2015	Sampling Date:	03/24/2015
Reported:	03/31/2015	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3	Sampling Condition:	Cool & Intact
Project Number:	70060843401	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-1 1' (H500806-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0,100	03/27/2015	ND	2.27	113	2.00	4.46	
Toluene*	0.164	0.100	03/27/2015	ND	2.05	102	2.00	4,48	
Ethylbenzene*	0.311	0.100	03/27/2015	ND	2.02	101	2.00	5.26	
Total Xylenes*	2.24	0.300	03/27/2015	ND	6.10	102	6.00	4.73	
Total BTEX	2.72	0.600	03/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/27/2015	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	296	100	03/27/2015	ND	203	102	200	0.802	
DRO >C10-C28	5170	100	03/27/2015	ND	212	106	200	1.15	
Surrogate: 1-Chlorooctane	104 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	175 9	52.1-17	6						

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### \*=Accredited Analyte

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Celeg D. Kene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/26/2015	Sampling Date:	03/24/2015
Reported:	03/31/2015	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3	Sampling Condition:	Cool & Intact
Project Number:	70060843401	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-1 2' (H500806-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/27/2015	ND	2.27	113	2.00	4.46	
Toluene*	0.109	0.100	03/27/2015	ND	2.05	102	2.00	4,48	
Ethylbenzene*	<0.100	0.100	03/27/2015	ND	2.02	101	2.00	5.26	
Total Xylenes*	1.11	0.300	03/27/2015	ND	6.10	102	6.00	4.73	
Total BTEX	1.22	0.600	03/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 9	% 61-154							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/27/2015	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
GR0 C6-C10	177	100	03/26/2015	ND	189	94.5	200	5.41	
DRO >C10-C28	4380	100	03/26/2015	ND	193	96.4	200	4.74	
Surrogate: 1-Chlorooctane	103	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	169	% 52.1-17	6						

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#### \*=Accredited Analyte

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Celeg Di Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/26/2015	Sampling Date:	03/24/2015
Reported:	03/31/2015	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3	Sampling Condition:	Cool & Intact
Project Number:	70060843401	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-1 3' (H500806-04)

BTEX 8021B	mg/l	٨g	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2015	ND	2.27	113	2.00	4.46	
Toluene*	<0.050	0.050	03/27/2015	ND	2.05	102	2.00	4.48	
Ethylbenzene*	<0.050	0.050	03/27/2015	ND	2.02	101	2.00	5.26	
Total Xylenes*	<0.150	0.150	03/27/2015	ND	6.10	102	6.00	4.73	
Total BTEX	<0.300	0.300	03/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/27/2015	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	03/26/2015	ND	189	94.5	200	5.41	
DRO >C10-C28	357	10.0	03/26/2015	ND	193	96.4	200	4.74	
Surrogate: 1-Chlorooctane	90.7 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	100 %	6 52.1-17	6						

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#### \*=Accredited Analyte

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Celeg D. Keene



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

03/26/2015	Sampling Date:	03/24/2015
03/31/2015	Sampling Type:	Soil
RED TANK 35 FED #3	Sampling Condition:	Cool & Intact
70060843401	Sample Received By:	Jodi Henson
LEA COUNTY, NM		
	03/31/2015 RED TANK 35 FED #3 70060843401	03/31/2015Sampling Type:RED TANK 35 FED #3Sampling Condition:70060843401Sample Received By:

# Sample ID: S-2 0' (H500806-05)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/27/2015	ND	2.27	113	2.00	4.46	
Toluene*	20.8	2.00	03/27/2015	ND	2.05	102	2.00	4.48	
Ethylbenzene*	16.1	2.00	03/27/2015	ND	2.02	101	2.00	5.26	
Total Xylenes*	68.0	6.00	03/27/2015	ND	6.10	102	6.00	4.73	
Total BTEX	105	12.0	03/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 116 % 61-154

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2015	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	4130	100	03/26/2015	ND	189	94.5	200	5.41	
DRO >C10-C28	18300	100	03/26/2015	ND	193	96.4	200	4.74	
Surrogate: 1-Chlorooctane	208 9	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 355 % 52.1-176

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Received:	03/26/2015	Sampling Date:	03/24/2015
Reported:	03/31/2015	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3	Sampling Condition:	Cool & Intact
Project Number:	70060843401	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-2 1' (H500806-06)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	03/27/2015	ND	2.27	113	2.00	4.46	
Toluene*	7.65	1.00	03/27/2015	ND	2.05	102	2.00	4.48	
Ethylbenzene*	6.63	1.00	03/27/2015	ND	2.02	101	2.00	5.26	
Total Xylenes*	29,4	3.00	03/27/2015	ND	6.10	102	6.00	4.73	
Total BTEX	43.7	6.00	03/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 119 % 61-154

Chloride, SM4500CI-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	03/27/2015	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
		100	03/26/2015	ND	189	94.5	200	5.41	
GRO C6-C10	1810	100	03/20/2013	ND	109	54.5	200	5.11	

Surrogate: 1-Chlorooctadecane 237 % 52.1-176

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

Received:	03/26/2015	Sampling Date:	03/24/2015
Reported:	03/31/2015	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3	Sampling Condition:	Cool & Intact
Project Number:	70060843401	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-2 2' (H500806-07)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.076	0.050	03/27/2015	ND	2.27	113	2.00	4.46	
Toluene*	1.50	0.050	03/27/2015	ND	2.05	102	2.00	4.48	
Ethylbenzene*	1.67	0.050	03/27/2015	ND	2.02	101	2.00	5.26	
Total Xylenes*	8.29	0.150	03/27/2015	ND	6.10	102	6.00	4.73	
Total BTEX	11.5	0.300	03/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 120 % 61-154

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2015	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	151	10.0	03/26/2015	ND	189	94.5	200	5.41	

Surrogate: 1-Chlorooctadecane 119 % 52.1-176

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

Received:	03/26/2015	Sampling Date:	03/24/2015
Reported:	03/31/2015	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3	Sampling Condition:	Cool & Intact
Project Number:	70060843401	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

### Sample ID: S-3 0' (H500806-08)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	03/27/2015	ND	2.27	113	2.00	4.46	
Toluene*	59.2	5.00	03/27/2015	ND	2.05	102	2.00	4.48	
Ethylbenzene*	36.3	5.00	03/27/2015	ND	2.02	101	2.00	5.26	
Total Xylenes*	149	15.0	03/27/2015	ND	6.10	102	6.00	4.73	
Total BTEX	245	30.0	03/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 113 % 61-154

Chloride, SM4500CI-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	03/27/2015	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	7710	100	03/26/2015	ND	189	94.5	200	5.41	
DRO >C10-C28	<b>27800</b> 100 03/26/2015 ND 193 96.4				96.4	200	4.74		
Surrogate: 1-Chlorooctane	324 5	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 557 % 52.1-176

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Received:	03/26/2015	Sampling Date:	03/24/2015
Reported:	03/31/2015	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3	Sampling Condition:	Cool & Intact
Project Number:	70060843401	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-3 1' (H500806-09)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/27/2015	ND	2.27	113	2.00	4.46	
Toluene*	22.3	2.00	03/27/2015	ND	2.05	102	2.00	4.48	
Ethylbenzene*	16.3	2.00	03/27/2015	ND	2.02	101	2.00	5.26	
Total Xylenes*	69.8	6.00	03/27/2015	ND	6.10	102	6.00	4.73	
Total BTEX	108	12.0	03/27/2015	ND					
Total BTEX	108	12.0	03/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 117 % 61-154

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2015	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	3600	100	03/26/2015	ND	189	94.5	200	5.41	
DRO >C10-C28	13300	100	03/26/2015	ND	193	96.4	200	4.74	
Surrogate: 1-Chlorooctane	200	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 266 % 52.1-176

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

Received:	03/26/2015	Sampling Date:	03/24/2015
Reported:	03/31/2015	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3	Sampling Condition:	Cool & Intact
Project Number:	70060843401	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-3 2' (H500806-10)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	03/27/2015	ND	2.27	113	2.00	4.46	
Toluene*	2.05	0.200	03/27/2015	ND	2.05	102	2.00	4.48	
Ethylbenzene*	2,26	0.200	03/27/2015	ND	2.02	101	2.00	5.26	
Total Xylenes*	11.4	0.600	03/27/2015	ND	6.10	102	6.00	4.73	
Total BTEX	15.7	1.20	03/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 110 % 61-154

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2015	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	420	50.0	03/26/2015	ND	189	94.5	200	5.41	
GKO CO-CIO	420	50.0	03/20/2013	ND	109	54.5	200	5.41	

Surrogate: 1-Chlorooctadecane 143 % 52.1-176

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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.
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.
<del>.</del>	Chloride by SM4500CI-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

Page 13 of 13

CARDINAL Laboratories

# Kimberly M. Wilson

From: Sent:	Jones, Kellie, EMNRD [Kellie.Jones@state.nm.us] Friday, May 01, 2015 10:28 AM
То:	Kimberly M. Wilson
Subject:	FW: Oxy's signed initial C-141
Attachments:	Red Tank 35 #3 SWD.pdf 4-22-15.pdf

Kimberly,

Here is the approval. Any questions, please call.

					22S 32E 35	30-025-
3625	5/1/2015	lni c-141	Оху	Red Tank 35 Federal #3 SWD	L	33149

Kellie Jones Environmental Specialist, District 1 Oil Conservation Division, EMNRD (575) 393-6161 ext. 111 575-370-3180 (emergency-cell) E-Mail: <u>kellie.jones@state.nm.us</u>

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

# Please note:

-The OCD is no longer granting "risk-based," or standard closure of events/RPs with remediation deferred to site abandonment/sale/closure. The RP will remain open until such time as historic contamination is addressed. -Photographic documentation is stipulated for all events involving liquids.

If you have any questions or concerns, and for notification, please contact me.

From: Kimberly M. Wilson [mailto:kwilson@talonlpe.com] Sent: Wednesday, April 29, 2015 9:26 AM To: Oberding, Tomas, EMNRD Subject: RE: Oxy's signed initial C-141

Doc,

I should have sent this also..... Please find attached the work plan for the March 22, 2015 release. We will be address this new release dated 4/15-2015 will were remediating the old on. The both are in the containment around the facility. The fluids did not breach the berms

# Kimberly M. Wilson Project Manager

Talon/LPE 408 West Texas Avenue