<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 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 Resource RECEIVED

OCT 26 2009

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Form C-141

Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr.

HOBBSOCD side of form Santa Fe, NM 87505 Release Notification and Corrective Action

			Kele	ease Notific	auoi	and Co	orrective A	cuon				
						OPERA	TOR	[Initia	al Report	\boxtimes	Final Repo
Name of Co	mpany O	XY USA				Contact Ke	lton Beaird			*		
Address 150	2 W. Con	nmerce				Telephone 1	No. (O) 575-628	-4121	C) 575-3	390-1903		
Facility Nan	ne State	CL Lease				Facility Typ	e Tank Battery					
Surface Own	ner State			Mineral O	wner				Lease N	No. 30-0	525-	01576
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	est Line	County		
		100	225							7		
	2	18S	33E							Lea		
			La	titude		Longitud	le					
				NAT	TIRE	OF REL	FASE					
Type of Relea	ase Produc	ed Water		MAI	UKE		Release 20 bbls.		Volume F	Recovered	10bbls.	
Source of Rel							lour of Occurrenc			Hour of Dis		
Earl Co									8-28-09 (@ 10:00 am		
Was Immedia	ate Notice (V	N- D N-P-		If YES, To		0				
			Y es	No Not Rec	quirea		son (NMOCD)-le	ent messag	ge			
By Whom? I							lour See above	h - Water				
Was a Water	course Read		Yes 🗵	1 No		II YES, VO	olume Impacting t	ne water	rcourse.			
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*								
										11-27		The same
		em and Reme				44 - C41	41- A 41		ما دم ساماد	all	:: G	
The water-tra	insier pump	failed causin	g the tank	to overflow produ	iced wa	ter out of the	tank A vac-truck	was call	ed to pick	up an rema	ining ii	uid
		and Cleanup									2-1	
				a. Delineation was	s perfor	med and no f	urther contaminati	ion was c	caused, the	erefore we w	vill cont	tinue with
the approved	work plan	already appro	ved from	the first spill.								
				e is true and compl								
				nd/or file certain re								
public health	or the envi	ronment. The	acceptan	ce of a C-141 repo	ort by th	e NMOCD m	on that pose a thre	eport do	oes not reli	r surface wa	rator of	man health
or the environ	nment. In a	ddition. NMC	OCD accer	otance of a C-141	report d	loes not reliev	e the operator of i	responsib	pility for c	ompliance v	vith any	other
federal, state,					1	1				V Fushi		THE W
	11	1	1	/			OIL CONS	SERV	ATION	DIVISIO	N	
Signature:	11.	(/)/		1								
Signature.	HA			10		Ammayad by	District Supervise	OW!				
Printed Name	: Kelton B	Beaird				Approved by	District Superviso	01.				
						TALLY						
Title: HES S	pecialist					Approval Da	te:	E	xpiration	Date:		
E-mail Addre	ee kelton	beaird@oxy.	com			Conditions of	Annroyal.			1	_	
L-man Addre		Jean Guly.	00111			Conditions Of	ippio vai.			Attached		
Date: 8-28-0	9											14. 200

^{*} Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

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with Rule 116 on back
side of form

Release Notification and Corrective Action **OPERATOR** Initial Report Name of Company OXY USA Contact Kelton Beaird Address 1502 W. Commerce Telephone No. (O) 575-628-4121 C) 575-390-1903 Facility Name State CL Lease Facility Type Tank Battery Mineral Owner Surface Owner State Lease No. -30-025-01576 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County 2 18S 33E Lea Latitude Longitude NATURE OF RELEASE Type of Release Crude Oil Volume of Release 116 bbls. Volume Recovered 60 bbls. Source of Release Steel Circulating Line Date and Hour of Occurrence Date and Hour of Discovery 7-9-09 @ 12:00pm Was Immediate Notice Given? If YES, To Whom? Larry Johnson (NMOCD) By Whom? Kelton Beaird (HES) Date and Hour See above Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The circulating line coming out of the oil tank into the pump corroded causing crude oil to leak. A vac-truck was called to pick up all remaining fluid Describe Area Affected and Cleanup Action Taken.* All contaminated material was removed per NMOCD standards. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a \$141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Kelton Beaird **Expiration Date:** Title: HES Specialist Approval Date: E-mail Address: kelton beaird@oxy.com Conditions of Approval: Attached

Date: 10-22-09

District I
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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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side of form

				ase Notific		OPERA'			M Initi	al Report		Final Repo
Name of Co	mpany – C	DXY USA					elton Beaird		М ши	ai Kepoit		гиат кер
			V. Comme	erce Carlsbad, 1			No 575-887-8	3337				
		CL Battery					e – Flowline		To Myse			1
Surface Ow	ner - State			Mineral O	wner				Lease N	No 30-0	25-0157	6
				LOCA	TION	OF RE	LEASE					
Unit Letter A	Section 2	Township 18S	Range 33E	Feet from the		South Line	Feet from the	East/V	Vest Line	County		
			Lati	Carlon	ALL THE		le_103° 38.170°	W_				
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Type of Rele			Line				Release 116 bb			Recovered		
Source of Re	nease - Stee	el Circulating	Line					ce-		Hour of D 12:00pm	iscovery	1
Was-Immedi	ate Notice C		Yes [No Not Re	equired	Larry John	o-Whom? nson – NMOCD					
By Whom?	- Kelton Ber	aird - HES O	ху			Date and I	lour - see above		a Maria			
Was a Watercourse Reached? ☐ Yes ☑ No				8.7	If YES, V	olume Impacting	the Wate	ercourse.				
		pacted, Descr			rulating	line coming	out of the oil ten	k into the	GUI	9130t	ring ende	oil to leal
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PECEIVED OCT 2 6 2009 HOBBSOCD

Oxy USA
Closure Document
State-CL #2 CTB
Sec. 2 T18S-R33E

Prepared by:
Kelton Beaird-HES Specialist
Occidental Petroleum
Mid-Continent Business Unit
Southwest Asset
Carlsbad, NM
(575)-628-4121

Introduction

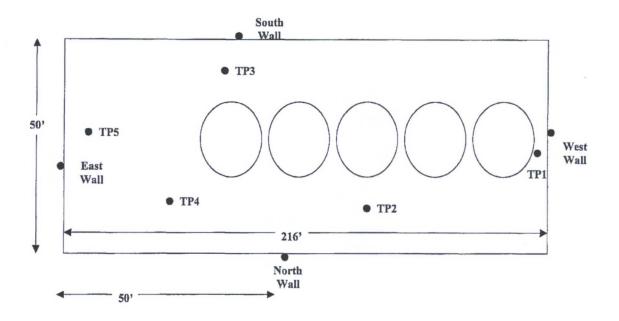
This closing document addresses the closure for two releases at the State CL Tank Battery located in Lea County, New Mexico. Spill information is attached to this report in later pages. Elke environmental was the contractor hired to complete the delineation process and Gandy's was the contractor hired by Oxy to complete the excavation.

Area Description

This area mainly consist of a hard caliche surface. There are no waterwells or surface bodies of water located within 0.5 miles of this location. According to the Chevron Water Map, groundwater is in excess of 100 feet below ground surface.

Clean-up Process

All contamination on this site was completely removed per standards set by the NMOCD. Delineation was performed after the second spill to re-assure that contamination did not travel any further. The affected area was excavated to 18" below ground surface at TP3 and TP5, and 24" at TP 4. All contaminated material was hauled to Lea Land Disposal. The excavated area was then backfilled with clean caliche. Re-seeding was not necessary, due to this being an active site. Analytical data, pictures and the final C-141 document is attached to this closure report.



Analytical Report 340235

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy USA
State CL Tank Battery

12-AUG-09





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Houston - Dallas - San Antonio - Tampa - Miami - Midland - Corpus Christi - Atlanta - Latin America





12-AUG-09

Project Manager: **Logan Anderson Elke Environmental, Inc.**4817 Andrews Hwy
P.O. Box 14167 Odessa, tx 79768
Odessa, TX 79762

Reference: XENCO Report No: 340235

Oxy USA
Project Address:

Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 340235. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 340235 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully.

Brent Barron, II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 340235



Elke Environmental, Inc., Odessa, TX Oxy USA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP # 1 @ Surface	S	Aug-06-09 14:20	0 - 0 ft	340235-001
TP # 2 @ Surface	S	Aug-06-09 13:50	0 - 0 ft	340235-002
TP # 3 @ 18"	S	Aug-06-09 13:30	0 - 18 In	340235-003
TP # 4 @ 18"	S	Aug-06-09 11:30	0 - 18 In	340235-004
TP # 5 @ 18"	S	Aug-06-09 10:30	0 - 18 In	340235-005



Project Id: State CL Tank Battery
Contact: Logan Anderson

Project Location:

Certificate of Analysis Summary 340235 Elke Environmental, Inc., Odessa, TX

Project Name: Oxy USA

Date Received in Lab: Fri Aug-07-09 01:44 pm

Report Date: 12-AUG-09

Report Date: 12-AUG-09

Project Manager: Brent Barron, II

					I loject Manager. Diene Danion, in	Ment Dailon, II	
	Lab Id:	340235-001	340235-002	340235-003	340235-004	340235-005	
between Donnes	Field Id:	TP # 1 @ Surface	TP # 2 @ Surface	TP # 3 @ 18"	TP # 4 @ 18"	TP # 5 @ 18"	
Analysis Nequesieu	Depth:	0-0 tt	0-0 tt	0-18 In	0-18 In	0-18 In	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Aug-06-09 14:20	Aug-06-09 13:50	Aug-06-09 13:30	Aug-06-09 11:30	Aug-06-09 10:30	
Anions by EPA 300	Extracted:						
	Analyzed:	Aug-08-09 11:47	Aug-08-09 12:25	Aug-08-09 12:38	Aug-08-09 12:51	Aug-08-09 13:03	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		ND 5.40	8.61 5.29	74.8 5.44	480 10.9	87.7 5.09	
Percent Moisture	Extracted:						
	Analyzed:	Aug-10-09 09:02	Aug-10-09 09:02	Aug-10-09 09:02	Aug-10-09 09:02	Aug-10-09 09:02	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		7.36 1.00	5.47 1.00	8.10 1.00	8.61 1.00	1.86 1.00	
TPH By SW8015 Mod	Extracted:	Aug-10-09 09:42	Aug-10-09 09:42	Aug-10-09 09:42	Aug-10-09 09:42	Aug-10-09 09:42	
	Analyzed:	Aug-10-09 19:03	Aug-10-09 19:29	Aug-10-09 19:55	Aug-10-09 20:21	Aug-10-09 20:46	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		9.08 QN	17.8 15.9	327 16.3	617 82.1	ND 15.3	
C12-C28 Diesel Range Hydrocarbons		9.08 599	604 15.9	2910 16.3	4950 82.1	51.0 15.3	
C28-C35 Oil Range Hydrocarbons		285 80.6	204 15.9	236 16.3	467 82.1	17.8 15.3	
Total TPH		920 80.6	826 15.9	3473 16.3	6034 82.1	68.8 15.3	

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Since 1990

Brent Barron, II Odessa Laboratory Manager



Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders: 340235,

Sample: 535087-1-BKS / BKS

Project ID: State CL Tank Battery

Lab Batch #: 768150

Matrix: Solid Batch: 1

Units: mg/kg Date Analyzed: 08/10/09 11:13	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	42.8	50.0	86	70-135	

Lab Batch #: 768150

Sample: 535087-1-BSD / BSD

Matrix: Solid Batch:

Units: mg/kg	Date Analyzed: 08/10/09 11:39	SU	RROGATE RI	ECOVERY	STUDY	
ТРН І	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		101	100	101	70-135	
o-Terphenyl		43.5	50.0	87	70-135	

Lab Batch #: 768150

Sample: 535087-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg	Date Analyzed: 08/10/09 12:05	SU	RROGATE RI	ECOVERY	STUDY	
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		87.1	100	87	70-135	
o-Terphenyl		46.5	50.0	93	70-135	

Lab Batch #: 768150

o-Terphenyl

Sample: 340235-001 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 08/10/09 19:03	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes 1-Chlorooctane	86.2	99.6	87	70-135	
o-Terphenyl	45.8	49.8	92	70-135	

Lab Batch #: 768150

Sample: 340235-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 08/10/09 19:29	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.0	100	82	70-135	
o-Terphenyl	42.7	50.0	85	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders: 340235, Lab Batch #: 768150

Project ID: State CL Tank Battery

Sample: 340235-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 08/10/09 19:55	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	97.0	100	97	70-135	
o-Terphenyl	53.6	50.0	107	70-135	

Lab Batch #: 768150

Sample: 340235-004 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 08/10/09 20:21	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	96.5	100	97	70-135	
o-Terphenyl	49.7	50.0	99	70-135	

Lab Batch #: 768150

Sample: 340235-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 08/10/09 20:46	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	88.3	100	88	70-135	
o-Terphenyl	45.5	50.0	91	70-135	

Lab Batch #: 768150

Sample: 339957-003 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 08/10/09 21:12	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	45.0	50.0	90	70-135	

Lab Batch #: 768150

Sample: 339957-003 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 08/10/09 21:37	SU	RROGATE RI	ECOVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		109	100	109	70-135	
o-Terphenyl		45.6	50.0	91	70-135	, 14

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Blank Spike Recovery



Project Name: Oxy USA

Work Order #: 340235

Chloride

Project ID:

10.0

10.0

State CL Tank Battery

80-120

Lab Batch #: 768018

Sample: 768018-1-BKS

Matrix: Solid

100

Date Analyzed: 08/08/2009

Date Prepared: 08/08/2009

Analyst: BRB

Reporting Units: mg/kg	atch #: 1	BLANK /B	LANK SPI	KE REC	COVERYS	STUDY
Anions by EPA 300	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes		1-1	[C]	[D]	.,,,,,	

ND

Blank Spike Recovery [D] = 100*[C]/[B] All results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: Oxy USA

Work Order #: 340235

Analyst: BHW

Lab Batch ID: 768150

Date Prepared: 08/10/2009

0/2009

Project ID: State CL Tank Battery Date Analyzed: 08/10/2009

Date Analyzed: 08/10/2009 Matrix: Solid

Batch #: 1 Sample: 535087-1-BKS

Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	LANKS	PIKE DUPL	ICATE 1	RECOVE	RY STUD	Y	
TPH By SW8015 Mod	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control	Flag
Analytes	<u>(</u>	[B]	[C]	(D)	[3]	Dupncate Result [F]	% K	%	%0K	%KFD	
C6-C12 Gasoline Range Hydrocarbons	ND	1000	859	98	1000	843	84	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	881	88	1000	688	68	1	70-135	35	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Oxy USA



Work Order #: 340235

Lab Batch #: 768018

Project ID: State CL Tank Battery

Date Analyzed: 08/08/2009

08/08/2009 Date Prepared:

Analyst: BRB

QC- Sample ID: 340235-001 S

Batch #: Soil Matrix:

Reporting Units: mg/kg	MATE	RIX / MA	TRIX SPIKE	RECOV	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	108	108	100	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: Oxy USA

Work Order #: 340235

Lab Batch ID: 768150

Date Analyzed: 08/10/2009 teporting Units: mg/kg

QC- Sample ID: 339957-003 S **Date Prepared:** 08/10/2009

Batch #: 1 Matrix: Soil

Analyst: BHW

Project ID: State CL Tank Battery

Reporting Units: mg/kg		M	ATRIX SPIKI	MATI	NX SPII	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	VERY S	TUDY		
TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample S Result S [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1050	952	16	1050	958	91	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1050	1000	95	1050	1020	26	2	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*((C-F)/(C+F)]

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Oxy USA

Work Order #: 340235

Lab Batch #: 768018

Date Prepared:

Project ID: State CL Tank Battery

Date Analyzed: 08/08/2009

Percent Moisture

Analyte

08/08/2009

Analyst: BRB

QC- Sample ID: 340235-001 D

Batch #:

Matrix: Soil

Reporting Units: mg/kg	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	ND	ND	NC	20	

Lab Batch #: 768017

Date Analyzed: 08/10/2009

Date Prepared: 08/10/2009

Analyst: BEV

QC- Sample ID: 340058-001 D

Batch #:

ND

Matrix: Solid

20

Reporting Units: %

Percent Moisture

SAMPLE /	SAMPLE	DUPLICA	ATE RECO	OVERY
Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag

NC

ND

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

Cenco	A Xenco Laboratories Company	iny							126(Ode	12600 West I-20 East Odessa, Texas 79765	st I-2(7976 7976	w 10						Phone: 432-563-1800 Fax: 432-563-1713	432	563-	1713			
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	Company Name	Elke Envi	Elke Environmental									1		-		Project #:	t#:							500	
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	City/State/Zip:	Odessa,	Odessa, TX 79768													۵.	PO #:								
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Environmental Lab of Texas

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Sample Cross Reference 341204



Elke Environmental, Inc., Odessa, TX

Oxy USA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP # 4 @ 2'	S	Aug-14-09 10:15	2 ft	341204-001



Project Id: State CL Battery
Contact: Logan Anderson

Project Location: State CL Battery

Certificate of Analysis Summary 341204 Elke Environmental, Inc., Odessa, TX

ke Environmental, inc., Odess

Project Name: Oxy USA



Date Received in Lab: Mon Aug-17-09 09:26 am

Report Date: 18-AUG-09
Project Manager: Brent Barron. II

			rr rr	roject Manager: Drent Barron, II	rent barron, II	
	Lab Id:	341204-001				
According Descripted	Field Id:	TP # 4 @ 2'				
Analysis Requesieu	Depth:	2 ft				
	Matrix:	SOIL				
	Sampled:	Aug-14-09 10:15				
Anions by EPA 300	Extracted:					
	Analyzed:	Aug-17-09 16:10				
	Units/RL:	mg/kg RL				
Chloride		ND 5.04				
Percent Moisture	Extracted:					
	Analyzed:	Aug-17-09 16:00				
	Units/RL:	% RL				
Percent Moisture		ND 1.00				
TPH By SW8015 Mod	Extracted:	Aug-17-09 12:45				
	Analyzed:	Aug-17-09 23:21				
	Units/RL:	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		ND 15.0				
C12-C28 Diesel Range Hydrocarbons		ND 15.0				
C28-C35 Oil Range Hydrocarbons		ND 15.0				
Total TPH		ND 15.0				

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Brent Barron, II Odessa Laboratory Manager



Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders: 341204,

Sample: 535559-1-BKS / BKS

Project ID: State CL Battery

Matrix: Solid

Lab Batch #: 768790 Unite mo/ko

Batch: SURROGATE RECOVERY STUDY Date Analyzed: 08/17/09 19:12

Chits. hig kg					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	104	100	104	70-135	
o-Terphenyl	43.3	50.0	87	70-135	

Lab Batch #: 768790

Sample: 535559-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg	Date Analyzed: 08/17/09 19:38	SU	RROGATE RI	ECOVERY	STUDY	
ТРН І	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		105	100	105	70-135	
o-Terphenyl		42.8	50.0	86	70-135	

Lab Batch #: 768790

Sample: 535559-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg

Date Analyzed: 08/17/09 20:03

SURROGATE RECOVERY STUDY Amount True Control TPH By SW8015 Mod Amount Limits Found Recovery Flags [A] [B] %R %R [D] **Analytes** 90.6 99.9 91 70-135 47.1 70-135

Lab Batch #: 768790

1-Chlorooctane

o-Terphenyl

Sample: 341204-001 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 08/17/09 23:21	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	99.7	100	100	70-135	
o-Terphenyl	50.6	50.0	101	70-135	

Lab Batch #: 768790

Sample: 341204-001 S / MS

Batch:

1

Matrix: Soil

Units: mg/kg Date Analyzed: 08/18/09 01:47	SU	RROGATE RI	ECOVERY S	STUDY	- 4
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	45.6	50.0	91	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders: 341204,

Project ID: State CL Battery

Lab Batch #: 768790

Sample: 341204-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 08/18/09 02:13	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	99.5	99.9	100	70-135	
o-Terphenyl	39.2	50.0	78	70-135	

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Blank Spike Recovery



Project Name: Oxy USA

Work Order #: 341204

Project ID:

State CL Battery

Lab Batch #: 768815

Sample: 768815-1-BKS

Matrix: Solid

Date Analyzed: 08/17/2009

Date Prepared: 08/17/2009

Analyst: LATCOR

Reporting Units: mg/kg

Ratch #

BLANK /BLANK SPIKE RECOVERY STUDY

Reporting Chits: hig/kg	iten #: 1	DLANK/D	LANK SIT	KE KEC	OVERTS	TODI
Anions by EPA 300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R [D]	%R	
Chloride	ND	10.0	9.77	98	80-120	



BS / BSD Recoveries



Project Name: Oxy USA

Work Order #: 341204

Analyst: BHW

Lab Batch ID: 768790

Sample: 535559-1-BKS

Date Prepared: 08/17/2009

Batch #: 1

Project ID: State CL Battery Date Analyzed: 08/17/2009

Matrix: Solid

Flag Control Limits %RPD 35 35 BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Control Limits 70-135 70-135 RPD % BIR. Spk Dup. %R [G] 116 95 Blank Spike Duplicate Result [F] 1160 952 Spike Added 1000 1000 Ξ Blank Spike %R [D] 115 94 Blank Spike Result [C] 1150 940 Spike Added 1000 1000 [B] Blank Sample Result A ND ND TPH By SW8015 Mod C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons Units: mg/kg Analytes

Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes Relative Percent Difference RPD = 200*[(C-F)/(C+F)]



Form 3 - MS Recoveries

Project Name: Oxy USA



Work Order #: 341204

Lab Batch #: 768815

Project ID: State CL Battery

Date Analyzed: 08/17/2009

Date Prepared: 08/17/2009

Analyst: LATCOR

QC- Sample ID: 341204-001 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATE	RIX / MA	TRIX SPIKE	RECOV	ERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	101	102	101	80-120	

 $\label{eq:matrix_pike_Percent_Recovery} $$[D] = 100*(C-A)/B$$ Relative Percent Difference $[E] = 200*(C-A)/(C+B)$$ All Results are based on MDL and Validated for QC Purposes$

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: Oxy USA



Work Order #: 341204

Lab Batch ID: 768790

Date Analyzed: 08/18/2009

QC-Sample ID: 341204-001 S Date Prepared: 08/17/2009

_ BHW Analyst: Batch #:

Matrix: Soil

Project ID: State CL Battery

							-				
Reporting Units: mg/kg		M	ATRIX SPIKE	MATI	SIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE REC	OVERY S	TUDY		
TPH By SW8015 Mod	Parent Sample		Spiked Sample Result	Spiked Sample	Spik	Duplicate Spiked Sample		RPD	Control Limits	Control	Flag
Analytes	Result [A]	Added [B]	[0]	%R [D]	Add [E]	ed Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1000	941	94	666	861	98	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1190	119	666	1090	109	6	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Chloride

Sample Duplicate Recovery

Project Name: Oxy USA

Work Order #: 341204

Lab Batch #: 768815 **Date Analyzed:** 08/17/2009

QC- Sample ID: 341204-001 D

Anions by EPA 300

Analyte

Percent Moisture

Analyte

Date Prepared:

Project ID: State CL Battery

Analyst: LATCOR

Prepared: 08/17/2009

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag

Lab Batch #: 768810

Date Analyzed: 08/17/2009

Date Prepared: 08/17/2009

Analyst: BEV

QC- Sample ID: 341204-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

Percent Moisture

Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
ND	ND	NC	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

Pade Sampled Pa	Time Sampled Page 1 (2) Announced to the time of the	P O Box 14167 Odessa, TX 79768			Z S	4	32-3	Odessa, loxas	S S S S S S S S S S S S S S S S S S S	Odessa, lexas 78765			02 4	Project Name: Project #: Project Loc: Po #:	0 6 0 6	OXY State	CT CT	\$ 5	KY USA KY USA WAR CL		Battler	3
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Environmental Lab of Texas

eport- Samp	le Log-I	n	
Checklist		Client In	oltiolo
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Yes	No	(Not Present)	
(Yes)	No		
(Yes)	No		
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uld like to pro	ceed with	analysis	
shortly after			
	Yes	Yes No	Checklist

