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NMOCD ARTESIA

Remediation Plan

Prepared for
Oxy USA

US 13 Fed #1Y Flowline Leak Eddy County, NM

RP# 667

Prepared by

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final 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 - US 13 Fed #1Y	Facility Type - Well with Gathering Lines	
Surface Owner BLM	Mineral Owner	Lease No. 30-015-24193

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	13	22S	24E					Eddy

Latitude 32° 23.614' N Longitude 104° 27.402' W

NATURE OF RELEASE

Type of Release - Produced Water	Volume of Release - 100 bbls	Volume Recovered - 0 bbls
Source of Release - Flowline from US 13 Fed #2	Date and Hour of Occurrence	Date and Hour of Discovery 10-28-09 @ 3:00pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher (NMOCD) left message	
By Whom? Kelton Beaird (Oxy HES)	Date and Hour See above	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The flowline from the US 13 Fed #2 ruptured next to the US 13 Fed #1Y location. All water soaked into before a vac-truck could be called. The site was delineated with a hand auger. The ranking criteria for this site is as follows: Surface Body of Water - 0 points; Wellhead Protection Area - 0 points; Groundwater Depth - 0 points (GW > 100'). The total ranking for the site is 0 points. RAL's for the site are Chloride - 250 ppm, TPH - 5,000 ppm and BTEX - 100 ppm (using field vapor headspace measurement).

Attached are a plat map, field analytical and lab confirmations. **TP1 could only be delineated to 6" bgs due to very hard rock.**

Describe Area Affected and Cleanup Action Taken.* Oxy USA proposes to excavate 6" at TP1 and dispose at an OCD approved disposal. The rest of the spill area is below NMOCD Standards. Clean native soil will be backfilled into the excavation and re-seeded with an approved BLM Seed Mixture.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

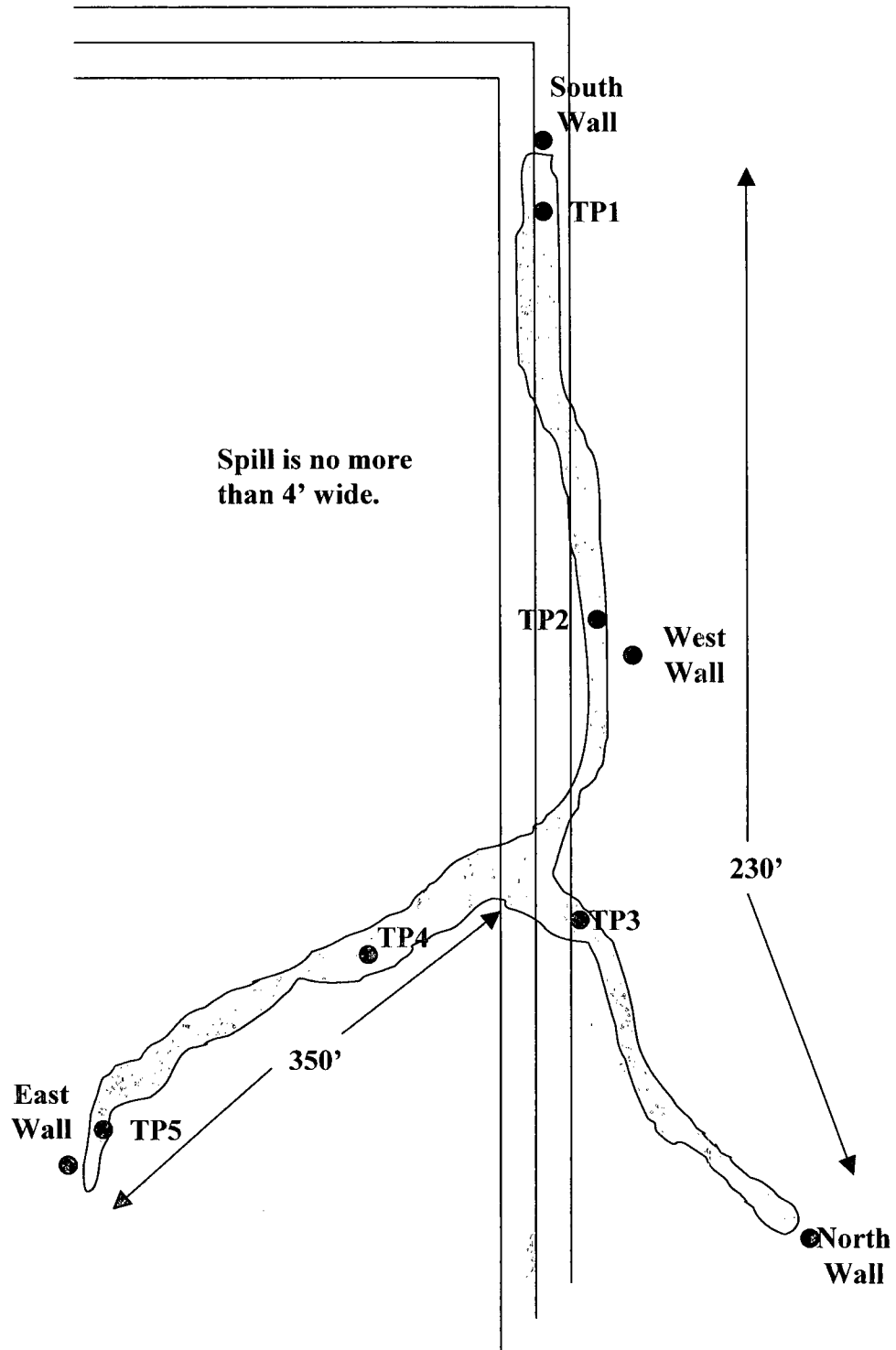
Signature:		OIL CONSERVATION DIVISION	
Printed Name: Kelton Beaird		Approved by District Supervisor:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: kelton_beaird@oxy.com		Conditions of Approval:	Attached ☐
Date: 3-24-10			

* Attach Additional Sheets If Necessary

Oxy USA

US 13 Fed #1Y Flowline Leak

Plat Map



Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA **Analyst** Bobby Steadham

Site US 13 Fed #1Y Flowline Leak

Sample ID	Date	Depth	418.1 TPH / PPM	CI / PPM	PID / PPM	GPS
TP1	12-8-09	Surface		812	15.6	32° 23.614' N 104° 27.402' W
TP1	12-8-09	6"	31	887	12.3	32° 23.614' N 104° 27.402' W
TP2	12-8-09	Surface	28	262	10.6	32° 23.628' N 104° 27.390' W
TP3	12-8-09	Surface	16	178	4.1	32° 23.643' N 104° 27.379' W
TP4	12-8-09	Surface	21	235	0.6	32° 23.652' N 104° 27.355' W
TP5	12-9-09	Surface	8	208	0.5	32° 23.651' N 104° 27.324' W
North Wall	12-9-09	Surface	12	179	1.7	32° 23.655' N 104° 27.370' W
East Wall	12-9-09	Surface	22	239	0.3	32° 23.651' N 104° 27.309' W
South Wall	12-9-09	Surface	9	212	2.6	32° 23.613' N 104° 27.402' W
West Wall	12-9-09	Surface	15	209	1.9	32° 23.637' N 104° 27.386' W

Analyst Notes _____

Analytical Report 355460

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy USA

US 13 Fed # 1 Y Flow Line

16-DEC-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 (E87429), 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-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)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida (E86240),

South Carolina (96031001), Louisiana (04154), Georgia (917)



16-DEC-09

Project Manager: **Logan Anderson**
Elke Environmental, Inc.
P.O. Box 14167
Odessa, TX 79768

Reference: XENCO Report No: **355460**
Oxy USA
Project Address: US 13 Fed # 1 Y Flow Line

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 355460. 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. 355460 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

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Sample Cross Reference 355460



Elke Environmental, Inc., Odessa, TX

Oxy USA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP 1 @ 6"	S	Dec-08-09 16:00	6 In	355460-001
TP 2 @ 0"	S	Dec-08-09 16:30	0 In	355460-002
TP 3 @ 0"	S	Dec-08-09 16:45	0 In	355460-003
TP 4 @ 0"	S	Dec-08-09 17:40	0 In	355460-004
TP 5 @ 0"	S	Dec-09-09 09:45	0 In	355460-005



CASE NARRATIVE

Client Name: Elke Environmental, Inc.

Project Name: Oxy USA

Project ID: US 13 Fed # 1 Y Flow Lin
Work Order Number: 355460

Report Date: 16-DEC-09
Date Received: 12/14/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-785673 Percent Moisture

None

Batch: LBA-785866 Inorganic Anions by EPA 300

None

Batch: LBA-785889 TPH By SW8015 Mod

None



Certificate of Analysis Summary 355460

Elke Environmental, Inc., Odessa, TX

Project Name: Oxy USA



Project Id: US 13 Fed # 1 Y Flow Line

Contact: Logan Anderson

Project Location: US 13 Fed # 1 Y Flow Line

Date Received in Lab: Mon Dec-14-09 09:00 am

Report Date: 16-DEC-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	355460-001	355460-002	355460-003	355460-004	355460-005	
	<i>Field Id:</i>	TP 1 @ 6"	TP 2 @ 0"	TP 3 @ 0"	TP 4 @ 0"	TP 5 @ 0"	
	<i>Depth:</i>	6 In	0 In	0 In	0 In	0 In	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	Dec-08-09 16:00	Dec-08-09 16:30	Dec-08-09 16:45	Dec-08-09 17:40	Dec-09-09 09:45	
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Dec-14-09 12:35	Dec-14-09 12:35	Dec-14-09 12:35	Dec-14-09 12:35	Dec-14-09 12:35	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		888 24.7	58.3 10.1	12.1 5.00	22.8 5.13	6.42 4.89	
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Dec-14-09 17:00	Dec-14-09 17:00	Dec-14-09 17:00	Dec-14-09 17:00	Dec-14-09 17:00	
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		14.9 1.00	17.1 1.00	16.0 1.00	18.2 1.00	14.1 1.00	
TPH By SW8015 Mod	<i>Extracted:</i>	Dec-14-09 11:00	Dec-14-09 11:00	Dec-14-09 11:00	Dec-14-09 11:00	Dec-14-09 11:00	
	<i>Analyzed:</i>	Dec-15-09 16:55	Dec-15-09 17:22	Dec-15-09 17:49	Dec-15-09 18:16	Dec-15-09 23:11	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		18.2 17.6	21.9 18.1	83.8 17.9	138 18.3	17.7 17.5	
C12-C28 Diesel Range Hydrocarbons		70.2 17.6	94.7 18.1	144 17.9	19.9 18.3	ND 17.5	
C28-C35 Oil Range Hydrocarbons		79.5 17.6	ND 18.1	133 17.9	182 18.3	ND 17.5	
Total TPH		167.9 17.6	116.6 18.1	361 17.9	340 18.3	17.7 17.5	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 355460,

Project ID: US 13 Fed # 1 Y Flow Line

Lab Batch #: 785889

Sample: 545596-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 12/15/09 06:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	121	99.9	121	70-135	
o-Terphenyl	52.3	50.0	105	70-135	

Lab Batch #: 785889

Sample: 545596-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 12/15/09 07:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	121	99.9	121	70-135	
o-Terphenyl	52.3	50.0	105	70-135	

Lab Batch #: 785889

Sample: 545596-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 12/15/09 07:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	106	99.8	106	70-135	
o-Terphenyl	55.3	49.9	111	70-135	

Lab Batch #: 785889

Sample: 355460-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/15/09 16:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	55.2	50.0	110	70-135	

Lab Batch #: 785889

Sample: 355460-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/15/09 17:22

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	55.4	50.0	111	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

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



Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 355460,

Project ID: US 13 Fed # 1 Y Flow Line

Lab Batch #: 785889

Sample: 355460-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/15/09 17:49

SURROGATE RECOVERY STUDY

TPH 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	56.7	50.0	113	70-135	

Lab Batch #: 785889

Sample: 355460-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/15/09 18:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	55.7	50.0	111	70-135	

Lab Batch #: 785889

Sample: 355211-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/15/09 18:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	99.7	115	70-135	
o-Terphenyl	51.7	49.9	104	70-135	

Lab Batch #: 785889

Sample: 355211-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/15/09 19:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	99.5	119	70-135	
o-Terphenyl	51.7	49.8	104	70-135	

Lab Batch #: 785889

Sample: 355460-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/15/09 23:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	53.9	50.0	108	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

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



Blank Spike Recovery



Project Name: Oxy USA

Work Order #: 355460

Project ID: US 13 Fed # 1 Y Flow Line

Lab Batch #: 785866

Sample: 785866-1-BKS

Matrix: Solid

Date Analyzed: 12/14/2009

Date Prepared: 12/14/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.9	109	75-125	

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 #: 355460

Analyst: BEV

Date Prepared: 12/14/2009

Project ID: US 13 Fed # 1 Y Flow Line

Date Analyzed: 12/15/2009

Lab Batch ID: 785889

Sample: 545596-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	999	944	94	999	957	96	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	999	735	74	999	735	74	0	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 #: 355460

Lab Batch #: 785866

Date Analyzed: 12/14/2009

Date Prepared: 12/14/2009

Project ID: US 13 Fed # 1 Y Flow Line

Analyst: LATCOR

QC- Sample ID: 355458-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	102	251	383	112	75-125	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MSD Recoveries



Project Name: Oxy USA

Work Order #: 355460

Project ID: US 13 Fed # 1 Y Flow Line

Lab Batch ID: 785889

QC- Sample ID: 355211-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 12/15/2009

Date Prepared: 12/14/2009

Analyst: BEV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [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	30.4	1130	963	83	1130	993	85	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	46.0	1130	921	77	1130	942	79	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
Applicable N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Oxy USA

Work Order #: 355460

Lab Batch #: 785866

Date Analyzed: 12/14/2009

QC- Sample ID: 355458-001 D

Reporting Units: mg/kg

Date Prepared: 12/14/2009

Batch #: 1

Project ID: US 13 Fed # 1 Y Flow Line

Analyst: LATCOR

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	102	108	6	20	

Lab Batch #: 785673

Date Analyzed: 12/14/2009

QC- Sample ID: 355458-001 D

Reporting Units: %

Date Prepared: 12/14/2009

Batch #: 1

Analyst: WRU

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	12.5	13.2	6	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

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79768

Phone: 432-663-1800
Fax: 432-663-1713

Project Manager: Logan Anderson

Project Name: OKY USA

Company Name: Elke Environmental

Project #: _____

Company Address: P O Box 14167

Project Loc: US 13 FED #1 Y Flow Line

City/State/Zip: Odessa, TX 79768

PO #: _____

Telephone No: 432-366-0043

Fax No: 432-366-0884

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: [Signature]

e-mail: la_elkeenv@yahoo.com

(lab use only)

ORDER #:

355440

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ SO ₃	None	Other (Specify)	DW-Drinking Water SL-Gudge GW - Groundwater S-Solid/Solid NP-Non-Potable Specify Other	TPH: (418) 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg S...	Volatiles	SemiVolatiles	BTEX 80218/2030 or BTEX 8280	RCI	N.O.R.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Special Instructions:

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	12/14	9:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: ELOT:	Date	Time
			<u>[Signature]</u>	12/14	09:00

VOCs Free of Headpace? Y N
 Custody seals on container(s) Y N
 Sample Hand Delivered by Sampler/Client Rep.? Y N
 by Courier? Y N
 Temperature Upon Receipt: 40.2 °C 0.1 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Elke Environmental
 Date/ Time: 12/14/09 9:00
 Lab ID #: 355460
 Initials: AS

Sample Receipt Checklist

Client Initials

#1 Temperature of container/ cooler?	<u>Yes</u>	No	0.1 °C	
#2 Shipping container in good condition?	<u>Yes</u>	No		
#3 Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5 Chain of Custody present?	<u>Yes</u>	No		
#6 Sample Instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8 Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11 Containers supplied by ELOT?	<u>Yes</u>	No		
#12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13 Samples properly preserved?	<u>Yes</u>	No	See Below	
#14 Sample bottles intact?	<u>Yes</u>	No		
#15 Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16 Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19 Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable	
#20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event

Andrea Lam

From: "Logan Anderson" <la_elkeenv@yahoo.com>
To: "Andrea Lam" <andrea.lam@xenco.com>
Sent: Monday, December 14, 2009 10:28 AM
Subject: Re: WO 355458, 355460, 355462, 355463, 355465

Andrea,

Correct. Test for TPH 8015M not TPH 418.1

Thanks,
Logan Anderson

Project Manager
Elke Environmental, Inc.
off 432-366-0043
cell 432-664-1269
fax 432-366-0884

--- On Mon, 12/14/09, Andrea Lam <andrea.lam@xenco.com> wrote:

From: Andrea Lam <andrea.lam@xenco.com>
Subject: WO 355458, 355460, 355462, 355463, 355465
To: "Logan Anderson" <la_elkeenv@yahoo.com>
Date: Monday, December 14, 2009, 10:17 AM

Logan,

I would like to confirm our conversation that these five work orders are to be tested for 8015M not 418.1.

Thank You,
Andrea Lam
Sample Receiving / Project Assistant

Environmental Lab of Texas
A Xenco Company
12600 W I-20 E
Odessa, TX 79765
432-563-1800

12/14/2009

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Tuesday, April 20, 2010 7:23 AM
To: 'Kelton_Beaird@oxy.com'
Subject: RE: Open Spill Update

Kelton,

These remediation proposals have not been reviewed yet.

Mike Bratcher

NMOCD DISTRICT 2
1301 W. GRAND AVE.
ARTESIA, NM 88210
575-748-1283 EXT.108
mike.bratcher@state.nm.us

From: Kelton_Beaird@oxy.com [mailto:Kelton_Beaird@oxy.com]
Sent: Monday, April 19, 2010 2:18 PM
To: Bratcher, Mike, EMNRD
Subject: Open Spill Update
Importance: High

Mike,

Recently Elke Environmental delivered some work plans for open spills that occurred. I was wanting to know if you have had a chance to look the plans over and make a decision if they are approved.
The list is as follows:

US federal 13-1Y
Indian Hills # 9
Winston Gas Com Battery
Righthand Canyon 34-5
Jones Canyon 4-1
Nagooltee Peak 5-3
US federal 13-2

Thanks,

Kelton Beaird
HES Specialist
MidCon Southwest
Carlsbad, NM
Office: 575-628-4121
Cell: 575-390-1903
Fax: 575-628-4125