

OCT 05 2009

Closure Report

Prepared for
Oxy USA

Vortec 27 #1 Battery
Eddy County, NM

2RP-320

Prepared by

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Phone (432) 366-0043 Fax (432) 366-0884

Elke Environmental, Inc.

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

August 24, 2009

New Mexico Oil Conservation Division
Mr. Mike Bratcher
1301 West Grand Ave.
Artesia, New Mexico 88210

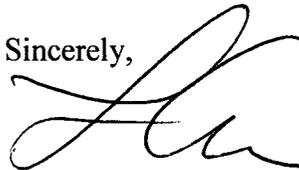
Re: Closure Report
Oxy USA – Vortec 27 #1 Battery
UL'A' Sec. 27 T24S R29E Eddy County
2RP-320

Mr. Mike Bratcher,

Elke Environmental was contracted by Oxy USA to complete the remediation of the spill at the Vortec 27 #1 Battery. A delineation of the site was completed using a backhoe. During the vertical delineation the chloride levels dropped quickly from Surface to 2' bgs, then the levels rose quickly from 2' to 4' bgs. A background sample was obtained at depths of Surface, 2' and 4'. The chloride levels in the background samples showed higher levels than in the battery. Samples were sent to the lab for confirmations at the 2' depths in the battery and the highest background. The following is the ranking criteria for the site: Wellhead Protection Area – 0 points, Surface Body of Water – 0 points and Groundwater (< 50') – 20 points. The RAL's for the site are 100 ppm - TPH 8015M, 100 ppm - BTEX (Using field vapor headspace measurement) and Chlorides are to be less than background levels. Attached is a plat map, field analytical and lab confirmations for the site.

The impacted soil was excavated 2' bgs. The stockpile of excavated soil was remediated onsite by blending with clean caliche to below the RAL's. Enclosed are field analysis and lab confirmation of the remediated soil. The remediated soil was backfilled into the excavation and the berms rebuilt around the battery. If you have any questions about the enclosed report please contact me at the office.

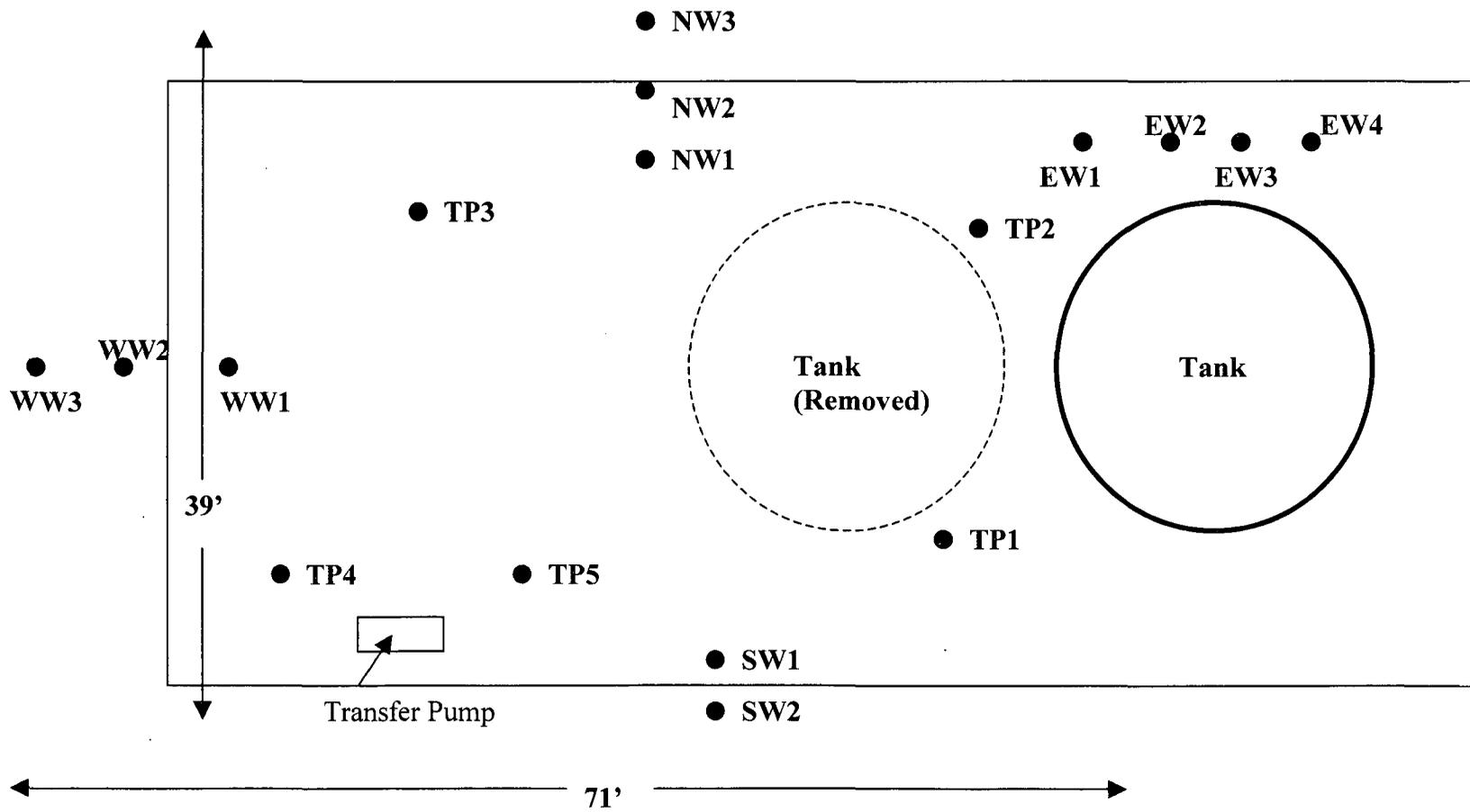
Sincerely,



Logan Anderson

Oxy USA
Vortec 27 #1

Plat Map



Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA

Analyst Robert Spangler

Site Vortec 27 #1

Sample ID	Date	Depth	TPH / PPM	C1 / PPM	PID / PPM	GPS
TP1	6-4-09	Surface	40,000	6,107		32° 11.600' N 103° 57.907' W
TP1	6-4-09	2'	49	839	0.1	32° 11.600' N 103° 57.907' W
TP1	6-4-09	4'		5,289		32° 11.600' N 103° 57.907' W
TP2	6-4-09	Surface	36,200	5,112		32° 11.603' N 103° 57.907' W
TP2	6-4-09	2'	105	769	0.3	32° 11.603' N 103° 57.907' W
TP2	6-4-09	4'		3,598		32° 11.603' N 103° 57.907' W
TP3	6-4-09	Surface	8,000	3,651		32° 11.603' N 103° 57.912' W
TP3	6-4-09	2'	65	239	0.0	32° 11.603' N 103° 57.912' W
TP3	6-4-09	4'		4,985		32° 11.603' N 103° 57.912' W
TP4	6-4-09	Surface	41,682	4,557		32° 11.601' N 103° 57.915' W
TP4	6-4-09	2'	65	899	0.0	32° 11.601' N 103° 57.915' W
TP4	6-4-09	4'		3,448		32° 11.601' N 103° 57.915' W
TP5	6-4-09	Surface	49,858	911		32° 11.601' N 103° 57.910' W
TP5	6-4-09	2'	57	2,999	0.0	32° 11.601' N 103° 57.910' W
TP5	6-4-09	4'		5,489		32° 11.601' N 103° 57.910' W

Analyst Notes _____

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA **Analyst** Robert Spangler

Site Vortec 27 #1

Sample ID	Date	Depth	TPH / PPM	CI / PPM	PID / PPM	GPS
EW #1	6-4-09	Surface		893		32° 11.603' N 103° 57.907' W
EW #2	6-4-09	Surface		595		32° 11.604' N 103° 57.904' W
EW #3	6-4-09	Surface		899		32° 11.604' N 103° 57.903' W
EW #4	6-4-09	Surface	21	439	0.0	32° 11.604' N 103° 57.902' W
NW #1	6-4-09	Surface		2,489		32° 11.602' N 103° 57.912' W
NW #2	6-4-09	Surface		593		32° 11.604' N 103° 57.912' W
NW #3	6-4-09	Surface	56	320	0.0	32° 11.605' N 103° 57.913' W
WW #1	6-4-09	Surface		1,383		32° 11.601' N 103° 57.918' W
WW #2	6-4-09	Surface		754		32° 11.601' N 103° 57.919' W
WW #3	6-4-09	Surface	61	320	0.0	32° 11.601' N 103° 57.920' W
SW #1	6-4-09	Surface		4,664		32° 11.598' N 103° 57.911' W
SW #2	6-4-09	Surface	47	451	0.0	32° 11.598' N 103° 57.911' W
Background	6-4-09	Surface		449		32° 11.590' N 103° 57.914' W
Background	6-4-09	2'		923		32° 11.590' N 103° 57.914' W
Background	6-4-09	4'		5,548		32° 11.590' N 103° 57.914' W

Analyst Notes Background is 100' South of Battery. EW is East Wall.

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

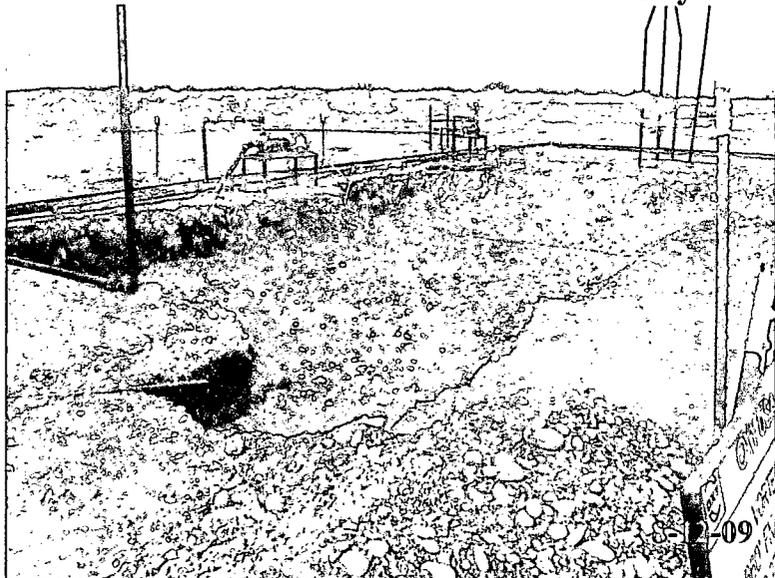
Client Oxy USA **Analyst** Bobby Steadham

Site Vortec 27 #1

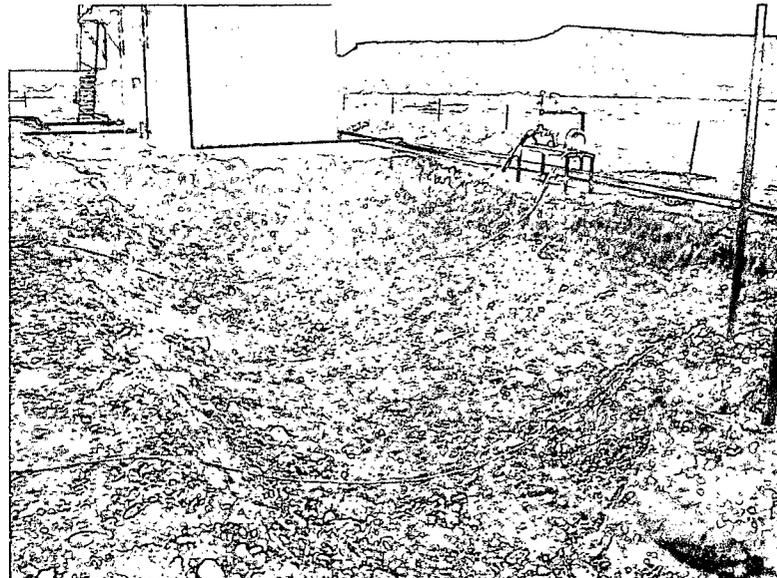
Sample ID	Date	Depth	TPH / PPM	CI / PPM	PID / PPM	GPS
Pile 1	8-5-09		305	1,203	4.1	
Pile 1	8-5-09		348	1,499	4.3	
Pile 1	8-12-09		82	1,205	2.9	
Pile 2	8-5-09		399	1,679	5.7	
Pile 2	8-5-09		183	1,823	3.9	
Pile 2	8-12-09		127	1,523	4.1	
Pile 2	8-13-09		84	749	3.7	
Pile 3	8-6-09		242	1,743	10.3	
Pile 3	8-6-09		284	1,769	12.1	
Pile 3	8-12-09		54	1,398	6.3	
Berm Pile	8-6-09		76	2,399	8.5	

Analyst Notes Pile samples are 5 point composites.

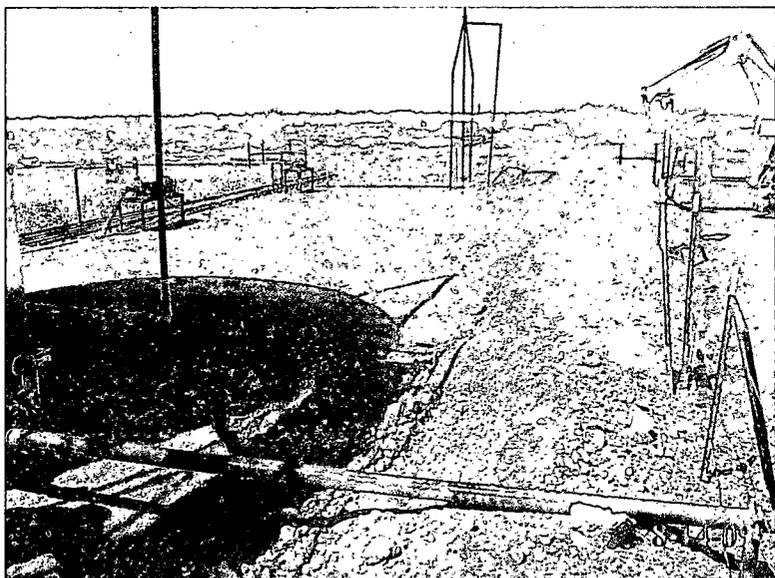
Oxy USA – Vortec 27 #1



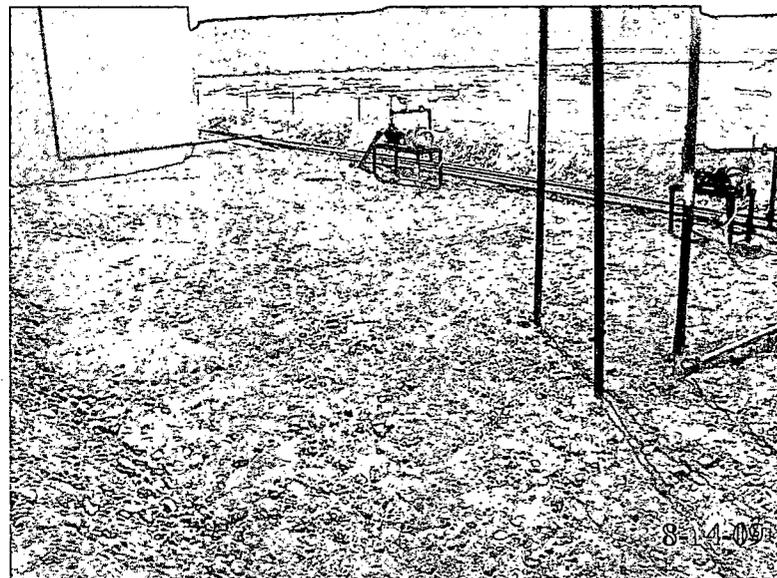
Site after excavation of 2' of impacted soil.



Site after excavation of 2' of impacted soil.



Site after backfill of remediated soil and rebuilt berms.



Site after backfill of remediated soil and rebuilt berms.

Analytical Report 335099

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy

Voetec 27 # 1

17-JUN-09



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX
Corpus Christi, TX T104704370-08-TX - Dallas, TX T104704295-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Miramar, FL E86349
Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

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



17-JUN-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: **335099**
Oxy
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 335099. 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. 335099 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 335099



Elke Environmental, Inc., Odessa, TX

Oxy

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Background @ 4'	S	Jun-04-09 14:45	4 ft	335099-001
TP 1 @ 2'	S	Jun-04-09 15:45	2 ft	335099-002
TP 2 @ 2'	S	Jun-04-09 16:15	2 ft	335099-003
TP 3 @ 2'	S	Jun-04-09 16:45	2 ft	335099-004
TP 4 @ 2'	S	Jun-04-09 17:25	2 ft	335099-005
TP 5 @ 2'	S	Jun-04-09 17:40	2 ft	335099-006

CASE NARRATIVE



Client Name: Elke Environmental, Inc.

Project Name: Oxy

Project ID: Voetec 27 # 1

Work Order Number: 335099

Report Date: 17-JUN-09

Date Received: 06/10/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-762045 Percent Moisture

None

Batch: LBA-762052 TPH by SW8015 Mod

None

Batch: LBA-762098 Inorganic Anions by EPA 300

None

Batch: LBA-762368 TX1005

None



Certificate of Analysis Summary 335099

Elke Environmental, Inc., Odessa, TX

Project Name: Oxy



Project Id: Voetec 27 # 1

Contact: Logan Anderson

Date Received in Lab: Wed Jun-10-09 03:48 pm

Report Date: 17-JUN-09

Project Location:

Project Manager: Brent Barron, II

Analysis Requested	<i>Lab Id:</i>	335099-001	335099-002	335099-003	335099-004	335099-005	335099-006
	<i>Field Id:</i>	Background @ 4'	TP 1 @ 2'	TP 2 @ 2'	TP 3 @ 2'	TP 4 @ 2'	TP 5 @ 2'
	<i>Depth:</i>	4 ft	2 ft				
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-04-09 14:45	Jun-04-09 15:45	Jun-04-09 16:15	Jun-04-09 16:45	Jun-04-09 17:25	Jun-04-09 17:40
Anions by EPA 300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jun-11-09 12:00					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		6130 114	946 59.6	2210 61.0	817 59.3	650 58.5	5210 117
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jun-12-09 08:45					
	<i>Units/RL:</i>	% RL					
Percent Moisture		12.50 1.00	16.05 1.00	18.05 1.00	15.74 1.00	14.58 1.00	14.81 1.00
TPH By SW8015 Mod	<i>Extracted:</i>	Jun-11-09 11:32	Jun-11-09 11:32	Jun-11-09 11:32	Jun-15-09 10:17	Jun-15-09 10:17	Jun-15-09 10:17
	<i>Analyzed:</i>	Jun-11-09 20:24	Jun-11-09 20:46	Jun-11-09 21:09	Jun-15-09 11:36	Jun-15-09 12:00	Jun-15-09 12:23
	<i>Units/RL:</i>	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons		ND 17.1	ND 17.9	ND 18.2	ND 17.7	ND 17.6	ND 17.5
C12-C28 Diesel Range Hydrocarbons		ND 17.1	ND 17.9	ND 18.2	ND 17.7	ND 17.6	ND 17.5
C28-C35 Oil Range Hydrocarbons		ND 17.1	ND 17.9	ND 18.2	ND 17.7	ND 17.6	ND 17.5
Total TPH		ND 17.1	ND 17.9	ND 18.2	ND 17.7	ND 17.6	ND 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
 Odessa Laboratory Director



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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5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Oxy

Work Orders : 335099,

Project ID: Voetec 27 # 1

Lab Batch #: 762052

Sample: 531713-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/11/09 12:19

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	77.2	99.9	77	70-135	
o-Terphenyl	35.3	50.0	71	70-135	

Lab Batch #: 762052

Sample: 531713-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/11/09 12:42

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	81.3	100	81	70-135	
o-Terphenyl	35.6	50.0	71	70-135	

Lab Batch #: 762052

Sample: 531713-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/11/09 13:06

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	81.4	100	81	70-135	
o-Terphenyl	41.4	50.0	83	70-135	

Lab Batch #: 762052

Sample: 335099-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/11/09 20:24

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	84.0	100	84	70-135	
o-Terphenyl	42.8	50.0	86	70-135	

Lab Batch #: 762052

Sample: 335099-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/11/09 20:46

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	87.6	100	88	70-135	
o-Terphenyl	42.8	50.0	86	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

Work Orders : 335099,

Project ID: Voetec 27 # 1

Lab Batch #: 762052

Sample: 335099-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/11/09 21:09

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	85.8	99.5	86	70-135	
o-Terphenyl	41.3	49.8	83	70-135	

Lab Batch #: 762052

Sample: 335099-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/11/09 21:31

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	41.1	50.0	82	70-135	

Lab Batch #: 762052

Sample: 335099-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/11/09 21:54

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	95.1	100	95	70-135	
o-Terphenyl	41.6	50.0	83	70-135	

Lab Batch #: 762368

Sample: 531886-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/15/09 10:27

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	98.6	100	99	70-135	
o-Terphenyl	39.9	50.0	80	70-135	

Lab Batch #: 762368

Sample: 531886-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/15/09 10:50

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	38.9	50.0	78	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

Work Orders : 335099,

Project ID: Voetec 27 # 1

Lab Batch #: 762368

Sample: 531886-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/15/09 11:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.9	100	88	70-135	
o-Terphenyl	42.8	50.0	86	70-135	

Lab Batch #: 762368

Sample: 335099-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/15/09 11:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.8	99.5	87	70-135	
o-Terphenyl	43.2	49.8	87	70-135	

Lab Batch #: 762368

Sample: 335099-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/15/09 12:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.7	100	90	70-135	
o-Terphenyl	43.3	50.0	87	70-135	

Lab Batch #: 762368

Sample: 335099-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/15/09 12:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.0	99.5	87	70-135	
o-Terphenyl	43.3	49.8	87	70-135	

Lab Batch #: 762368

Sample: 335298-004 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/15/09 19:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	40.9	50.0	82	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

Work Orders : 335099,

Project ID: Voetec 27 # 1

Lab Batch #: 762368

Sample: 335298-004 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/15/09 20:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	99.9	106	70-135	
o-Terphenyl	39.9	50.0	80	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

Work Order #: 335099

Project ID:

Voetec 27 # 1

Lab Batch #: 762098

Sample: 762098-1-BKS

Matrix: Solid

Date Analyzed: 06/11/2009

Date Prepared: 06/11/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	9.29	93	90-110	

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

Work Order #: 335099

Project ID: Voetec 27 # 1

Analyst: BHW

Date Prepared: 06/11/2009

Date Analyzed: 06/11/2009

Lab Batch ID: 762052

Sample: 531713-1-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	704	70	1000	710	71	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	999	811	81	1000	820	82	1	70-135	35	

Analyst: BHW

Date Prepared: 06/15/2009

Date Analyzed: 06/15/2009

Lab Batch ID: 762368

Sample: 531886-1-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	1000	812	81	1000	831	83	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1000	100	1000	1020	102	2	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

Work Order #: 335099
Lab Batch #: 762098
Date Analyzed: 06/11/2009
QC- Sample ID: 335099-001 S
Reporting Units: mg/kg

Date Prepared: 06/11/2009
Batch #: 1

Project ID: Voctec 27 # 1
Analyst: LATCOR
Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

|



Form 3 - MS Recoveries



Project Name: Oxy

Work Order #: 335099

Lab Batch #: 762098

Project ID: Voetec 27 # 1

Date Analyzed: 06/11/2009

Date Prepared: 06/11/2009

Analyst: LATCOR

QC- Sample ID: 335099-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	6130	2290	8430	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 / MSD Recoveries



Project Name: Oxy

Work Order #: 335099

Project ID: Voetec 27 # 1

Lab Batch ID: 762052

QC- Sample ID: 335099-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 06/11/2009

Date Prepared: 06/11/2009

Analyst: BHW

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	ND	1140	927	81	1140	909	80	2	70-135	35
C12-C28 Diesel Range Hydrocarbons	ND	1140	1160	102	1140	1160	102	0	70-135	35	

Lab Batch ID: 762368

QC- Sample ID: 335298-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 06/15/2009

Date Prepared: 06/15/2009

Analyst: BHW

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	ND	1090	914	84	1080	924	86	1	70-135	35
C12-C28 Diesel Range Hydrocarbons	ND	1090	1130	104	1080	1140	106	1	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

Work Order #: 335099

Lab Batch #: 762098

Project ID: Voetec 27 # 1

Date Analyzed: 06/11/2009

Date Prepared: 06/11/2009

Analyst: LATCOR

QC- Sample ID: 335099-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	6130	6200	1	20	

Lab Batch #: 762045

Date Analyzed: 06/12/2009

Date Prepared: 06/12/2009

Analyst: BEV

QC- Sample ID: 335099-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	12.5	12.7	1	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

Analytical Report 341387

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy USA

Vortec 27 # 1

20-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)

Xenco-Boca Raton (EPA Lab Code:FL00449): Florida(E86240), South Carolina(96031001), Louisiana(04154), Georgia(917)

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



20-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: **341387**
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 341387. 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. 341387 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 341387



Elke Environmental, Inc., Odessa, TX

Oxy USA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Pile	S	Aug-11-09 15:50		341387-001



CASE NARRATIVE

Client Name: Elke Environmental, Inc.

Project Name: Oxy USA

Project ID: Vortec 27 # 1

Work Order Number: 341387

Report Date: 20-AUG-09

Date Received: 08/18/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-768931 Percent Moisture

None

*Batch: LBA-768936 Inorganic Anions by EPA 300
E300*

Batch 768936, Chloride recovered above QC limits in the Matrix Spike.

Samples affected are: 341387-001.

The Laboratory Control Sample for Chloride is within laboratory Control Limits

Batch: LBA-769146 TPH by SW8015 Mod

None



Certificate of Analysis Summary 341387

Elke Environmental, Inc., Odessa, TX

Project Name: Oxy USA



Project Id: Vortec 27 # 1

Contact: Logan Anderson

Date Received in Lab: Tue Aug-18-09 02:30 pm

Report Date: 20-AUG-09

Project Location:

Project Manager: Brent Barron, II

Analysis Requested	<i>Lab Id:</i>	341387-001				
	<i>Field Id:</i>	Pile				
	<i>Depth:</i>					
	<i>Matrix:</i>	SOIL				
	<i>Sampled:</i>	Aug-11-09 15:50				
Anions by EPA 300	<i>Extracted:</i>					
	<i>Analyzed:</i>	Aug-18-09 21:57				
	<i>Units/RL:</i>	mg/kg RL				
Chloride		518 20.3				
Percent Moisture	<i>Extracted:</i>					
	<i>Analyzed:</i>	Aug-18-09 16:00				
	<i>Units/RL:</i>	% RL				
Percent Moisture		1.49 1.00				
TPH By SW8015 Mod	<i>Extracted:</i>	Aug-19-09 12:21				
	<i>Analyzed:</i>	Aug-19-09 22:04				
	<i>Units/RL:</i>	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		ND 15.2				
C12-C28 Diesel Range Hydrocarbons		35.6 15.2				
C28-C35 Oil Range Hydrocarbons		18.9 15.2				
Total TPH		54.5 15.2				

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.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi


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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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 341387,

Project ID: Vortec 27 # 1

Lab Batch #: 769146

Sample: 535811-1-BKS / BKS

Batch: 1 **Matrix:** Solid

	SURROGATE RECOVERY STUDY				
Units: mg/kg	Date Analyzed: 08/19/09 14:15				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	55.0	50.0	110	70-135	

Lab Batch #: 769146

Sample: 535811-1-BSD / BSD

Batch: 1 **Matrix:** Solid

	SURROGATE RECOVERY STUDY				
Units: mg/kg	Date Analyzed: 08/19/09 14:41				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	56.8	50.0	114	70-135	

Lab Batch #: 769146

Sample: 535811-1-BLK / BLK

Batch: 1 **Matrix:** Solid

	SURROGATE RECOVERY STUDY				
Units: mg/kg	Date Analyzed: 08/19/09 15:07				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	58.8	50.0	118	70-135	

Lab Batch #: 769146

Sample: 341387-001 / SMP

Batch: 1 **Matrix:** Soil

	SURROGATE RECOVERY STUDY				
Units: mg/kg	Date Analyzed: 08/19/09 22:04				
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	57.1	50.0	114	70-135	

Lab Batch #: 769146

Sample: 341300-004 S / MS

Batch: 1 **Matrix:** Soil

	SURROGATE RECOVERY STUDY				
Units: mg/kg	Date Analyzed: 08/20/09 00:38				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	54.1	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.



Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 341387,

Project ID: Vortec 27 # 1

Lab Batch #: 769146

Sample: 341300-004 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/20/09 01:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	99.9	128	70-135	
o-Terphenyl	55.2	50.0	110	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.

BS / BSD Recoveries



Project Name: Oxy USA

Date Prepared: 08/19/2009

Project ID: Vortec 27 # 1

Date Analyzed: 08/19/2009

: 535811-1-BKS

Batch #: 1

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

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
ND	1000	976	98	1000	990	99	1	70-135	35	
ND	1000	1040	104	1000	1070	107	3	70-135	35	

+F)]

Purposes



Form 3 - MS Recoveries



Project Name: Oxy USA

Work Order #: 341387

Lab Batch #: 768936

Project ID: Vortec 27 # 1

Date Analyzed: 08/18/2009

Date Prepared: 08/18/2009

Analyst: LATCOR

QC- Sample ID: 341387-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	518	406	1120	148	80-120	X

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 / MSD Recoveries



Project Name: Oxy USA

Work Order #: 341387

Project ID: Vortec 27 # 1

Lab Batch ID: 769146

QC- Sample ID: 341300-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/20/2009

Date Prepared: 08/19/2009

Analyst: BHW

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	ND	1020	1090	107	1020	1100	108	1	70-135	35
C12-C28 Diesel Range Hydrocarbons	336	1020	1500	114	1020	1530	117	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 #: 341387

Lab Batch #: 768936

Project ID: Vortec 27 # 1

Date Analyzed: 08/18/2009

Date Prepared: 08/18/2009

Analyst: LATCOR

QC- Sample ID: 341387-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	518	516	0	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
Variance/ Corrective Action Report- Sample Log-In

Client: Elke Env.
 Date/ Time: 8.15.09 14:30
 Lab ID #: 341387
 Initials: AL

Sample Receipt Checklist

			Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	2.6 °C
#2 Shipping container in good condition?	(Yes)	No	
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)
#4 Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present
#5 Chain of Custody present?	(Yes)	No	
#6 Sample instructions complete of Chain of Custody?	(Yes)	No	
#7 Chain of Custody signed when relinquished/ received?	(Yes)	No	
#8 Chain of Custody agrees with sample label(s)?	(Yes)	No	iD written on Cont./ Lid
#9 Container label(s) legible and intact?	(Yes)	No	Not Applicable
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No	
#11 Containers supplied by ELOT?	(Yes)	No	
#12 Samples in proper container/ bottle?	(Yes)	No	See Below
#13 Samples properly preserved?	(Yes)	No	See Below
#14 Sample bottles intact?	(Yes)	No	
#15 Preservations documented on Chain of Custody?	(Yes)	No	
#16 Containers documented on Chain of Custody?	(Yes)	No	
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below
#18 All samples received within sufficient hold time?	(Yes)	No	See Below
#19 Subcontract of sample(s)?	Yes	No	(Not Applicable)
#20 VOC samples have zero headspace?	(Yes)	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

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

State of New Mexico
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Oil Conservation Division
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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 – Dusty Wilson	
Address – 4008 N Grimes PMB #269 Hobbs, NM 88240	Telephone No. – 575-397-8210	
Facility Name – Vortec 27 #1 Battery	Facility Type – Well with Battery	
Surface Owner – State	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	27	24S	29E	660	North	330	East	Eddy

Latitude 32° 11.600' N Longitude 103° 57.907' W

NATURE OF RELEASE

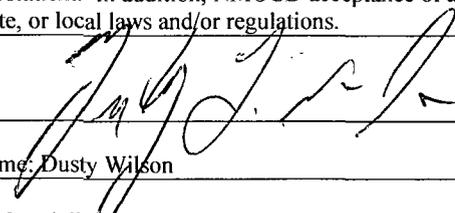
Type of Release – Produced Water	Volume of Release - 10 bbls	Volume Recovered – 2 bbls
Source of Release – Tank Battery	Date and Hour of Occurrence	Date and Hour of Discovery – 5-12-09 9:00am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher – NMOCD	
By Whom? – Kelton Beaird - Oxy	Date and Hour – Same as above	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Corrosion at the bottom of the tank was the root cause. Pumper called for a vac-truck and all standing fluid was picked up. Spill was contained within the battery. The battery was delineated using field analysis. Confirmation samples were taken to the lab. The groundwater in the surrounding area shows < 50' using the SEO data and the Chevron/Texaco groundwater map. The following are the Recommended Action Levels for the site : Chloride – Less than Background Levels, TPH – 100 ppm, BTEX – 100 ppm(field vapor headspace analysis).

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated 2' bgs. The stockpile of excavated soil was remediated onsite by blending with clean caliche to below the RAL's. The remediated soil was backfilled into the excavation and the berms rebuilt.

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: Dusty Wilson	Approved by District Supervisor:		
Title: HES Specialist	Approval Date:	Expiration Date:	
Email Address: Dusty_wilson@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8-24-09	Phone: 575-397-8210		

* Attach Additional Sheets If Necessary