

Closure Report

MAY 11 2009

Prepared for
Oxy USA

Sundance 10 Federal #1 Battery
Eddy County, NM

2RP-261

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
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April 27, 2009

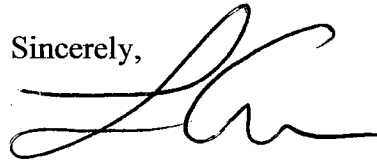
New Mexico Oil Conservation Division
Attn: Mike Bratcher
1301 W. Grand Ave
Artesia, New Mexico 88210

Re: Remediation of Spill at Oxy USA – Sundance 10 Federal #1 Battery
UL 'D' Sec. 10 T24S R31E Eddy County
2RP-261

Mr. Mike Bratcher,

Elke Environmental was contracted by Oxy USA to complete the closure of the spill at the Sundance 10 Federal #1 Battery. Using the siting criteria outlined on the Final C-141 the ranking for the site is 0 points. The Recommended Action Levels are 250 ppm Chloride, 5,000 ppm TPH and 100 ppm BTEX (field vapor analysis). All soil above the RAL's was excavated and blended onsite. The blended pile was tested and was below all the RAL's except the chlorides. The pile tested 579 ppm chlorides (lab confirmation). As per the conversation between Logan Anderson (Elke Environmental) and Mike Bratcher (NMOCD) the soil was backfilled to 4' bgs. A 20 mil poly liner was installed at 4' with 4 oz. Geotextile Liner below and above the poly liner. The remaining impacted soil was hauled to Lea Land Disposal and clean native soil was backfilled to grade inside the battery. Lab confirmations were taken on the bottom of the excavation and the pile that was backfilled. Enclosed are a plat map, field analytical, groundwater data, lab confirmations, pictures and a Final C-141 for the remediation. If you have any questions about the enclosed report please contact me at the office.

Sincerely,

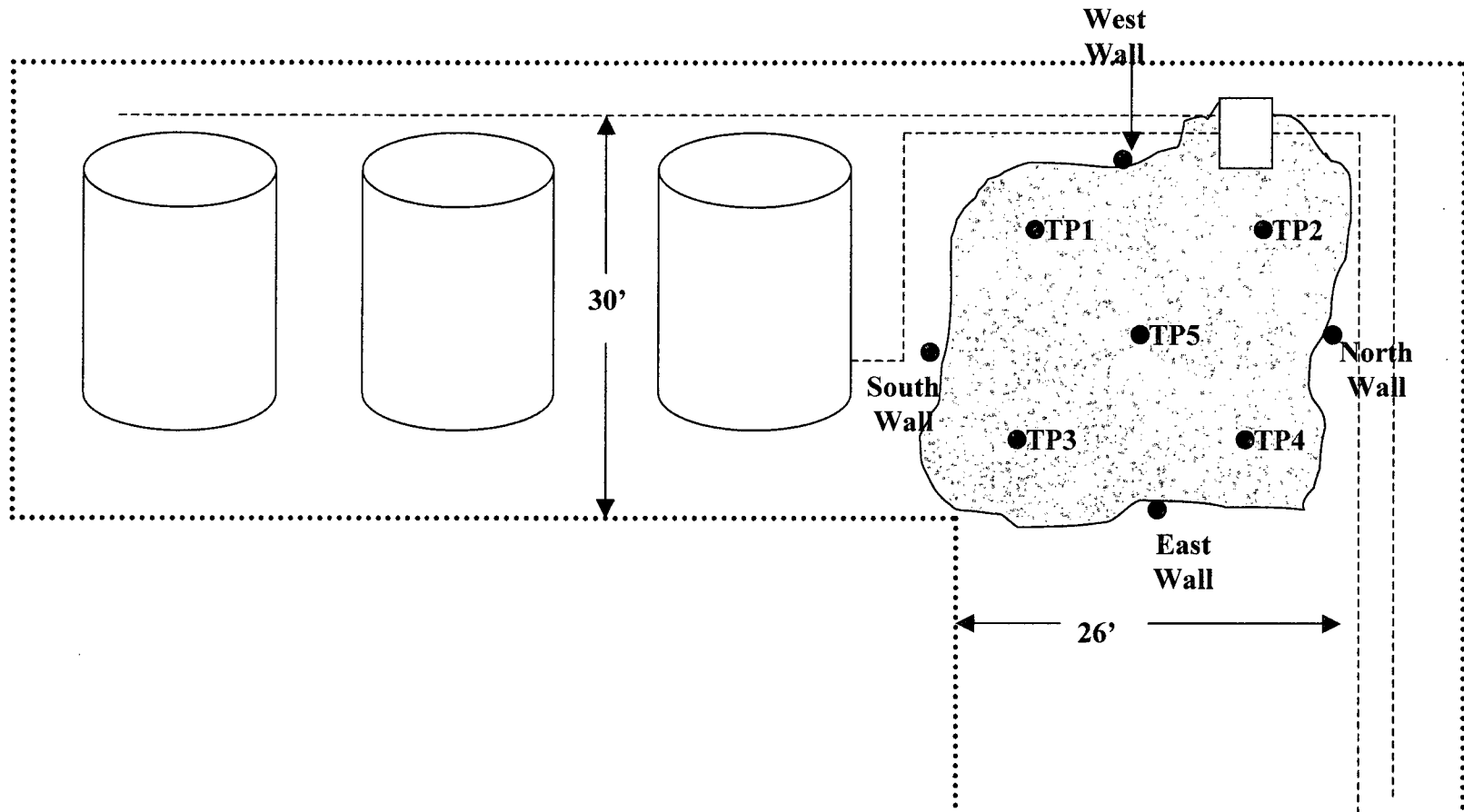


Logan Anderson

Oxy USA

Sundance 10 Federal #1 Battery

Plat Map



Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form**Client** Oxy USA **Analyst** Curtis Elam**Site** Sundance 10 Federal #1 Battery

Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
TP1	4-6-09	2'	20,100			32° 14.272' N 103° 46.412' W
TP1	4-6-09	5'	18,780			32° 14.272' N 103° 46.412' W
TP1	4-6-09	8'	2,130	199	13.5	32° 14.272' N 103° 46.412' W
TP1	4-8-09	15'	50	144	0.1	32° 14.272' N 103° 46.412' W
TP2	4-6-09	2'	19,870			32° 14.272' N 103° 46.414' W
TP2	4-6-09	5'	18,100			32° 14.272' N 103° 46.414' W
TP2	4-6-09	8'	3,250	199	67.0	32° 14.272' N 103° 46.414' W
TP2	4-8-09	15'	101	211	0.1	32° 14.272' N 103° 46.414' W
TP3	4-6-09	2'	22,500			32° 14.274' N 103° 46.412' W
TP3	4-6-09	5'	16,370			32° 14.274' N 103° 46.412' W
TP3	4-6-09	8'	1,450	211	20.7	32° 14.274' N 103° 46.412' W
TP3	4-8-09	15'	30	213	0.1	32° 14.274' N 103° 46.412' W
TP4	4-6-09	2'	21,800			32° 14.274' N 103° 46.416' W
TP4	4-6-09	5'	12,300			32° 14.274' N 103° 46.416' W
TP4	4-6-09	8'	2,680	241	45.2	32° 14.274' N 103° 46.416' W
TP4	4-8-09	15'	45	90	0.2	32° 14.274' N 103° 46.416' W

Analyst Notes _____

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form**Client** Oxy USA **Analyst** Curtis Elam**Site** Sundance 10 Federal #1 Battery

Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
TP5	4-6-09	2'	19,100			32° 14.273' N 103° 46.413' W
TP5	4-6-09	5'	13,140			32° 14.273' N 103° 46.413' W
TP5	4-6-09	8'	1,100	189	12.7	32° 14.273' N 103° 46.413' W
TP5	4-8-09	15'	27	131	0.1	32° 14.273' N 103° 46.413' W
North Wall	4-9-09	4'	35	146	0.1	32° 14.276' N 103° 46.414' W
South Wall	4-9-09	4'	37	131	0.2	32° 14.270' N 103° 46.414' W
East Wall	4-9-09	4'	26	156	0.1	32° 14.273' N 103° 46.410' W
West Wall	4-9-09	4'	15	177	0.1	32° 14.273' N 103° 46.418' W
Pile 1	4-6-09		4,010	631	56.9	
Pile 2	4-6-09		3,330	598	44.7	
Pile 3	4-7-09		2,890	629	33.9	
Pile 4	4-8-09		2,910	700	35.7	

Analyst Notes Pile samples are 5 point composites.

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: Range: Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic
☒ All

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

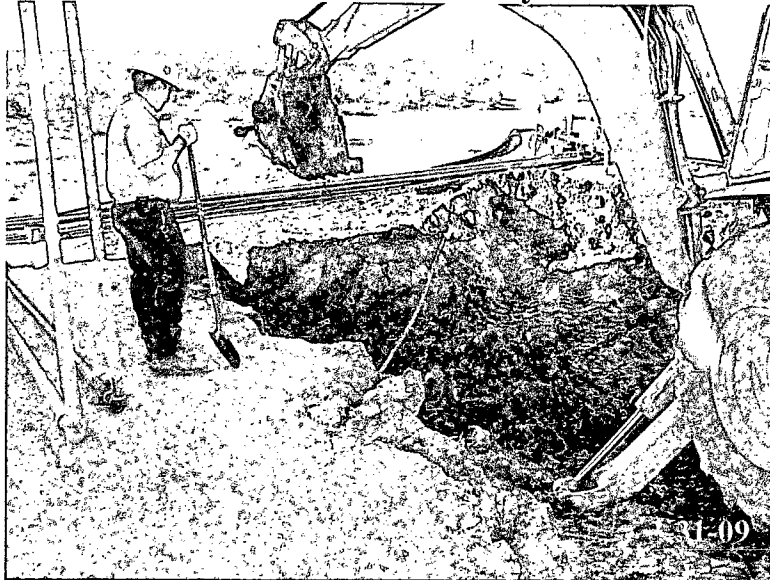
Help

AVERAGE DEPTH OF WATER REPORT 03/26/2009

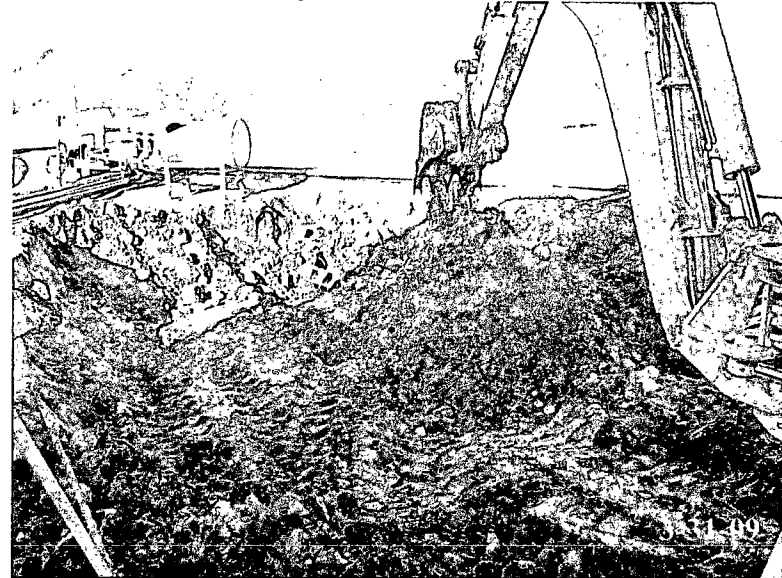
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
C	24S	31E	02				3	160	212	192

Record Count: 3

Oxy USA – Sundance 10 Federal #1 Battery



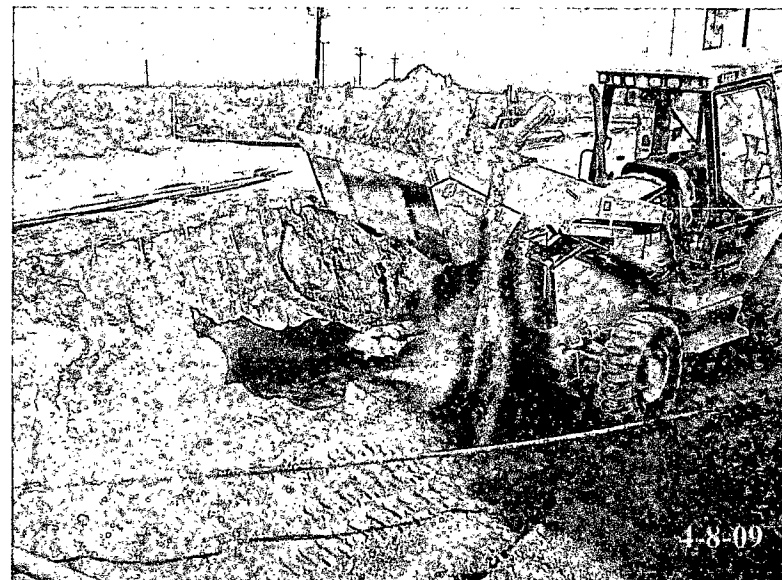
Excavation of impacted soil.



Excavation of impacted soil.

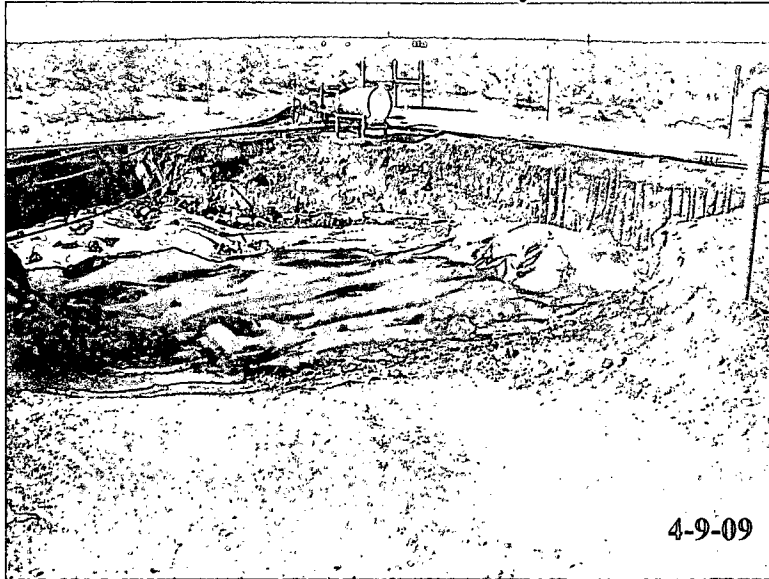


After excavation of impacted soil.

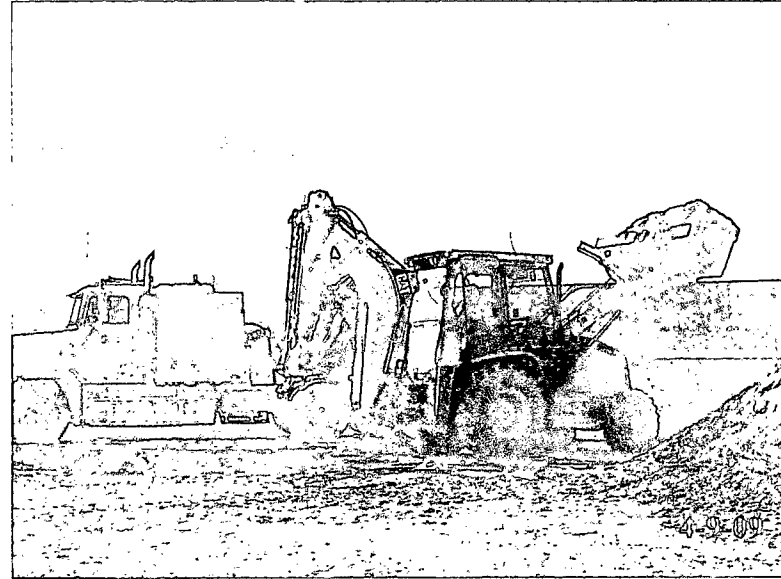


Backfilling blended soil to four foot bgs.

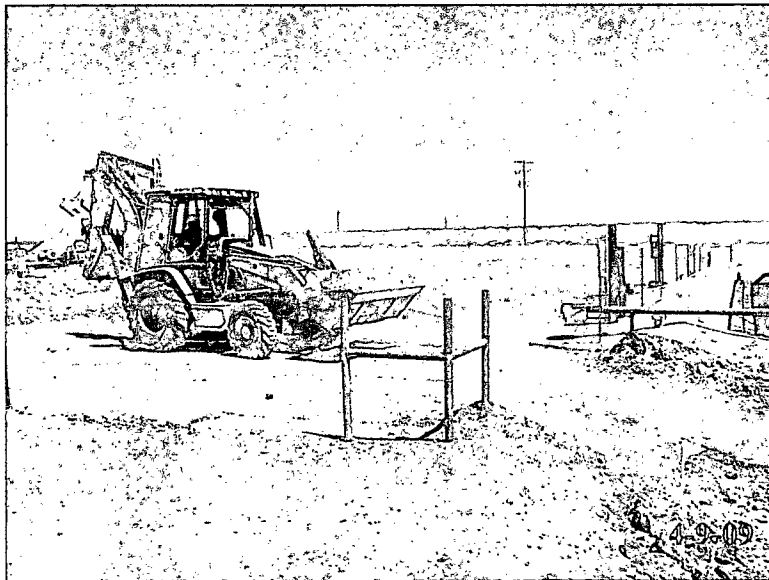
Oxy USA – Sundance 10 Federal #1 Battery



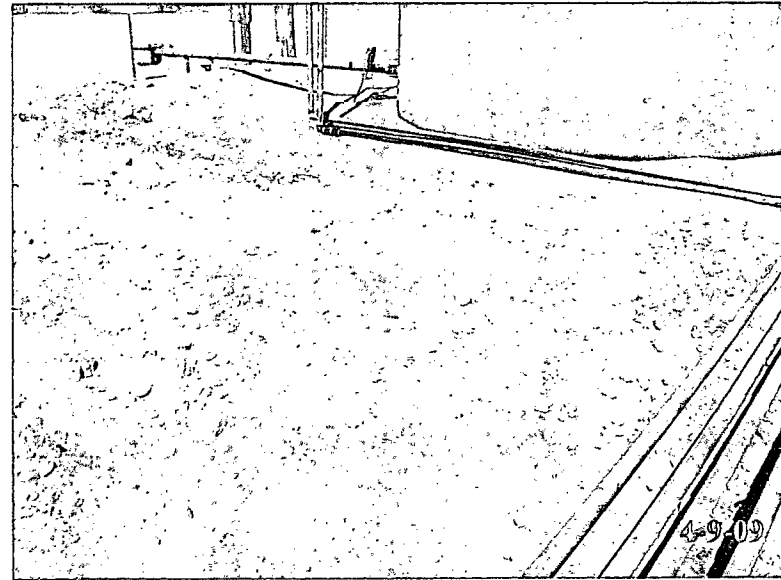
After installation of 20 mil poly liner.



Loading impacted soil to be hauled to Lea Land Disposal.



Backfilling clean native soil.



After backfill of clean native soil and contouring to grade.

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (505) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO **067102**

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2. TRAILER NO.

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3. COMPANY NAME

OXY USA

PHONE NO.

4. ADDRESS

102 S. Main Street

CITY

STATE

ZIP

Carlsbad

NM

88220

5. PICK-UP DATE

4.9.09

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non-Hazardous Waste

b.

c.

2 Sundance 139800 38140

12. COMMENTS OR SPECIAL INSTRUCTIONS:

Sundance 139800 38140

13. WASTE PROFILE NO.

703594

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO.

24-HOUR EMERGENCY NO.

Kim Slaughter

505-887-4048

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

16. TRANSPORTER (1)

NAME: ETK Environmental Inc.

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME Eric Roman

SIGNATURE Eric Roman

DATE 4/9

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

505-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

Santos Contreras

CELL NO.

DATE

4.9.09

TIME

825

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (505) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Solis

NON-HAZARDOUS WASTE MANIFEST

NO 067122

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3. COMPANY NAME

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PHONE NO.

4. ADDRESS

102 S. Main Street

CITY

STATE

ZIP

Carlsbad

NM

88220

5. PICK-UP DATE

4.9.09

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non Hazardous Waste

b.

c.

d. 42680 ② 40180

8. CONTAINERS

No.

Type

1

CM

9. TOTAL

QUANTITY

10. UNIT

Wt/Vol.

11. TEXAS

WASTE ID #

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

708594

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

Kim Slaughter

PHONE NO.

505-887-4048

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled; and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

16. TRANSPORTER (1)

NAME: LEK ENVIRONMENTAL, Inc

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

Marco A. Solis

SIGNATURE

[Signature]

DATE

4/9

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

505-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

[Signature]

CELL NO.

DATE

4.9.09

TIME

820

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (505) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST		NO	067103	1. PAGE	OF	2. TRAILER NO.	0512		
G E N E R A T O R	3. COMPANY NAME OXY USA PHONE NO.	4. ADDRESS 102 S. Main Street CITY STATE ZIP Carlsbad NM 88220			5. PICK-UP DATE 4.9.09				
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
	a. Non-Regulated, Non-Hazardous Waste			1	CM				
	b.								
	c.								
A T T R I B U T E	12. COMMENTS OR SPECIAL INSTRUCTIONS: Sundance 10 Federal #1			13. WASTE PROFILE NO. 708504					
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
	NAME Kin Slaughter		PHONE NO. 505-887-4048		24-HOUR EMERGENCY NO.				
T R A N S P O R T E R S	15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC								
	PRINTED/TYPED NAME			SIGNATURE		DATE			
	16. TRANSPORTER (1) NAME: EIK Environmental TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:			17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					
D I S P O S I T Y	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Christian Molina SIGNATURE [Signature] DATE 4/9			19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE					
	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy. 62/180, 30 Miles East of Carlsbad, NM		PHONE: 505-887-4048				
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS						
21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
AUTHORIZED SIGNATURE [Signature]			CELL NO.		DATE 4.9.09		TIME 830		

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (505) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

DL

NON-HAZARDOUS WASTE MANIFEST

NO **067101**

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2. TRAILER NO. **DL421**

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3. COMPANY NAME

OKY USA

PHONE NO.

4. ADDRESS

102 S. Main Street

CITY

STATE

ZIP

Carlsbad

NM

88220

5. PICK-UP DATE

4-9-09

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non-Hazardous Waste

b.

c.

d.

44280 42280

8. CONTAINERS

No.

Type

9. TOTAL QUANTITY

10. UNIT Wt/Vol.

11. TEXAS WASTE ID

1

CM

12. COMMENTS OR SPECIAL INSTRUCTIONS:

Blendure 10 Federal 41

13. WASTE PROFILE NO.

708594

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO.

24-HOUR EMERGENCY NO.

Jim Spangler

505-887-4048

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

16. TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

Sergio Moya

Sergio Moya

4-9-09

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy. 62/180,
30 Miles East of Carlsbad, NM

PHONE:

505-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

[Signature]

[Signature]

4-9-09

825

Analytical Report 330776

for

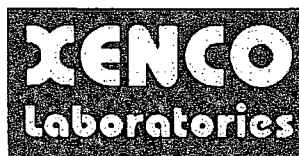
Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy USA

Sundance 10 Fed # 1

27-APR-09



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-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



27-APR-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: **330776**
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 330776. 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. 330776 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.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



Sample Cross Reference 330776



Elke Environmental, Inc., Odessa, TX

Oxy USA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP 1 @ 15'	S	Apr-09-09 10:15	15 ft	330776-001
TP 2 @ 15'	S	Apr-09-09 10:21	15 ft	330776-002
TP 3 @ 15'	S	Apr-09-09 10:27	15 ft	330776-003
TP 4 @ 15'	S	Apr-09-09 10:37	15 ft	330776-004
TP 5 @ 15'	S	Apr-09-09 10:46	15 ft	330776-005
Pile	S	Apr-09-09 14:30		330776-006



Certificate of Analysis Summary 330776

Elke Environmental, Inc., Odessa, TX



Project Name: Oxy USA

Project Id: Sundance 10 Fed # 1

Date Received in Lab: Apr-22-09 04:25 pm

Contact: Logan Anderson

Report Date: 27-APR-09

Project Location:


Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	330776-001	330776-002	330776-003	330776-004
	Field Id:	TP 1 @ 15'	TP 2 @ 15'	TP 3 @ 15'	TP 4 @ 15'
	Depth:	15 ft	15 ft	15 ft	15 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sampled:	Apr-09-09 10:15	Apr-09-09 10:21	Apr-09-09 10:27	Apr-09-09 10:37
Anions by EPA 300	Extracted:				
	Analyzed:	Apr-23-09 08:15	Apr-23-09 08:15	Apr-23-09 08:15	Apr-23-09 08:15
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		12.0 5.16	14.8 5.16	103 10.3	12.8 5.17
Percent Moisture	Extracted:				
	Analyzed:	Apr-22-09 17:00	Apr-22-09 17:00	Apr-22-09 17:00	Apr-22-09 17:00
	Units/RL:	% RL	% RL	% RL	% RL
Percent Moisture		3.11 1.00	3.06 1.00	2.77 1.00	3.35 1.00
TPH By SW8015 Mod	Extracted:	Apr-22-09 19:37	Apr-22-09 19:37	Apr-22-09 19:37	Apr-22-09 19:37
	Analyzed:	Apr-23-09 13:41	Apr-23-09 14:06	Apr-23-09 14:30	Apr-23-09 14:55
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 15.5	ND 15.5	ND 15.4	ND 15.5
C12-C28 Diesel Range Hydrocarbons		148 15.5	126 15.5	57.6 15.4	111 15.5
C28-C35 Oil Range Hydrocarbons		65.1 15.5	59.7 15.5	ND 15.4	50.8 15.5
Total TPH		213.1 15.5	185.7 15.5	57.6 15.4	161.8 15.5

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.

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

Version: 1.009


Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 330776

Elke Environmental, Inc., Odessa, TX



Project Name: Oxy USA

Project Id: Sundance 10 Fed # 1

Date Received in Lab: Apr-22-09 04:25 pm

Contact: Logan Anderson

Report Date: 27-APR-09

Project Location:


Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	330776-005	330776-006		
	Field Id:	TP 5 @ 15'	Pile		
	Depth:	15 ft			
	Matrix:	SOIL	SOIL		
	Sampled:	Apr-09-09 10:46	Apr-09-09 14:30		
Anions by EPA 300	Extracted:				
	Analyzed:	Apr-23-09 08:15	Apr-23-09 08:15		
	Units/RL:	mg/kg RL	mg/kg RL		
Chloride		17.9 5.17	579 10.3		
Percent Moisture	Extracted:				
	Analyzed:	Apr-22-09 17:00	Apr-22-09 17:00		
	Units/RL:	% RL	% RL		
Percent Moisture		3.27 1.00	3.08 1.00		
TPH By SW8015 Mod	Extracted:	Apr-22-09 19:37	Apr-22-09 19:37		
	Analyzed:	Apr-23-09 15:21	Apr-23-09 17:25		
	Units/RL:	mg/kg RL	mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons		ND 15.5	46.0 15.5		
C12-C28 Diesel Range Hydrocarbons		110 15.5	1270 15.5		
C28-C35 Oil Range Hydrocarbons		52.5 15.5	101 15.5		
Total TPH		162.5 15.5	1417 15.5		

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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Version: 1.009


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.

* Outside XENCO's scope of NELAC Accreditation.

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(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 330776,

Project ID: Sundance 10 Fed # 1

Lab Batch #: 756794

Sample: 528743-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/23/09 10:21

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	100	110	70-135	
o-Terphenyl	50.4	50.0	101	70-135	

Lab Batch #: 756794

Sample: 528743-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/23/09 10:46

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	51.9	50.0	104	70-135	

Lab Batch #: 756794

Sample: 528743-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/23/09 11:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.3	100	95	70-135	
o-Terphenyl	55.9	50.0	112	70-135	

Lab Batch #: 756794

Sample: 330776-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/23/09 13:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	58.0	50.0	116	70-135	

Lab Batch #: 756794

Sample: 330776-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/23/09 14:06

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.6	100	99	70-135	
o-Terphenyl	56.3	50.0	113	70-135	

** 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 : 330776,

Project ID: Sundance 10 Fed # 1

Lab Batch #: 756794

Sample: 330776-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/23/09 14:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.6	100	97	70-135	
o-Terphenyl	54.5	50.0	109	70-135	

Lab Batch #: 756794

Sample: 330776-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/23/09 14:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.7	100	96	70-135	
o-Terphenyl	54.8	50.0	110	70-135	

Lab Batch #: 756794

Sample: 330776-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/23/09 15:21

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.9	100	92	70-135	
o-Terphenyl	52.6	50.0	105	70-135	

Lab Batch #: 756794

Sample: 330776-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/23/09 17:25

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	63.4	50.0	127	70-135	

Lab Batch #: 756794

Sample: 330776-003 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/23/09 18:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	54.4	50.0	109	70-135	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 \times A / B$

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



Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 330776,

Project ID: Sundance 10 Fed # 1

Lab Batch #: 756794

Sample: 330776-003 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/23/09 18:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	54.9	50.0	110	70-135	

** 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 #: 330776

Project ID: Sundance 10 Fed # 1

Lab Batch #: 757013

Sample: 757013-1-BKS

Matrix: Solid

Date Analyzed: 04/23/2009

Date Prepared: 04/23/2009

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	10.6	106	80-120	

Blank Spike Recovery [D] = $100 * [C] / [B]$

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

ersion: 1.009



BS / BSD Recoveries



Project Name: Oxy USA

Work Order #: 330776

Analyst: ASA

Date Prepared: 04/22/2009

Project ID: Sundance 10 Fed # 1

Date Analyzed: 04/23/2009

Lab Batch ID: 756794

Sample: 528743-1-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	1000	100	1000	1020	102	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	975	98	1000	1010	101	4	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 #: 330776

Lab Batch #: 757013

Project ID: Sundance 10 Fed # 1

Date Analyzed: 04/23/2009

Date Prepared: 04/23/2009

Analyst: LATCOR

QC- Sample ID: 330776-001 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	12.0	103	118	103	80-120	

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

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

All Results are based on MDL and Validated for QC Purposes

Revision: 1.009



Form 3 - / MSD Recoveries



Project Name: Oxy USA

Work Order # 330776

Project ID: Sundance 10 Fed # 1

Lab Batch ID: 756794

QC- Sample ID: 330776-003 S

Batch #: 1 Matrix: Soil

Date Analyzed: 04/23/2009

Date Prepared: 04/22/2009

Analyst: ASA

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	1030	1080	105	1030	1090	106	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	57.6	1030	1090	100	1030	1100	101	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
ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Oxy USA

Work Order #: 330776

Lab Batch #: 757013

Date Analyzed: 04/23/2009

QC- Sample ID: 330776-001 D

Reporting Units: mg/kg

Project ID: Sundance 10 Fed # 1

Analyst: LATCOR

Date Prepared: 04/23/2009

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	12.0	10.6	12	20	

Lab Batch #: 756673

Date Analyzed: 04/22/2009

QC- Sample ID: 330701-001 D

Reporting Units: %

Date Prepared: 04/22/2009

Batch #: 1

Analyst: BEV

Matrix: Solid

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	16.4	15.6	5	20	

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

A Xenon Laboratories Company

Sampler Signature:

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-1800
Fax: 432-563-1713

PO#:

Report Format: ☒ Standard ☐ TRAP ☐ NPDES

e-mail: la. elkeen@yahoo.com

[illegible]

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Elke Env.
Date/ Time: 4-22-09 16:25
Lab ID #: 330716
Initials: AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	5.0 °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
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

OCT 29 2008

OCD-ARTESIA

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 102 S Main Carlsbad, NM 88220	Telephone No. (O) 505-887-8337 C) 575-390-1903
Facility Name Sundance 10 fed. 1	Facility Type Well
SUNDANCE 10 FEDERAL 001	
Surface Owner BLM	Mineral Owner
Lease No.	

30 015 28122

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	10	24S	31R					Eddy

Latitude _____ Longitude _____

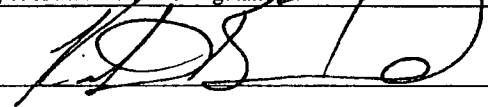
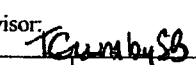
NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 12	Volume Recovered 10
Source of Release circulating pump barrel	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Sherry Bohnam- NMOCD (left message) Jim Amos-BLM (left message)	10-24-08 12pm
By Whom?	Date and Hour See above	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.*
Circulating pump barrel ran over causing oil to be released on the ground

Describe Area Affected and Cleanup Action Taken.*
The area affected was inside the bermed containment. A vac-truck was called to pick up all remaining fluid A clean-up plan will be submitted for approval

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: 	Remediation Actions to be completed and Final C-141 submitted with confirmation analyses/documentation on or before the Expiration Date.
Title: HES Specialist	Approval Date: 10-29-08	Expiration Date: 12-29-08
E-mail Address: kelton_beaird@oxy.com	Conditions of Approval: Within 30 days, on or before 12-1-08, completion of a remediation work plan based on delineation should be finalized and submitted for approval to the Division summarizing all actions taken and/or to be taken to mitigate environmental damage	Attached <input type="checkbox"/> 2RP - 261
Date: 10-27-08	Notify OCD 48 hours prior to obtaining samples where analyses are to be presented to OCD	

* Attach Additional Sheets If Necessary

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
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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 – P O Box 1988 / 102 South Main St Carlsbad, NM	Telephone No. – 575-887-8337	
Facility Name – Sundance 10 Fed #1	Facility Type – Well Site	
Surface Owner – BLM	Mineral Owner –	Lease No. 30-015-28122

LOCATION OF RELEASE

Unit Letter D	Section 10	Township 24S	Range 31E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude 32° 14.276' N Longitude 103° 46.395' W

NATURE OF RELEASE

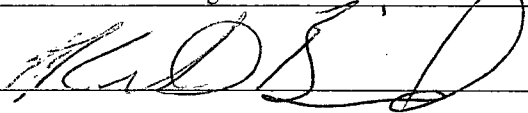
Type of Release – Crude Oil	Volume of Release – 12 bbls	Volume Recovered – 10 bbls
Source of Release – Circulating Pump Barrel	Date and Hour of Occurrence 10-24-08	Date and Hour of Discovery – 10-24-08 @ 12:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Sherry Bohnam – NMOCD Jim Amos – BLM	
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.* Circulating pump barrel ran over causing oil to be released on the ground. The spill was contained inside the berm. All standing fluid was picked up by a vacuum truck. The groundwater in the surrounding area shows > 100' using the SEO data and Chevron/Texaco Groundwater Map. The following are the recommended action levels for the site : Chloride – 250 ppm, TPH – 5,000 ppm, BTEX – 100 ppm(field vapor analysis).

Describe Area Affected and Cleanup Action Taken.* All impacted soil above RAL's was excavated and blended onsite. The pile tested below the RAL's except for the chloride levels. The chloride levels were approx. 600 ppm. The blended soil was backfilled into the excavation to a depth of 4' bgs. A 20 mil poly liner was installed with 4 oz. Geotextile liner below and above the poly liner. The remaining impacted soil was hauled to Lea Land Disposal and clean native soil was backfilled to grade inside the battery. The enclosed closure report includes a plat map, field analytical, pictures, groundwater data and confirmation lab samples.

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 <input type="checkbox"/>
Date: <u>5-7-09</u> Phone: 575-887-8337			

* Attach Additional Sheets If Necessary