



API Well Number Banner

Report Description

This report shows a Well's API Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



30025373820000

30 25 37382

SUNFLOWER 28 STATE No.002

BP AMERICA PRODUCTION COMPANY

2/13/2008

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

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: <u>BP America Production Company</u> Telephone: <u>(505) 394-1600</u> e-mail address: <u>Margaret.Lowe@bp.com</u>		
Address: <u>P.O. Box 1089 Eunice, NM 88231</u>		
Facility or well name: <u>Sunflower 28 #2</u> API#: <u>30-025-37382</u> U/L or Qtr/Qtr <u>UL-M</u> Sec <u>28</u> T <u>17S</u> R <u>34E</u>		
County: <u>Lea</u> Latitude <u>N 32° 48' 1.16"</u> Longitude <u>W 103° 34' 11.56"</u> NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>		
Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input checked="" type="checkbox"/> Indian <input type="checkbox"/>		
RECEIVED		
Pit Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>20</u> mil Clay <input type="checkbox"/> Pit Volume <u>13,900</u> bbl	Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: _____	FEB 13 2008 HOBBS OCD
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points) 118 feet
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) X
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) X
Ranking Score (Total Points)		0

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results.

(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: All fluids were removed from the pit. The burial pit was constructed adjacent to (east of) the drilling pit. The burial pit was lined with a 20 ml liner. Drilling mud was mixed with caliche, and placed in the burial pit, along with the pit liner. The contents of the burial pit were completely encapsulated, capped with a 20 ml liner, and covered with 3 feet of topsoil to grade.

Soil samples were collected below the liner and the NE corner of the pit was excavated to a depth of 32 feet below ground surface. A soil boring was installed 15 feet from the NE corner of the pit and samples were collected to a depth of 62' bgs. Upon approval by the NMOCD, the entire excavation was backfilled to a depth of 7' bgs and a clay layer was installed to a depth of approximately 6 feet bgs. The clay was compacted to 95% proctor density. The excavation was backfilled with caliche from 6 feet bgs to approximately 3 feet bgs, and native topsoil from a depth of 3 feet bgs to surface. The surface was graded to native surroundings and the area was re-seeded.

A drawing is attached that shows the sample and soil borings locations. Also attached is a well log of boring BH-1 and all analytical data from samples collected at the site.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: February 4, 2008

Printed Name/Title: Cindy Crain, Geologist / As Agent for BP America

Signature

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

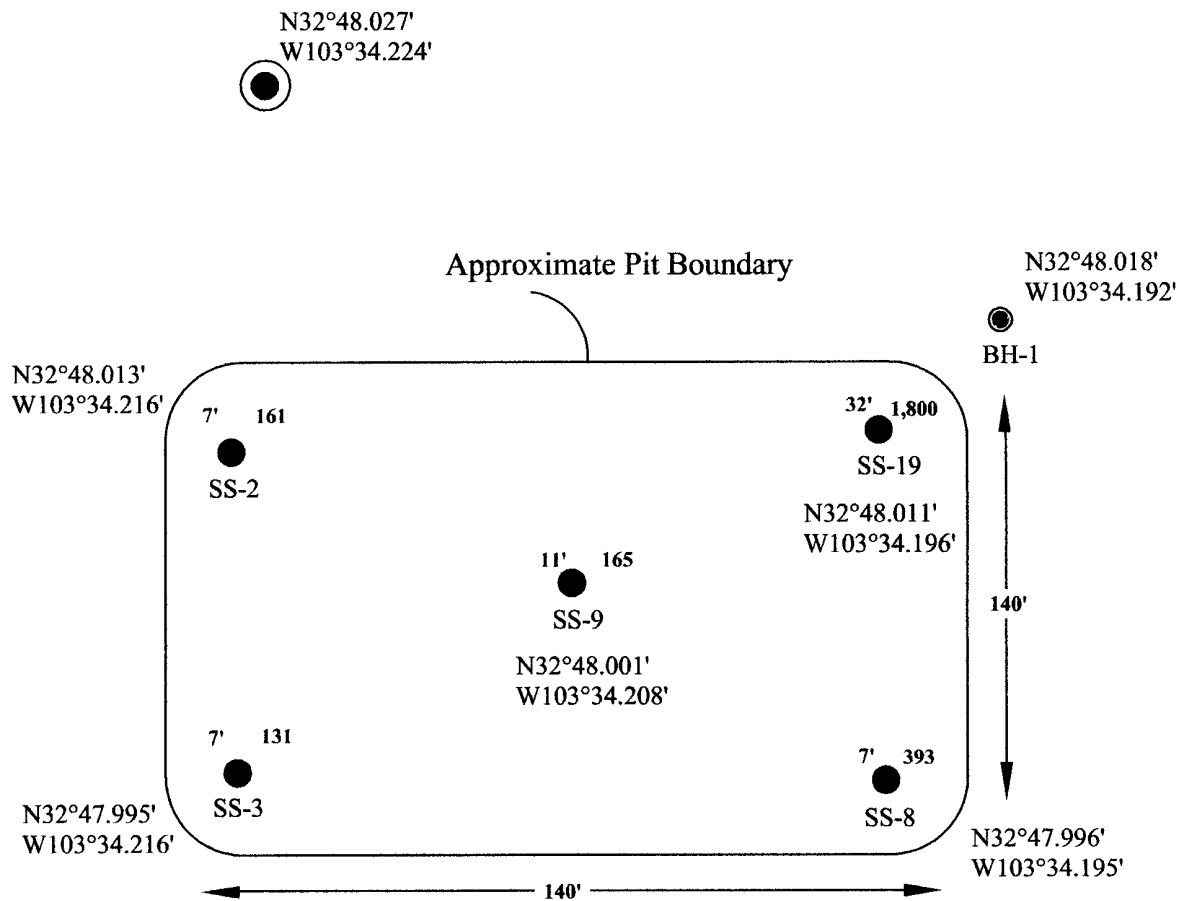
Approval:

Printed Name/Title

ENVIRONMENTAL ENGINEER

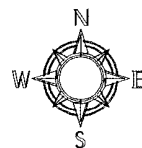
Date:

2.13.08



LEGEND

- 670
SS-18
Soil sample location for composite sample SS-18 taken at a depth, feet, with chloride concentration (mg/kg).
- BH-1
Borehole location drilled 7/17/07
- N32°48.013' W103°34.216'
GPS Coordinates
- Well location



DATE: 7-29-07
NAME: CHH
PROJECT NO.: 6-1401

FIGURE # 1

LEA COUNTY, NEW MEXICO



Sunflower 28 State Well #2

U.L.M, Sec.28, T17S, R34E

Site Drawing

(Not to Scale)

Ocotillo
ENVIRONMENTAL

**BP America Production Company
Sunflower 28-2 Pit Closure Plan**

Will dig deep bury pit & line with 20 mil plastic, use caliche from the Bullred St. 6 # 1 loc that is stored on loc. to firm up cuttings, lay mixed cuttings in deep bury pit, sew a 20 mil cap to liner & cover pit & leave 3'-4' of cover on top of cuttings

Pit # 1 Deep Bury & line w/ 20 mil 180'L x 30' W x 18'D

Pit # 2 Deep Bury & line w/ 20 mil 180'L x 30' W x 18'D

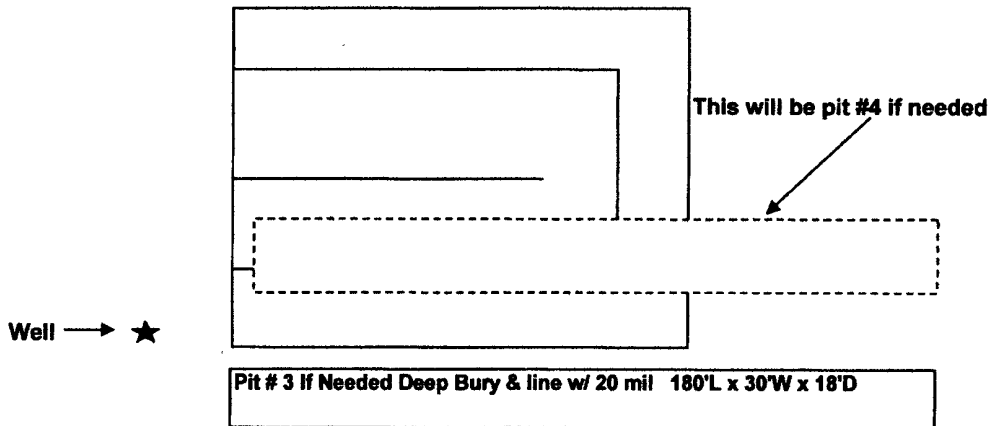


Table 1: Summary of Laboratory Analysis of Soil Samples
BP Sunflower 28 #2
Unit Letter M, Section 28, Township 17 South, Range 34 East
Lea County, New Mexico

Sample Date	Soil Sample Number	Sample Depth (feet BGS)	Sample Location	Chloride (mg/kg)
2/15/07	SS-2	7	NW Corner	161
2/15/07	SS-3	7	SW Corner	131
2/15/07	SS-8	7	SE Corner	393
2/15/07	SS-9	11	Center	165
2/19/07	SS-19	32	NE Corner	1,800
7/17/07	BH-1	20-22	---	21.3
		25-27	---	31.9
		30-32	---	21.3
		35-37	---	21.3
		40-42	---	21.3
		45-47	---	21.3
		50-52	---	447.0
		55-57	---	95.7
		60-62	---	53.2

1. BGS: Depth in feet below ground surface
2. mg/kg: Milligrams per kilogram

BP – Sunflower 28 State Well #2 Pit

OCD Communication

June 4, 2007

On Monday, June 4, 2007, Margaret Lowe, of BP and Cindy Crain, of Ocotillo Environmental, LLC, met with Mr. Chris Williams of the NMOCD, Hobbs office, to discuss backfilling of the Sunflower 28 State Well #2 drilling pit. The pit is located in Unit Letter M, Section 28, Township 17 South, Range 34 East, Lea County, New Mexico.

After informing Mr. Williams of the current depth of the pit and laboratory results of soil samples collected therein, BP proposed backfilling of the pit to a depth of seven (7) feet below ground surface (bgs) and covering with a plastic liner, pending results of additional vertical delineation activities.

Approval has been previously granted by the OCD (Larry Johnson) to install a soil boring approximately 15 feet northeast of the pit in order to provide vertical delineation of chloride impacts to soil. BP will install the soil boring as soon as drilling can be scheduled.

At 2:00 pm, on June 4, 2007, Mr. Williams granted verbal approval for BP to backfill the Sunflower 28 State Well #2 pit and install a clay liner. BP intends to backfill the pit, beginning June 7, 2007, to a depth of nine (9) feet bgs and install a clay barrier upon completion of vertical delineation activities.

Client: BP

Project: Sunflower 28 State Well #2

Project No.: 6-1401

Location: U.L.M, Sec. 28, T17S, R34E, Lea County, New Mexico

Log: BH-1

Page: 1 of 2

Geologist: Cindy Crain

SUBSURFACE PROFILE			SAMPLE			Field Chloride	Laboratory Results
Depth	Symbol	Description	Number	Type	Recovery	Data mg/kg	
0		Ground Surface				0 250 500	
		Caliche Pinkish white, indurated quartz sand, very fine grained, dry.					
10							
20			1			550	20- 22' bgs Chloride: 21.3 mg/kg
			2			550	25- 27' bgs Chloride: 31.9 mg/kg
30			3			550	30- 32' bgs Chloride: 21.3 mg/kg
			4			550	35- 37' bgs Chloride: 21.3 mg/kg
40			5			550	40- 42' bgs Chloride: 21.3 mg/kg
			6			550	45- 47' bgs Chloride: 21.3 mg/kg
50		Slightly Damp at 48'					

Drill Method: Air Rotary

Drill Date: 07/17/07

Hole Size:

Ocotillo
ENVIRONMENTAL
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A

Checked by: CKC

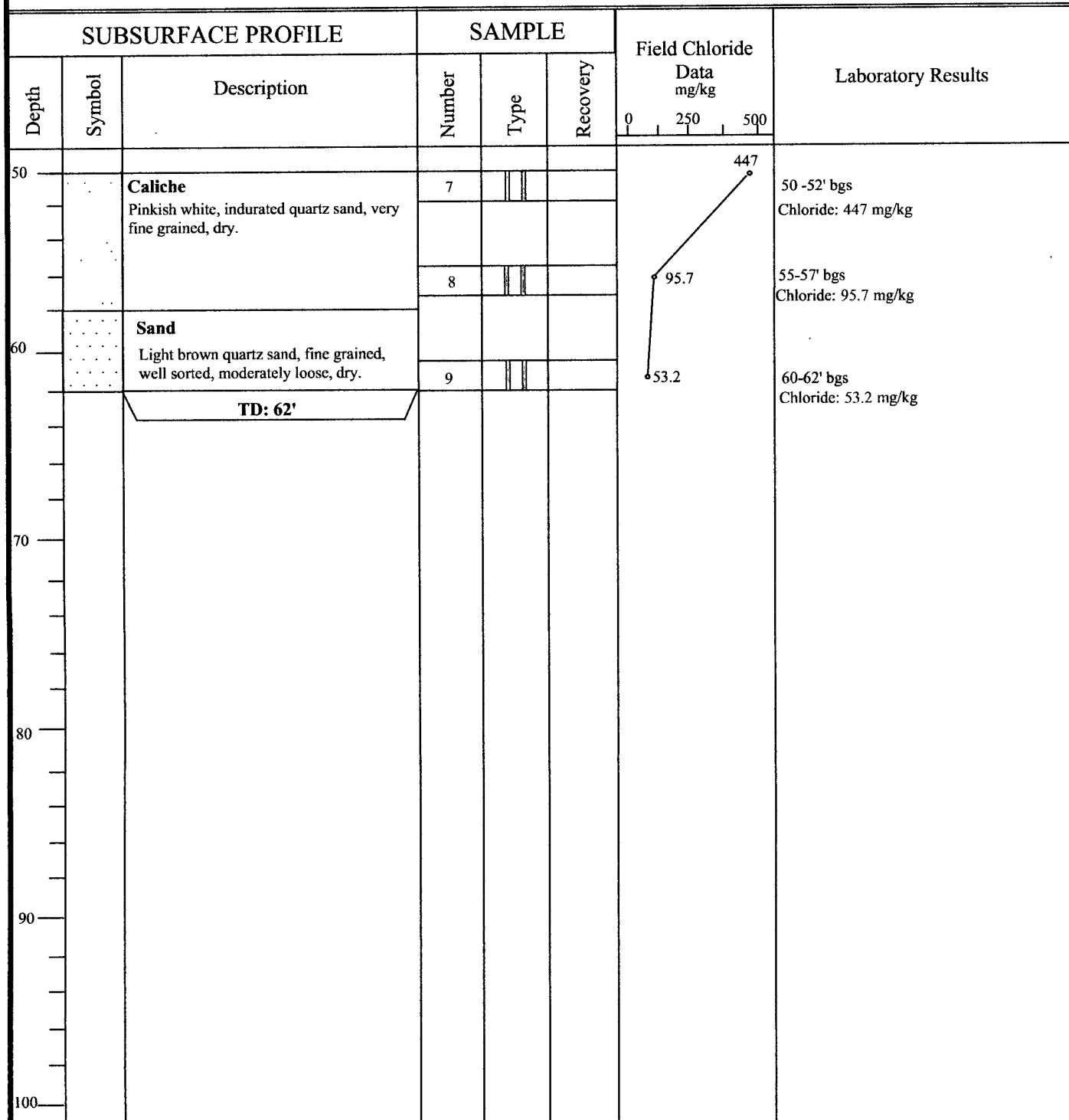
Drilled by:
Scarborough Drilling

Location: U.L.M, Sec. 28, T17S, R34E, Lea County, New Mexico

Log: BH-1

Page: 2 of 2

Geologist: Cindy Crain



Drill Method: Air Rotary

Drill Date: 07/17/07

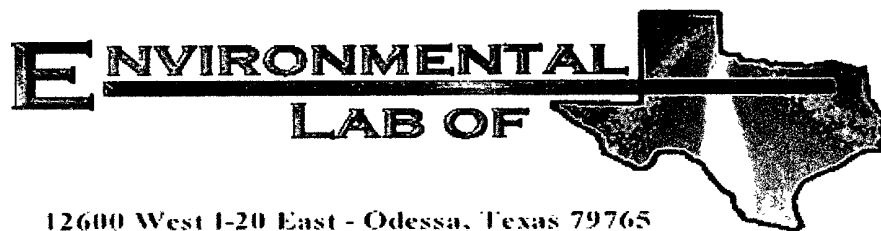
Hole Size:

Ocotillo
ENVIRONMENTAL
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A

Checked by: CKC

Drilled by:
Scarborough Drilling



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Cindy Crain

Ocotillo Environmental

2125 French Dr.

Hobbs, NM 88201

Project: Sunflower 28 State Well #2

Project Number: None Given

Location: Buckeye, NM

Lab Order Number: 7B19006

Report Date: 02/21/07

Ocotillo Environmental
2125 French Dr
Hobbs NM, 88201

Project Sunflower 28 State Well #2
Project Number None Given
Project Manager Cindy Crain

Fax: (432) 367-6747

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-2	7B19006-01	Soil	02/15/07 11:54	02-19-2007 14:35
SS-3	7B19006-02	Soil	02/15/07 11:57	02-19-2007 14:35
SS-8	7B19006-03	Soil	02/15/07 12:50	02-19-2007 14:35
SS-9	7B19006-04	Soil	02/15/07 12:55	02-19-2007 14:35
SS-18 Composite	7B19006-05	Soil	02/19/07 09:30	02-19-2007 14:35
SS-19	7B19006-06	Soil	02/19/07 09:30	02-19-2007 14:35

Ocotillo Environmental
2125 French Dr
Hobbs NM, 88201

Project Sunflower 28 State Well #2
Project Number None Given
Project Manager Cindy Crain

Fax. (432) 367-6747

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-2 (7B19006-01) Soil									
Chloride	161	5.00	mg/kg	10	EB72107	02/21/07	02/21/07	EPA 300.0	
SS-3 (7B19006-02) Soil									
Chloride	131	5.00	mg/kg	10	EB72107	02/21/07	02/21/07	EPA 300.0	
SS-8 (7B19006-03) Soil									
Chloride	393	10.0	mg/kg	20	EB72107	02/21/07	02/21/07	EPA 300.0	
SS-9 (7B19006-04) Soil									
Chloride	165	10.0	mg/kg	20	EB72107	02/21/07	02/21/07	EPA 300.0	
SS-18 Composite (7B19006-05) Soil									
Chloride	670	10.0	mg/kg	20	EB72107	02/21/07	02/21/07	EPA 300.0	
SS-19 (7B19006-06) Soil									
Chloride	1800	25.0	mg/kg	50	EB72107	02/21/07	02/21/07	EPA 300.0	

Environmental Lab of Texas

A Xenco Laboratories Company

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Page 2 of 6

Ocotillo Environmental
2125 French Dr
Hobbs NM, 88201

Project Sunflower 28 State Well #2
Project Number None Given
Project Manager Cindy Cram

Fax: (432) 367-6747

SPLP Extraction by EPA 1312

Environmental Lab of Texas

Analyte	Reporting		Units	Dilution	Batch	Extracted	Prepared	Analyzed	Method	Notes
	Result	Limit								
SS-19 (7B19006-06) Soil										
Chloride	109	5.00	mg/L	10	EB72108	splp 2/20/07	02/21/07	02/21/07	EPA 1312/300.0	

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Ocotillo Environmental
2125 French Dr
Hobbs NM, 88201

Project Sunflower 28 State Well #2
Project Number None Given
Project Manager Cindy Crain

Fax (432) 367-6747

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EB72107 - General Preparation (WetChem)

Blank (EB72107-BLK1)

Prepared & Analyzed: 02/21/07

Chloride ND 0.500 mg/kg

LCS (EB72107-BS1)

Prepared & Analyzed: 02/21/07

Chloride 10.6 0.500 mg/kg 10.0 106 80-120

Calibration Check (EB72107-CCV1)

Prepared & Analyzed: 02/21/07

Chloride 9.10 mg/L 10.0 91.0 80-120

Duplicate (EB72107-DUP1)

Source: 7B09013-01

Prepared & Analyzed: 02/21/07

Chloride 16.2 10.0 mg/kg 16.9 4.23 20

Matrix Spike (EB72107-MS1)

Source: 7B09013-01

Prepared & Analyzed: 02/21/07

Chloride 228 10.0 mg/kg 200 16.9 106 80-120

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Ocotillo Environmental
2125 French Dr
Hobbs NM, 88201

Project: Sunflower 28 State Well #2
Project Number: None Given
Project Manager: Cindy Crain

Fax (432) 367-6747

SPLP Extraction by EPA 1312 - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB72108 - General Preparation (WetChem)										
Blank (EB72108-BLK1)				Prepared & Analyzed: 02/21/07						
Chloride	ND	0.500	mg/L							
LCS (EB72108-BS1)				Prepared & Analyzed: 02/21/07						
Chloride	10.0	0.500	mg/L	10.0		100	80-120			
Calibration Check (EB72108-CCV1)				Prepared & Analyzed: 02/21/07						
Chloride	8.91		mg/L	10.0		89.1	80-120			
Duplicate (EB72108-DUP1)		Source: 7B19006-06		Prepared & Analyzed: 02/21/07						
Chloride	111	5.00	mg/L		109			1.82	20	
Matrix Spike (EB72108-MS1)		Source: 7B19006-06		Prepared & Analyzed: 02/21/07						
Chloride	216	50.0	mg/L	100	109	107	75-125			

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Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Sunflower 28 State Well #2
Project Number: None Given
Project Manager: Cindy Crain

Fax: (432) 367-6747

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date: 2/21/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Orcafillo
 Date/ Time: 2/19/07 2:35
 Lab ID #: 17BL9006
 Initials: UK

Sample Receipt Checklist

#	Question	Yes	No	Temperature	Client Initials
#1	Temperature of container/ cooler?			24.0 °C	
#2	Shipping container in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#3	Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#4	Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Present	
#5	Chain of Custody present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Present	
#6	Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#9	Container label(s) legible and intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID written on Container	
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable	
#11	Containers supplied by ELOT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#12	Samples in proper container/ bottle?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#13	Samples properly preserved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below	
#14	Sample bottles intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below	
#15	Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#16	Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#18	All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below	
#19	Subcontract of sample(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below	
#20	VOC samples have zero headspace?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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

Analytical Report 286114

for

Ocotillo Environmental, LLC

Project Manager: Cindy Crain

BP Sunflower 28 #2

6-1401

19-JUL-07



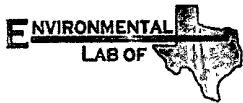
12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



19-JUL-07

Project Manager: **Cindy Crain**
Ocotillo Environmental, LLC
2125 French Drive
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **286114**
BP Sunflower 28 #2
Project Address: Buckeye, NM

Cindy Crain:

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 286114. 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. 286114 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,

A handwritten signature in black ink, appearing to read "Brent Barron", is written over a horizontal line.

Brent Barron

Odessa Laboratory Director

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 - Latin America



Sample Cross Reference 286114



Ocotillo Environmental, LLC, Hobbs, NM

BP Sunflower 28 #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1	S	Jul-17-07 10:03	20 - 22 ft	286114-001
BH-1	S	Jul-17-07 10:15	25 - 27 ft	286114-002
BH-1	S	Jul-17-07 10:24	30 - 32 ft	286114-003
BH-1	S	Jul-17-07 10:31	35 - 37 ft	286114-004
BH-1	S	Jul-17-07 10:42	40 - 42 ft	286114-005
BH-1	S	Jul-17-07 10:58	45 - 47 ft	286114-006
BH-1	S	Jul-17-07 11:08	50 - 52 ft	286114-007
BH-1	S	Jul-17-07 11:20	55 - 57 ft	286114-008
BH-1	S	Jul-17-07 11:30	60 - 62 ft	286114-009



Certificate of Analysis Summary 286114

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: BP Sunflower 28 #2

Project Id: 6-1401

Contact: Cindy Crain

Project Location: Buckeye, NM

Date Received in Lab: Tue Jul-17-07 03:25 pm


Report Date: 19-JUL-07

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	286114-001	286114-002	286114-003	286114-004	286114-005	286114-006
	<i>Field Id:</i>	BH-1	BH-1	BH-1	BH-1	BH-1	BH-1
	<i>Depth:</i>	20-22 ft	25-27 ft	30-32 ft	35-37 ft	40-42 ft	45-47 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jul-17-07 10:03	Jul-17-07 10:15	Jul-17-07 10:24	Jul-17-07 10:31	Jul-17-07 10:42	Jul-17-07 10:58
Total Chloride by SW 9253	<i>Extracted:</i>	Jul-18-07 14:00	Jul-18-07 14:00	Jul-18-07 14:00	Jul-18-07 14:00	Jul-18-07 14:00	Jul-18-07 14:00
	<i>Analyzed:</i>	Jul-18-07 14:00	Jul-18-07 14:00	Jul-18-07 14:00	Jul-18-07 14:00	Jul-18-07 14:00	Jul-18-07 14:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		21.3 5.00	31.9 5.00	21.3 5.00	21.3 5.00	21.3 5.00	21.3 5.00

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


Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 286114

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: BP Sunflower 28 #2

Project Id: 6-1401

Contact: Cindy Crain

Project Location: Buckeye, NM

Date Received in Lab: Tue Jul-17-07 03:25 pm


Report Date: 19-JUL-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	286114-007	286114-008	286114-009			
	Field Id:	BH-1	BH-1	BH-1			
	Depth:	50-52 ft	55-57 ft	60-62 ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Jul-17-07 11:08	Jul-17-07 11:20	Jul-17-07 11:30			
Total Chloride by SW 9253	Extracted:	Jul-18-07 14:00	Jul-18-07 14:00	Jul-18-07 14:00			
	Analyzed:	mg/kg RL	mg/kg RL	mg/kg RL			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		447 5.00	95.7 5.00	53.2 5.00			

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.

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5332 Blackberry Drive, Suite 104, San Antonio, TX 78238
2505 N. Falkenburg Rd., Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014

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(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Blank Spike Recovery



Project Name: BP Sunflower 28 #2

Work Order #: 286114

Project ID:

6-1401

Lab Batch #: 700597

Sample: 700597-1-BKS

Matrix: Solid

Date Analyzed: 07/18/2007

Date Prepared: 07/18/2007

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Total Chloride by SW 9253 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	100	92.5	93	75-125	

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

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



Form 3 - MS / MSD Recoveries



Project Name: BP Sunflower 28 #2

Work Order #: 286114

Project ID: 6-1401

Lab Batch ID: 700597

QC- Sample ID: 286114-009 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/18/2007

Date Prepared: 07/18/2007

Analyst: LATCOR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Total Chloride by SW 9253 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
Chloride	53.2	500	447	79	500	489	87	10	75-125	30	

Matrix Spike Percent Recovery $[D] = 100 \cdot (C-A)/B$
Relative Percent Difference $RPD = 200 \cdot (D-G)/(D+G)$

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

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

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79785

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

Project Manager Cindy Crain

Project Name: BP Sunflower 25#2

Company Name Ocotillo Environmental, LLC

Project #: 6-1401

Company Address PO Box 1816

Project Loc: Buckeye, NM

City/State/Zip: Hobbs, NM 88241

PO #: _____

Telephone No (505) 441-7244 Fax No (432) 272-0304

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature, e-mail: cindy.crain@gmail.com

e-mail: cindy.crain@gmail.com

Sampler Signature: _____ E-mail _____						Analysis For:																										
(lab use only)						TCLP TOTAL																										
ORDER #: 786114																																
LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filed	Total # of Containers	Pest.	HNO ₃	HCl	H ₂ SO ₄	NH ₄ OH	Na ₂ S ₂ O ₄	Other (Specify)	Dye-Densimetry Water @ Volume	Dye-Densimetry Sulfatefield	Absorbance Photocopy Density Other	TPH 418 I 901SM 901SE	TPH 1X 100S TX 100B	Cadmium (Cd, Mg, Na K)	Zinc (Zn) Cd Alkalinity	SAF HSP / DEC	Metallic Air Ag Bar Cu Cr Pb Mg Sr	Volatiles	Semivolatiles	BTEX BOD/BOD ₅ or D-15 BOD ₅	RCI	NORM	RUSH TAT (min-Schedule) 24, 48, 72 hrs		
BA	BH-1		20	22	7/7/07	1003		1							✓																	
BA	"		25	27	"	1015		1							✓																	
BA	"		30	32	"	1024		1							✓																	
BA	"		35	37	"	1031		1							✓																	
BA	"		40	42	"	1042		1							✓																	
BA	"		45	47	"	1058		1							✓																	
BA	"		50	52	"	1108		1							✓																	
BA	"		55	57	"	1120		1							✓																	
BA	"		60	62	"	1130		1							✓																	

Special Instructions:

Relinquished by <i>[Signature]</i>	Date 7/7/07	Time 1525	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by ELGI	Date	Time

Laboratory Comments:

- Sample Containers Intact? Y N/O
- VOCs Free of Headspace? Y Y
- Labels on container(s) Y Y
- Custody seals on container(s) Y Y
- Custody seals on cooler(s) Y N
- Sample Hand Delivered Y N
- by Sampler/Client Rep ? Y
- by Courier UPS DHL FedEx Lone Star
- Temperature Upon Receipt 33.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client Doyle Env.
 Date/ Time 7/17/07 15:25
 Lab ID # 286114
 Initials OK

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	33.0 ° 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 ELDT?	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

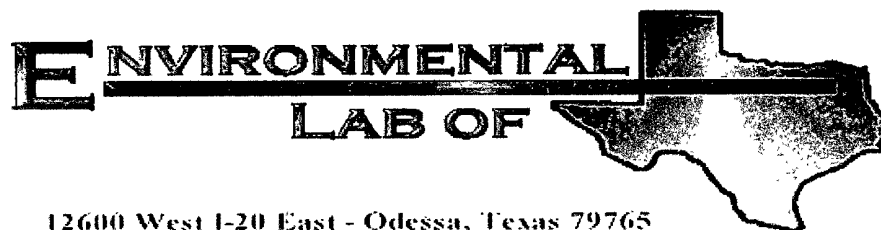
Variance Documentation

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



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Cindy Crain

Ocotillo Environmental

2125 French Dr.

Hobbs, NM 88201

Project: BP-Sunflower #28

Project Number: None Given

Location: Buckeye, NM

Lab Order Number: 7F07009

Report Date: 06/08/07

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project BP-Sunflower #28
Project Number None Given
Project Manager Cindy Crain

Fax: (432) 367-6747

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Spoil-SS-1	7F07009-01	Soil	06/07/07 13:35	06-07-2007 15:50
Spoil-SS-2	7F07009-02	Soil	06/07/07 13:37	06-07-2007 15:50
Spoil-SS-3	7F07009-03	Soil	06/07/07 13:40	06-07-2007 15:50

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: BP-Sunflower #28
Project Number: None Given
Project Manager: Cindy Crain

Fax (432) 367-6747

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Spoil-SS-1 (7F07009-01) Soil									
Chloride	74.7	5.00	mg/kg	10	EF70810	06/08/07	06/08/07	EPA 300.0	
Spoil-SS-2 (7F07009-02) Soil									
Chloride	44.0	5.00	mg/kg	10	EF70810	06/08/07	06/08/07	EPA 300.0	
Spoil-SS-3 (7F07009-03) Soil									
Chloride	59.0	5.00	mg/kg	10	EF70810	06/08/07	06/08/07	EPA 300.0	

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The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 4

Ocotillo Environmental
2125 French Dr
Hobbs NM, 88201

Project: BP-Sunflower #28
Project Number: None Given
Project Manager: Cindy Crain

Fax (432) 367-6747

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70810 - General Preparation (WetChem)										
Blank (EF70810-BLK1)				Prepared & Analyzed: 06/08/07						
Chloride	ND	0.500	mg/kg							
LCS (EF70810-BS1)				Prepared & Analyzed: 06/08/07						
Chloride	9.76	0.500	mg/kg	10.0		97.6	80-120			
Calibration Check (EF70810-CCV1)				Prepared & Analyzed: 06/08/07						
Chloride	8.41		mg/kg	10.0		84.1	80-120			
Duplicate (EF70810-DUP1)				Source: 7E25020-02 Prepared & Analyzed: 06/08/07						
Chloride	811	10.0	mg/kg		808			0.371	20	
Duplicate (EF70810-DUP2)				Prepared & Analyzed: 06/08/07						
Chloride	ND	0.500	mg/kg						20	
Matrix Spike (EF70810-MS1)				Source: 7E25020-02 Prepared & Analyzed: 06/08/07						
Chloride	1020	10.0	mg/kg	200	808	106	80-120			
Matrix Spike (EF70810-MS2)				Prepared & Analyzed: 06/08/07						
Chloride	ND	0.500	mg/kg				80-120			

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Page 3 of 4

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

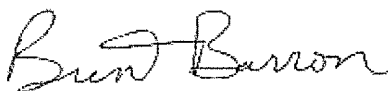
Project BP-Sunflower #28
Project Number None Given
Project Manager Cindy Crain

Fax: (432) 367-6747

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date: 6/8/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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Page 4 of 4

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**12600 West I-20 East
Odessa, Texas 79765**

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

Project Manager: Cindy Crain

Project Name: BP-Sunflower #28

Company Name Ocotillo Environmental, LLC

Project #:

Company Address: 2125 French Drive, P.O. Box 1816

Project Loc: Buckeye, NM

City/State/Zip: Hobbs, NM 88241

PO #:

Telephone No: (505) 441-7244

Fax No: (432) 367-6747

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: 

e-mail: cindy.crain@gmail.com

[illegible]

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Ocotillo End
 Date/ Time: 6-7-07 3:50
 Lab ID #: 7F07009
 Initials: al

Sample Receipt Checklist

Client Initials

#1 Temperature of container/ cooler?	Yes	<u>No</u>	<u>21</u> °C	
#2 Shipping container in good condition?	<u>Yes</u>	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	<u>Not Present</u>	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	<u>Not Present</u>	
#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)?	Yes	No	<u>ID written on Cont./ Lid</u>	
#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)?	Yes	No	<u>Not Applicable</u>	
#20 VOC samples have zero headspace?	Yes	No	<u>Not Applicable</u>	

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