Ocotillo
ENVIRONMENTAL
Dirt Work • On Site Remediation • Soil Testing • Excavation

March 29, 2010

Mr. Mike Bratcher
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1301 W. Grand Avenue
Artesia, New Mexico 88210

Re: Remediation Workplan,
Marks and Garner Production LTD Co., Levers #3Y
Unit Letter N (SE/4, SW/4), Section 33, Township 16 South, Range 29 East,
Eddy County, New Mexico
(Latitude: N 32.87188°, Longitude: W 104.08195°)
2RP #305

Dear Mr. Bratcher:

Marks and Garner Production LTD Co. (M&G), has retained Ocotillo Environmental, LLC (Ocotillo) to remediate impacts to soil from a leak at the Levers #3Y wellhead. The well is located in the southeast quarter (SE/4) of the southwest quarter (SW/4), Section 33, Township 16 South, Range 29 East, Eddy County, New Mexico (Site). The date and volume of the release are unknown. A C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on April 24, 2009. Appendix A provides a copy of the C141. Figure 1 shows the site location.

Based on published literature (1961), well records of the New Mexico State Engineer, and well records of the United States Geological Survey, groundwater occurs at approximately 65 feet bgs in the well located nearest the Site. No domestic water wells are located within 1,000 feet of the site. The NMOCD has established recommended remediation action levels (RRALs) for benzene, total BTEX and TPH resulting from spills of natural gas liquids ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"). Remediation levels for benzene, total BTEX and TPH were calculated using the following NMOCD criteria:

Criteria	Result	Ranking Score
Depth-to-Groundwater	50 - 99 Feet	10
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Horizontal Feet	0
		Total: 10

The following RRALs have been assigned based on NMOCD criteria:

Benzene	**10 mg/kg**
Total BTEX	**50 mg/kg**
TPH	**1,000 mg/kg**

P.O. Box 1816 • Hobbs, NM 88241
Office (505) 393-6371 • Fax (505) 393-6374

Initial Investigation

On September 10, 2009, a letter was prepared for the NMOCD by R.T. Hicks Consultants, Ltd. (Hicks), that reported results of soil samples collected at the site in order to provide horizontal delineation of the spill. Hicks also provided documentation that groundwater in the area is confined, thereby making the depth to groundwater "not relevant". Appendix B provides a copy of the "Hicks" diagram (Plate 2B) showing sample point locations and chloride concentrations, as well as a copy of the "Hicks" table of Field and Laboratory Data – Soil Samples.

Current Investigation

On March 2, 2010, Ocotillo installed two (2) soil borings (BH-1 and BH-2) at the site, using an air rotary drilling rig, in order to further assess the horizontal and vertical limits of the spill. Soil samples from the exploratory borings were collected in five foot intervals from the ground surface to a depth of approximately 46 feet below ground surface (bgs). The soil borings were plugged with bentonite. Figure 2 shows the locations of the soil borings. Appendix C provides copies of the Well Record and Logs provided to the Office of the State Engineer.

The soil samples from borings BH-1 and BH-2 were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to Cardinal Laboratories in Hobbs, New Mexico. All soil samples collected from borings BH-1 and BH-2 were analyzed for chlorides by EPA method 4500 Cl^-B. The upper three (3) samples from soil boring BH-1 (0-1', 5-6' and 10-11' bgs) were also analyzed for TPH by EPA Method SW-846 8015. Table 1 presents a summary of the laboratory analysis of soil samples. Laboratory analysis and chain of custody documentation are included in Appendix D.

Referring to Table 1, with the exception of the sample from 0-1' bgs (160 mg/kg), chloride concentrations in samples from boring BH-1 were above the NMOCD standard of 250 mg/kg until a depth of 45-46' bgs (144 mg/kg). The soil samples collected from background boring BH-2 all reported chloride concentrations below 250 mg/kg. Samples collected from boring BH-1 reported TPH concentrations below 1,000 mg/kg at a depth of 5-6' bgs (33.2 mg/kg) and 10-11' bgs (11.1 mg/kg).

Proposed Remediation

Marks and Garner proposes to conduct excavation of the chloride impacted soil in the vicinity of soil boring BH-1 to a depth of approximately five (5) feet bgs. Horizontal delineation will be determined by laboratory analysis of samples collected during excavation. All excavated soil with a chloride concentration greater than 5,000 mg/kg will be hauled to an NMOCD approved disposal facility. Excavated soil with a chloride concentration less than 5,000 mg/kg will be blended on-site with organic material, in order to reduce the chloride concentrations to less than 1,000 mg/kg. A 20 mil plastic liner will be installed at the five foot depth, and the excavated areas will be backfilled with either clean soil or blended soil with a chloride concentration less than 1,000 mg/kg. Excess blended soil (with a chloride concentration less than 1,000 mg/kg) will be used to construct firewalls around the Marks and Garner tank batteries and / or other ancillary equipment.

If you have any questions or need additional information, please call Mr. Quinton Welborn at (575) 631-0949, or myself at (575) 441-7244. We may also be reached by email at qwelborn@valornet.com or Cindy.Crain@gmail.com.

Sincerely,
Ocotillo Environmental, LLC

Cindy K. Crain

Cindy K. Crain, P.G.
Environmental Manager

cc: Quinton Welborn, Marks & Garner

FIGURES

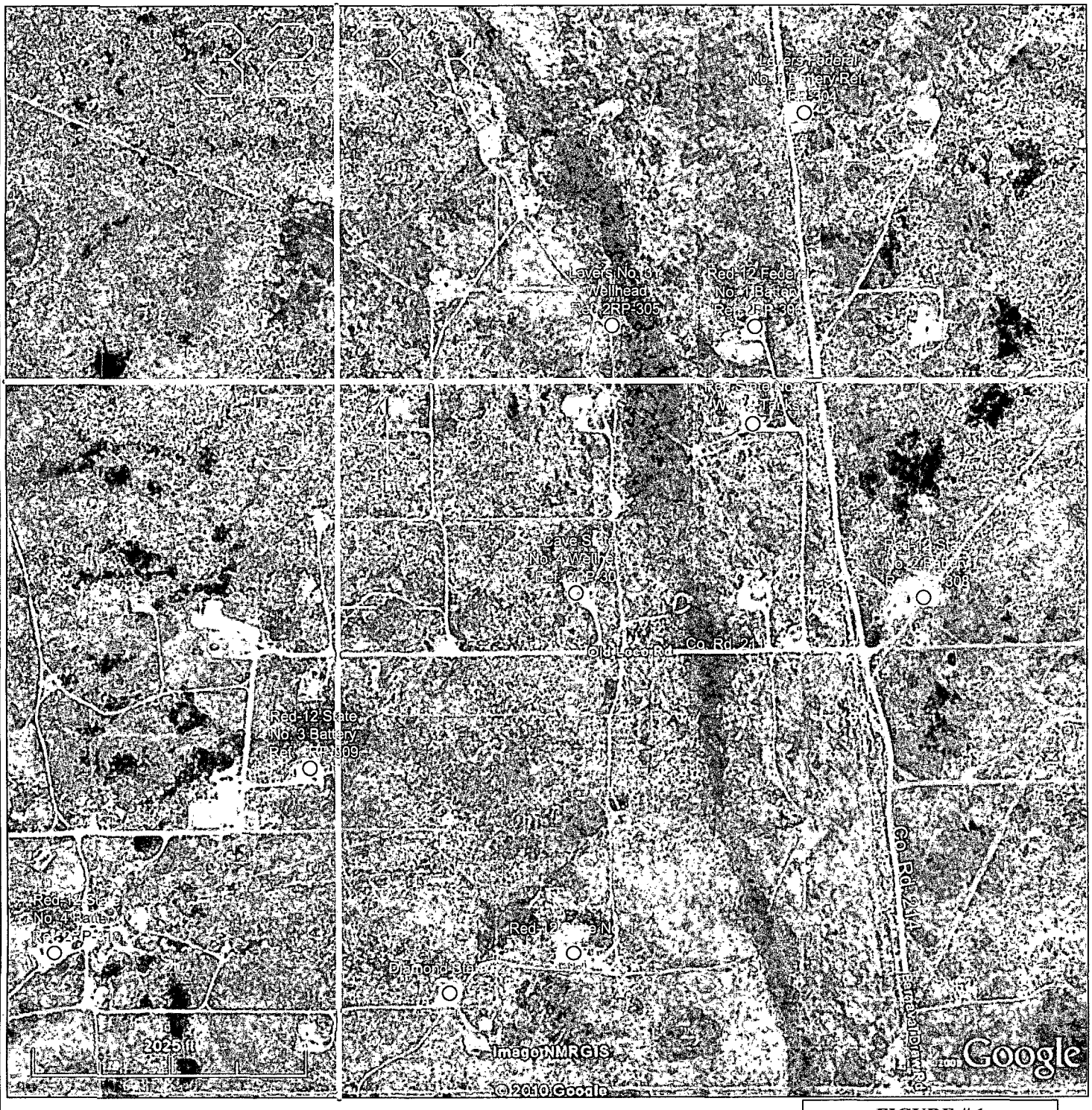


FIGURE # 1

	Eddy County, New Mexico
	Marks and Garner Production Ltd Co. T-16-S, R-29-E, Sec. 33 T-17-S, R-29-E, Sec. 4 & 5
DATE: 04-05-10 NAME: JTC PROJECT NO. :	**Site Vicinity Map**
	Ocotillo ENVIRONMENTAL

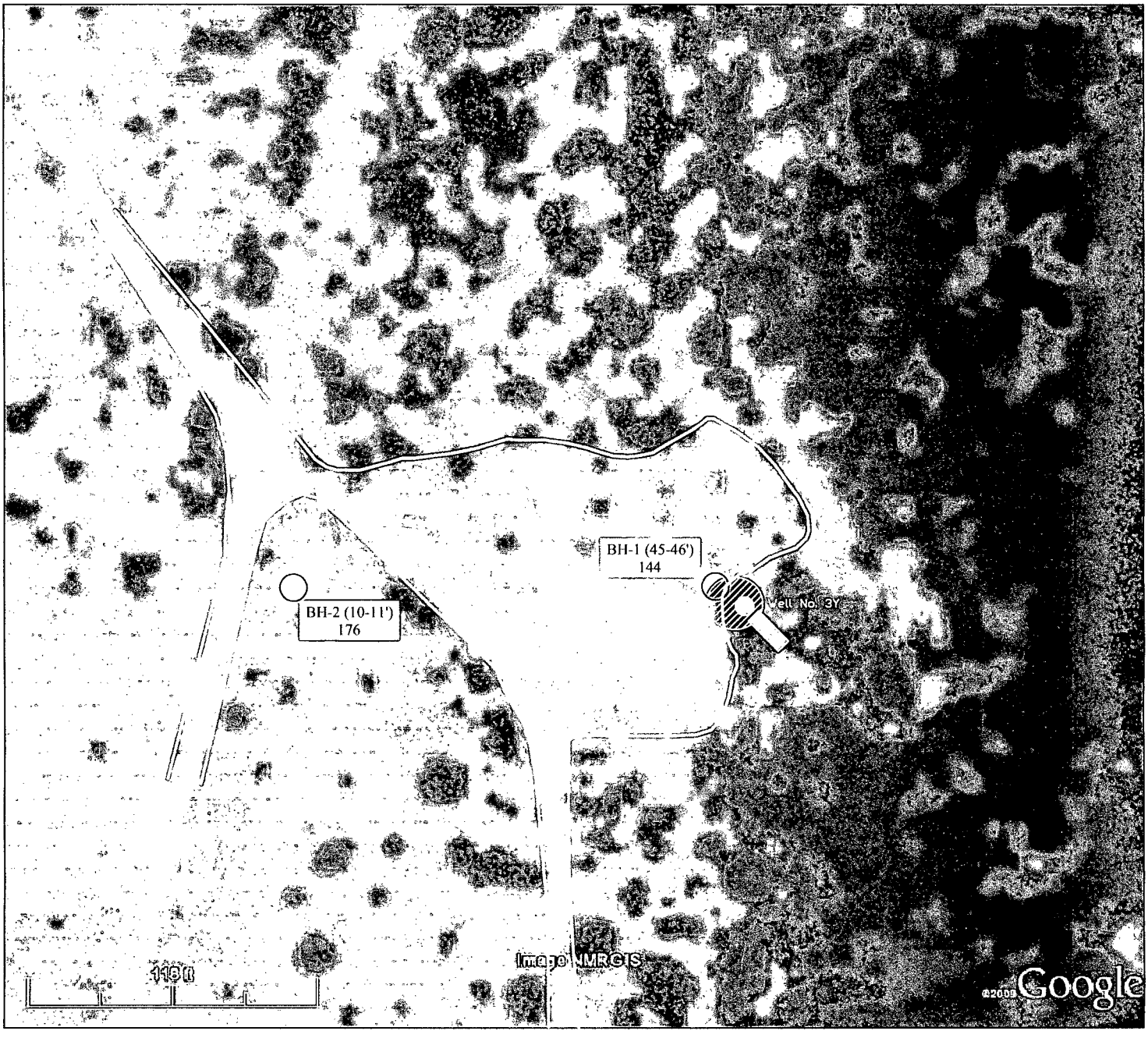


FIGURE # 2

Eddy County, New Mexico

Marks and Garner

Levers No. 3Y

T-16-S, R-29-E, Sec 33

Site Drawing With Boring Locations

Ocotillo ENVIRONMENTAL

LEGEND

BH-1 (45-46') 144 — Boring Location With Depth (feet bgs) and Chloride Concentration (mg/kg)

GPS Coordinates

BH-1 N.32.87188 W.104.08195
BH-2 N.32.87184 W.104.08255

N W E S

DATE: 04-05-10
NAME: JTC
PROJECT NO.: 0110-011C

TABLE

Table 1:
Summary of Laboratory Analysis of Soil Samples from Soil Borings
Marks and Garner Production LTD Co., Levers #3Y
Unit Letter N, Section 33, Township 16 South, Range 29 East
Eddy County, New Mexico

Sample Date	Bore Hole	Sample Depth (feet BGS)	TPH - GRO (C6 - C10) (mg/kg)	TPH - DRO (>C10 - C28) (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
WQCC Standard					**1,000**	**250**
3/2/10	BH-1	0 - 1	<50	1,480	1,480	160
3/2/10	BH-1	5 - 6	<10	33.2	33.2	1,280
3/2/10	BH-1	10 - 11	<10	11.1	11.1	2,040
3/2/10	BH-1	15 - 16	---	---	---	1,420
3/2/10	BH-1	20 - 21	---	---	---	1,940
3/2/10	BH-1	25 - 26	---	---	---	2,200
3/2/10	BH-1	30 - 31	---	---	---	3,720
3/2/10	BH-1	35 - 36	---	---	---	2,200
3/2/10	BH-1	40 - 41	---	---	---	2,120
3/2/10	BH-1	45 - 46	---	---	---	144
3/2/10	BH-2	0 - 1	---	---	---	<16
3/2/10	BH-2	5 - 6	---	---	---	96
3/2/10	BH-2	10 - 11	---	---	---	176
3/2/10	BH-2	15 - 16	---	---	---	144
3/2/10	BH-2	20 - 21	---	---	---	144
3/2/10	BH-2	25 - 26	---	---	---	160
3/2/10	BH-2	30 - 31	---	---	---	96
3/2/10	BH-2	35 - 36	---	---	---	80
3/2/10	BH-2	40 - 41	---	---	---	64
3/2/10	BH-2	45 - 46	---	---	---	48

Notes: Samples Analyzed by Cardinal Laboratories, Hobbs, NM
1. BGS: Depth in feet below ground surface
2. mg/kg: Milligrams per kilogram
3. --- No Data Available
4. < Less than method detection limit

APPENDIX A

INITIAL C141 DOCUMENTATION

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

MAY - 7 2009

Form C-14
Revised October 10, 200

Submit 2 Copies to appropriat
District Office in accordanc
with Rule 116 on bac
side of forr

30-015-02787

Release Notification and Corrective Action

nMLB0913439033

OPERATOR

☒ Initial Report ☐ Final Repo

Name of Company Marks & Garner Production 14070	Contact Quinton Welborn
Address P.O. Box 1089	Telephone No. 575-393-9358
Facility Name Lewis 003	Facility Type Oil Well

Surface Owner State	Mineral Owner Marks & Garner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	33	16S	29E	330	S	1970	W	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Volume of Release / Volume Recovered
Source of Release	Date and Hour of Occurrence / Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☐ No ☑ Not Required	If YES, To Whom?
By Whom?	Date and Hour
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Leaking wellhead, clean wellhead and effected area

Describe Area Affected and Cleanup Action Taken.*
Fix Leak + clean wellhead

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: Quinton Welborn

Printed Name: Quinton Welborn

Title: Manager

E-mail Address: qwelborn@valornet.com

Date: 4-24-09 Phone: 575-393-9358

OIL CONSERVATION DIVISION

Signed By Mike Bratcher

Approved by District Supervisor:

Approval Date: MAY 14 2009 Expiration Date:

Conditions of Approval: Remediation per OCD Rules & Guidelines Attached ☒

Attach Additional Sheets If Necessary

nMLB0913438704

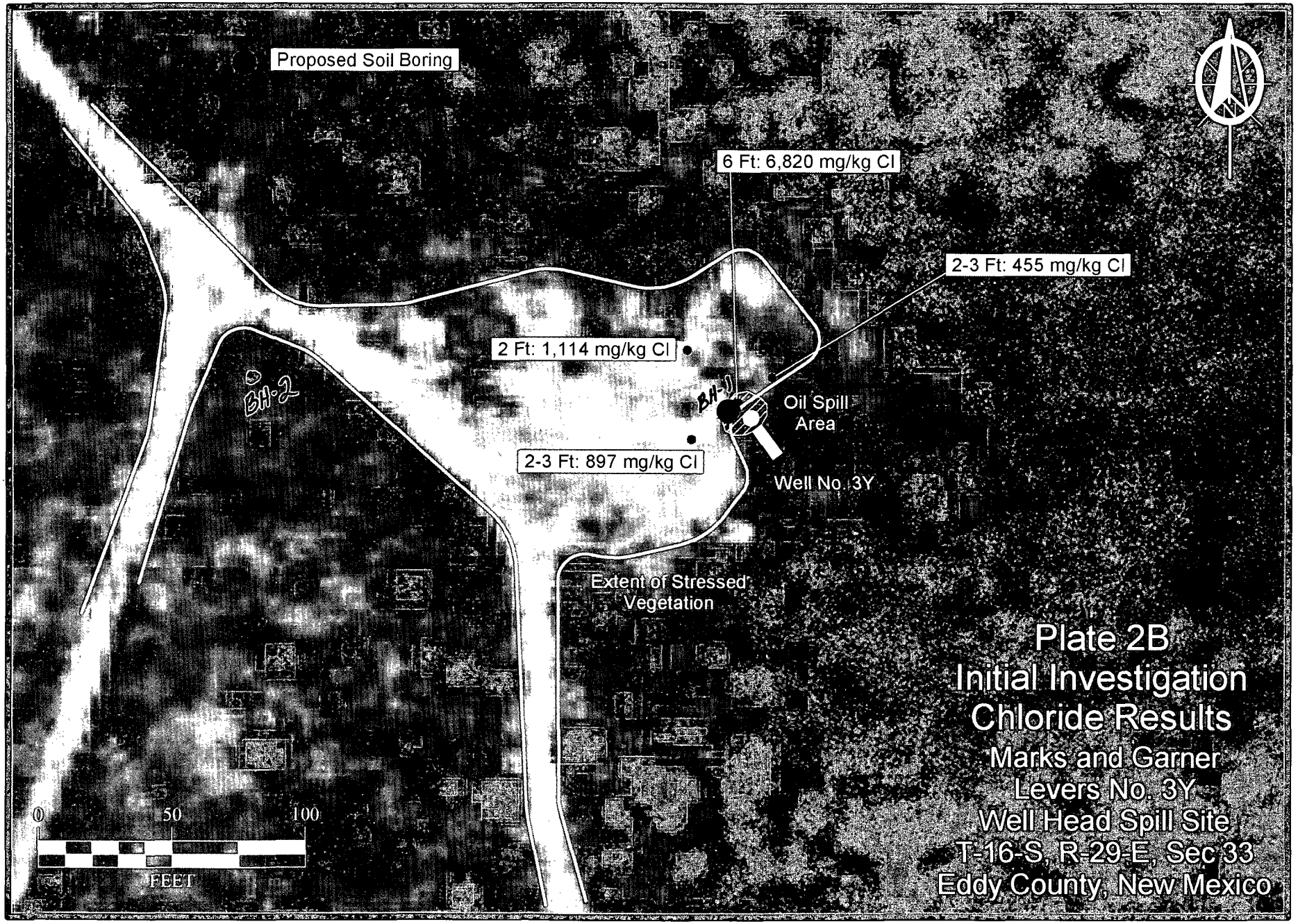
DATE: 4/16/09

2RP-305

APPENDIX B

R.T. HICKS INITIAL INVESTIGATION

PLATE 2B
And
TABLE OF FIELD AND LABORATORY DATA


Proposed Soil Boring
6 Ft: 6,820 mg/kg Cl
2-3 Ft: 455 mg/kg Cl
2 Ft: 1,114 mg/kg Cl
BH-2
BH-1
Oil Spill Area
2-3 Ft: 897 mg/kg Cl
Well No. 3Y
Extent of Stressed Vegetation
0
50
100
FEET
Plate 2B
Initial Investigation
Chloride Results
Marks and Garner
Levers No. 3Y
Well Head Spill Site
T-16-S, R-29-E, Sec 33
Eddy County, New Mexico

Marks & Garner - Levers No. 3Y Site
Field and Laboratory Data - Soil Samples

Sample Location	Depth (feet)	Sample Date	Field Cl (mg/kg)	Lab Cl (mg/kg)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	C_{6-12} (mg/kg)	C_{12-28} (mg/kg)	C_{28-35} (mg/kg)
Center Oil Spill	Surf	6/22/2009	---	---	85	0.0130	0.537	1.3850	3.5	5.47	1,340	**44,500**	3,150
	2.0	6/22/2009	---	---	39	---	---	---	---	---	---	---	---
	3.0	6/22/2009	---	---	64	---	---	---	---	---	---	---	---
	4.0	6/22/2009	---	---	127	---	---	---	---	---	---	---	---
	5.0	6/22/2009	---	---	210	---	---	---	---	---	---	---	---
	6.0	6/22/2009	---	**6,820**	334	<0.0107	0.212	0.6995	6.553	7.47	1,690	**6,640**	581
15-Feet East	2-3	8/27/2009	**455**	---	0	---	---	---	---	---	---	---	---
20-Feet West	2-3	8/27/2009	**897**	---	0	---	---	---	---	---	---	---	---
25-Feet North	2	8/27/2009	**1,114**	---	0	---	---	---	---	---	---	---	---

NMOCD 1993 Guideline RRALs	**250***	---	**10**	---	---	---	**50**	**5,000**	

*Chloride RRAL is based on the NMOCD May 28, 2004 Interim Pit and Below-Grade Tank Guidelines

APPENDIX C

WELL RECORD AND LOGS

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
LEVERS 3 Y SB-1	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
MARKS AND GARNER PRODUCTION COMPANY LTD	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
P.O. BOX 1089	HOBBS / NM / 88241

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	52	19.00	N
	LONGITUDE	104	4	55.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

FROM LOCO HILLS GENERAL STORE GO 6 MI W TO CR 214 TURN R GO 3 MI FOLLOW GPS TO SITE.

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
3-2-10	3-2-10	0	50	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES - SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
0	50	5	N/A	N/A	N/A	N/A	N/A

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
LEVERS 3 Y SB-2	
WELL OWNER NAME(S)	PHONE (OPTIONAL)
MARKS AND GARNER PRODUCTION COMPANY LTD	
WELL OWNER MAILING ADDRESS	CITY / STATE / ZIP
P.O. BOX 1089	HOBBS / NM / 88241

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	52	19.00	N
	LONGITUDE	104	4	55.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

FROM LOCO HILLS GENERAL STORE GO 6 MI W TO CR 214 TURN R GO 3 MI FOLLOW GPS TO SITE

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
3-2-10	3-2-10	0	45	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
0	45	5	N/A	N/A	N/A	N/A	N/A

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

APPENDIX D

ANALYTICAL DATA AND CHAIN OF CUSTODY DOCUMENTATION

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

March 9, 2010

Cindy Crain
Ocotillo Environmental, LLC
P.O. Box 1816
Hobbs, NM 88241

Re: Levers #3Y (0110-011C)

Enclosed are the results of analyses for sample number H19369, received by the laboratory on 03/03/10 at 12:30 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 6 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
OCOTILLO ENVIRONMENTAL
ATTN: CINDY CRAIN
P.O. BOX 1816
HOBBS, NM 88240
FAX TO (432) 272-0304

Receiving Date: 03/03/10
Reporting Date: 03/05/10
Project Owner: MARKS & GARNER (0110-011C)
Project Name: LEVERS #3Y
Project Location: EDDY CO., NM

Sampling Date: 03/02/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 5^{0}C
Sample Received By: JH
Analyzed By: AB

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)
ANALYSIS DATE:		03/05/10	03/05/10
H19369-1	BH-1 (0-1')	<50.0	1,480
H19369-2*	BH-1 (5-6')	<10.0	33.2
H19369-3	BH-1 (10-11')	<10.0	11.1
Quality Control		501	574
True Value QC		500	500
% Recovery		100	115
Relative Percent Difference		1.7	1.1

METHOD: SW-846 8015 M. Reported on wet weight.
*One or more TPH surrogates outside historical limits due to matrix interference.

Chemist

03/08/10
Date

H19369 TPH OCO

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
OCOTILLO ENVIRONMENTAL, LLC
ATTN: CINDY CRAIN
P.O. BOX 1816
HOBBS, NM 88241
FAX TO: (432) 272-0304

Receiving Date: 03/03/10
Reporting Date: 03/07/10
Project Number: 0110-011C (MARKS & GARNER)
Project Name: LEVERS #3Y
Project Location: EDDY CO., NM

Analysis Date: 03/05/10
Sampling Date: 03/02/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl^- (mg/kg)
H19369-1	BH-1 (0-1')	160
H19369-2	BH-1 (5-6')	1,280
H19369-3	BH-1 (10-11')	2,040
H19369-4	BH-1 (15-16')	1,420
H19369-5	BH-1 (20-21')	1,940
H19369-6	BH-1 (25-26')	2,200
H19369-7	BH-1 (30-31')	3,720
H19369-8	BH-1 (35-36')	2,200
H19369-9	BH-1 (40-41')	2,120
H19369-10	BH-1 (45-46')	144
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		2.0

METHOD: Standard Methods	4500-Cl^-B

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

03/09/10
Date

H19369 Ocotillo

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
OCOTILLO ENVIRONMENTAL, LLC
ATTN: CINDY CRAIN
P.O. BOX 1816
HOBBS, NM 88241
FAX TO: (432) 272-0304

Receiving Date: 03/03/10
Reporting Date: 03/07/10
Project Number: 0110-011C (MARKS & GARNER)
Project Name: LEVERS #3Y
Project Location: EDDY CO., NM

Analysis Date: 03/05/10
Sampling Date: 03/02/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl^- (mg/kg)
H1936-11	BH-2 (0-1')	< 16
H1936-12	BH-2 (5-6')	96
H1936-13	BH-2 (10-11')	176
H1936-14	BH-2 (15-16')	144
H1936-15	BH-2 (20-21')	144
H1936-16	BH-2 (25-26')	160
H1936-17	BH-2 (30-31')	96
H1936-18	BH-2 (35-36')	80
H1936-19	BH-2 (40-41')	64
H1936-20	BH-2 (45-46')	48
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		2.0

METHOD: Standard Methods	4500-ClˉB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

03/09/10
Date

H19369 Ocotillo

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	Ocotillo Environmental	**BILL TO**	
Project Manager:	Cindy Crain	P.O. #:	
Address:	2125 French Dr. P.O. Box 1816	Company:	Ocotillo
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	(575) 441-7244 Fax #: (432) 272-0304	Address:	Same
Project #:	0110-011C Project Owner: Marks & Garner	City:	
Project Name:	Levers # 3Y	State:	Zip:
Project Location:	Eddy Co., NM	Phone #:	
Sampler Name:	Cindy Crain	Fax #:	

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH 8015M
H19369-1	BH-1 (0-1')	G	1			✓					✓		3/2/10	1030	✓	✓
-2	" (5-6')	G	1			✓					✓		"	1036	✓	✓
-3	" (10-11')	G	1			✓					✓		"	1042	✓	✓
-4	" (15-16')	G	1			✓							"	1045	✓	
-5	" (20-21')	G	1			✓							"	1048	✓	
-6	" (25-26')	G	1			✓							"	1100	✓	
-7	" (30-31')	G	1			✓							"	1105	✓	
-8	" (35-36')	G	1			✓							"	1118	✓	
-9	" (40-41')	G	1			✓							"	1122	✓	
10	" (45-46')	G	1			✓							"	1130	✓	

Relinquished By:	Date: 3/3/10 Time: 1033	Received By:	Don Green
Relinquished By:	Date: 3/3/10 Time: 12:30	Received By:	Jodi Henson
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool: ☑ Yes ☐ No 5°C; Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)	JH

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☑ Yes ☐ No Add'l Fax #:
REMARKS:

Fax to (432) 272-0304

Please email results to:
Cindy.Crain@gmail.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	Ocotillo Environmental	**BILL TO**	
Project Manager:	Cindy Crain	P.O. #:	
Address:	2125 French Dr. P.O. Box 1816	Company:	Ocotillo
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	(575) 441-7244 Fax #: (432) 272-0304	Address:	Lane
Project #:	0110-011C Project Owner: Marks & Garner	City:	
Project Name:	Levers # 3Y	State: Zip:	
Project Location:	Eddy Co., NM	Phone #:	
Sampler Name:	Cindy Crain	Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	SAMPLING TIME	Chloride
HA3689-11	BH-2 (0-1')	G	1			✓							3/2/10	1200	✓
-12	" (5-6')	G	1			✓							"	1202	✓
-13	" (10-11')	G	1			✓							"	1205	✓
-14	" (15-16')	G	1			✓							"	1207	✓
-15	" (20-21')	G	1			✓							"	1210	✓
-16	" (25-26')	G	1			✓							"	1212	✓
-17	" (30-31')	G	1			✓							"	1214	✓
-18	" (35-36')	G	1			✓							"	1216	✓
19	" (40-41')	G	1			✓							"	1219	✓
20	" (45-46')	G	1			✓							"	1223	✓

Relinquished By: Cindy Crain	Date: 3/3/10 Time: 1033	Received By: Don Green	
Relinquished By: Don Green	Date: 3/3/10 Time: 12:30	Received By: Jodi Henson	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool: ☑ Yes ☐ No; Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)	

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☑ Yes ☐ No Add'l Fax #:
REMARKS:

Fax to (432) 272-0304

Please email results

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