District 1 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

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State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr.

RECEIVED

Form C-141 sed October 10, 2003

1220 S. St. Fran	cis Dr., Santa	re, NM 8/303) 	Sa	anta Fe	, NM 875	05	B B				CONTRACT TOTAL	
			Rele	ase Notific	cation	and Co	rrective A	ction					
						OPER.	ATOR	(X Init	ial Report	<u>)</u>	Final Report	
Name of Co	ompany Cl	IEVRON					ry Williams						
Address P.C	D. Box 194	9 Eunice NI					No. 505-394-12-		e), 505-3	90-7165 (c	ell)		
Facility Nar	me-CHW	eir B Batte	办本 (34		Facility Typ	e - Production	Battery		·			
Surface Ow	Surface Owner- Trent Stradley Mineral Owner						lley		AP	1# 30 - 0	25-	30119	
				LOCA	ATIO	OF RE	LEASE						
Unit Letter	ter Section Township Range Feet from the North				North/	South Line	Feet from the	East/W	est Line	County			
ō	12	208	37E		 			 -		Lea			
	1,7	203	3,10		<u></u>	***************************************		<u> </u>		<u> </u>			
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Type of Rele	ase- Produc	ced Water				Volume of 20 BW	Release		Volume i	Recovered-		.	
Source of Re	clease- 3' po	oly & PVC pi	pe connect	ion	····		Hour of Occurrence 7 10:25 am	ce-		Hour of Dis 07 10:25 am.		y .	
Was Immedi	iate Notice		Yes [No Not R	Lequired	If YES, To Pat Capert							
By Whom?	Larry Willis	ims				Date and Hour 12/3/2007 11:10 am							
Was a Water		ched?				If YES, V	olume Impacting	the Wate	rcourse.				
			Yes 2	₫ No									
If a Waterco	urse was In	pacted, Desc	ribe Fully.	•									
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1													
Chlorides 32	2,000 ppm	Grou	ind water	70'							,	;	
I hereby cert	ify that the	information g	iven abov	e is true and comp	plete to t	he best of my	knowledge and a	understan	d that pur	suant to NM	OCD	rules and	
regulations a	all operators	are required to	to report a	nd/or file certain in ce of a C-141 rep	release n	otifications a	nd perform corre	ctive acti	ons for re	leases which	may e	endanger :	
should their	operations i	nave failed to	adequately	investigate and i	remediat	e contaminat	ion that nose a thi	reat to gra	ound wate	r. surface wa	ter h	uman bealth	
or the enviro	onment. In a	ddition, NM(OCD acces	ptance of a C-141	report d	oes not reliev	e the operator of	responsi	bility for o	compliance v	vith ar	ny other	
records, same	federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION												
						·							
Printed Name: Larry Williams Approved by District Supervisor NMENTAL ENGINEER													
Printed Nam	e: Larry Wi	lliams	····			Approved by	District Supervis	PONMI	ENTAL	ENGINE	EB_		
Title: Produc	ction Rep	····			1		te: 2·(3·06	1		Date: 5		68	
E-mail Addr	ess: LCWL(a)chevroп.com	n			Conditions o	f Approval						
			·	204.407=		V	ppi o vue.			Attachet		1707	
Date: 12/03	12007	P	none: 505	-394-1247						1RP	5	1783	

FC040808031475

* Attach Additional Sheets If Necessary



Dirt Work • On-Site Remediation • Soil Testing • Excavation

March 14, 2008

RECEIVED

Mr. Larry Johnson
Environmental Engineer
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1625 N. French Drive
Hobbs, New Mexico 88240

MAR 1.9 2008
HOBBS OCD

Re: Spill Delineation Workplan, Chevron Midcontinent Alaska
C. H. Weir B Disposal Line (1RP #1783)
Unit Letter O (SW/4, SE/4), Section 12, Township 20 South, Range 37 East,
Lea County, New Mexico
(N 32.58235', W 103.20321')

Dear Mr. Johnson:

Chevron MidContinent Alaska (Chevron) has retained Ocotillo Environmental, LLC (Ocotillo) to remediate impacts to soil from a leak at a disposal line located approximately 200 feet west of the C. H. Weir B well. The well is located in the southwest quarter (SW/4) of the southeast quarter (SE/4), Section 12, Township 20 South, Range 37 East, Lea County, New Mexico (Site). Approximately 20 barrels of produced water was released from the injection line on November 30, 2007, and approximately 6 barrels was recovered from the site. A C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on December 3, 2007. A copy of the C-141 is included as the last page of this report. A Spill Remediation Workplan was submitted to the NMOCD on February 7, 2008 and was approved on February 13, 2008. 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 68 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

PLAN POKE

The following RRALs have been assigned based on NMOCD criteria:

Benzene Total BTEX 10 mg/kg 50 mg/kg

TPH

1,000 mg/kg

P.O. Box 1816 • Hobbs, NM 88241 Office (505) 393-6371 • Fax (505) 393-6374 SAMPLES ATTACHED -ADDITIONAL VEETICAL DEUNEATION REOD .

3.19.08

Mr. Larry Johnson Page 2 March 14, 2008

Initial Investigation

Impacted soil was excavated to a depth of four (4) feet below ground surface (bgs) and hauled to an NMOCD approved disposal facility. On January 21, 2008, grab soil samples (SS-1 through SS-4) were collected from the bottom of the excavation at a depth of approximately four (4) feet bgs and composite soil samples were collected from each side wall. Figure 2 shows the sample locations. Table 1 presents a summary of the laboratory analysis of soil samples.

As reported in the Spill Remediation Workplan dated February 7, 2008, all TPH and BTEX concentrations were below the RRALs in all samples collected from the excavation. Chloride concentrations in all samples exceeded the recommended clean up standard of 250 mg/kg.

Secondary Investigation

On March 6 and March 10, 2008, excavation continued at sample points SS-1 through SS-4. Soil samples were collected every two (2) feet, from a depth of approximately four (4) feet bgs and field tested for chloride concentrations. Excavation continued to a depth of 21 feet bgs and all soil samples were submitted to an NMOCD approved laboratory for confirmation analysis of chloride concentrations. Additionally excavated soil was hauled to an NMOCD approved disposal facility. Figure 2 shows the sample locations. Table 1 presents a summary of the laboratory analysis of soil samples. Referring to Table 1, chloride concentrations in all samples exceeded the recommended clean up standard of 250 mg/kg. Appendix A provides laboratory and chain of custody documentation.

Proposed Delineation

As vertical delineation has not yet been achieved at a depth of 21 feet bgs, Chevron proposes to install a minimum of three (3) soil borings at the site in order to determine the horizontal and vertical limits of the chloride impact. Soil borings will be installed using an air rotary drilling rig, and soil samples will be collected from the surface and every five (5) feet thereafter until field chloride analyses report chloride concentrations below 250 mg/kg. Figure 2 shows the proposed soil boring locations. All samples will be submitted to an NMOCD approved laboratory for confirmation analysis. An ammended Remediation Workplan will be submitted to the NMOCD following completion of the delineation activities and receipt of final laboratory results.

If you have any questions or need additional information, please call Mr. Bill Anderson at (575) 441-5438, or myself at (575) 441-7244. We may also be reached by email at BillyAnderson@chevron.com or <u>Cindy.Crain@gmail.com</u>.

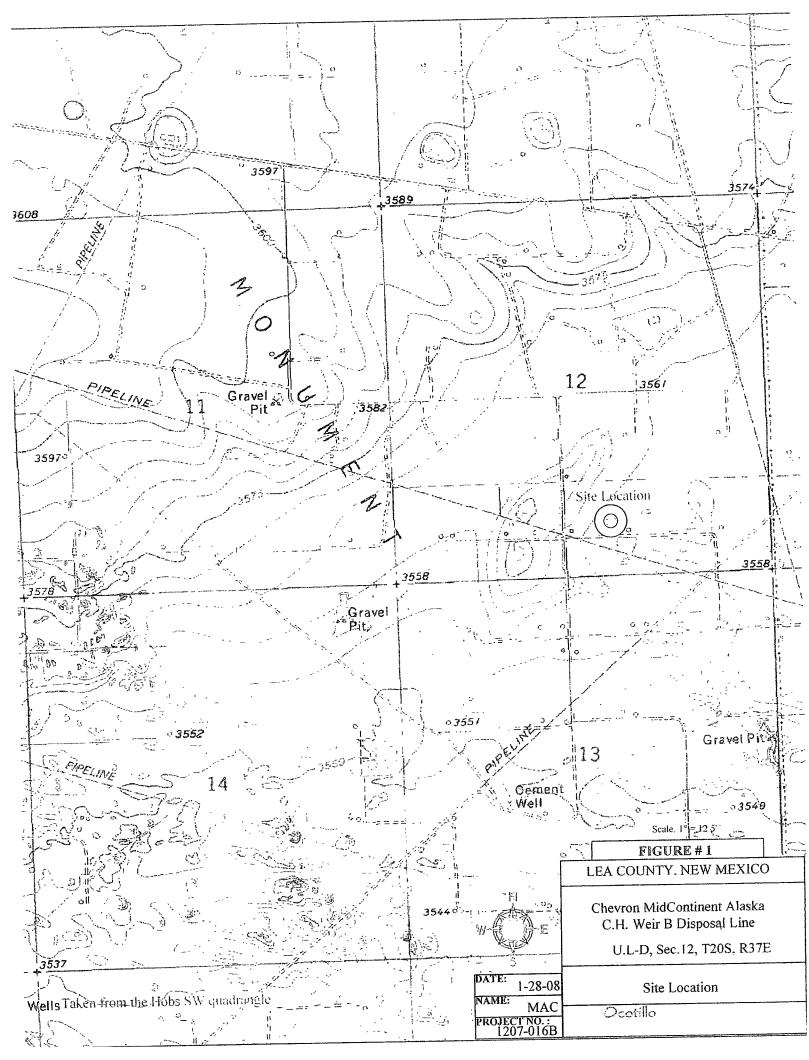
Sincerely.

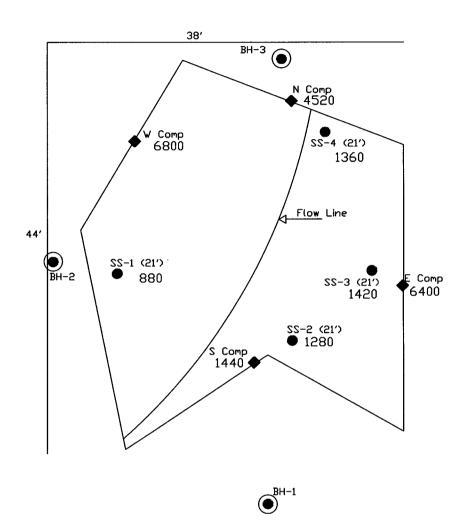
Ocotillo Environmental, LLC

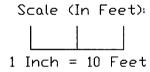
Cindy K. Crain, P.G. Environmental Manager

cc: Bill Anderson, Chevron

FIGURES







Sample	Location GP	<u>S Coordinates</u>
, , , , ,		
1-22	N.32.58239°	W.103.20321°
22-5	N.32.58234°	W.103.20319*
cc_2	N 22 50220*	1.7 100 20215*

\$2-2 N.32.58234 W.103.20319* \$2-3 N.32.58238* W.103.20315* \$2-4 N.32.58240* W.103.20318*

LEGEND

088 = 22 088

Soil Sample Location with Depth (feet bgs) and Chloride Concentration (mg/kg)

Composite Sample Location with Chloride Concentration (mg/kg)

BH-1

Proposed Soil Boring Location

FIGURE # 2

LEA COUNTY, NEW MEXICO

Chevron MidContinent Alaska



JTC

NAME:

Chevron

C.H. Weir B Disposal Line UL-D, Sec. 12, T20S, R37E

Site Drawing With Proposed Boring Locations

Ocotillo ENVIRONMENTAL

TABLE

Table 1: Summary of Laboratory Analysis of Soil Samples Chevron MidContinent Alaska, C. H. Weir B Disposal Line Unit Letter D, Section 12, Township 20 South, Range 37 East Lea County, New Mexico

Sample	Soil Sample *	Sample	TPH - GRO	TPH - DRO	.Total TPH	Benzene	Total BTEX	·Chloride
Date	Number	Depth	(C6 - C10)	(>C10 - C28)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	, and a second	(feet BGS)	(mg/kg)	(mg/kg)	,			-
	ę V	VQCC Standa	rd		1,000	10	50.	250
1/21/08	SS-1	4	<10.0	<10.0	<20.0	< 0.002	< 0.006	3,680
3/6/08	SS-1	6						. 4,240
3/6/08	SS-1	8						4,800
3/6/08	SS-1	10						2,520
3/6/08	SS-1	12						4,840
3/6/08	SS-1	14						3,920
3/6/08	SS-1	16						4,440
3/10/08	SS-1	18						3,320
3/10/08	SS-1	21						880
1/21/08	SS-2	4	<10.0	<10.0	<20.0	< 0.002	< 0.006	5,080
3/6/08	SS-2	6						5,760
3/6/08	SS-2	8						4,800
3/6/08	SS-2	10						4,800
3/6/08	SS-2	12						6,080
3/6/08	SS-2	14						5,440
3/6/08	SS-2	16						1,800
3/10/08	SS-2	18						1,380
3/10/08	SS-2	21						1,280
1/21/08	SS-3	4	<10.0	<10.0	<20.0	<0.002	< 0.006	7,800
3/6/08	SS-3	6						- 5,120
3/6/08	SS-3	8						5,200
3/6/08	SS-3	10						5,360
3/6/08	SS-3	12						5,040
3/6/08	SS-3	14						2,640
3/6/08	SS-3	16						4,280
3/10/08	SS-3	18						1,740
3/10/08	SS-3	21						1,420
1/21/08	SS-4	4	<10.0	89.0	89 0	< 0.002	< 0.006	5,5 <u>2</u> 0
3/6/08	SS-4	6						. 1,840
3/6/08	SS-4	8						1,040
3/6/08	SS-4	10						. 1,140
3/6/08	SS-4	12						
3/6/08	SS-4	14						'
3/6/08	SS-4	16						848
3/10/08	SS-4	18						896
3/10/08	SS-4	21						1,360
1/21/08	S Wall Comp		<10.0	37.9	37.9	< 0.002	< 0.006	1,440
1/21/08	E Wall Comp		<10.0	<10 0	<20.0	< 0.002	< 0.006	. 6,400
1/21/08	N Wall Comp		<10.0	<10.0	<20.0	< 0.002	< 0.006	4,520
1/21/08	W Wall Comp		<10.0	<10.0	<20.0	0 005	0.013	6,800

Notes:

1. BGS: Depth in feet below ground surface

2. mg/kg: Milligrams per kılogram3 --- No Data Available

4. < Less than method detection limit

APPENDIX A

ANALYTICAL DATA AND CHAIN OF CUSTODY DOCUMENTATION



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

Receiving Date: 03/06/08

Reporting Date: 03/07/08

Project Owner: CHEVRON (1207-016B)

Project Name: C.H. WIER B

Project Location: LEA COUNTY, NM

Analysis Date: 03/07/08 Sampling Date: 03/06/08

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: -ML-

Analyzed By: KS

		C
LAB NO.	SAMPLE ID	(mg/kg)
H14393-1	SS-POINT #1 @ 6'	4,240
H14393-2	SS-POINT #1 @ 8'	4,800
H14393-3	SS-POINT #1 @ 10'	2,520
H14393-4	SS-POINT #1 @ 12'	4,840
H14393-5	SS-POINT #1 @ 14'	3,920
H14393-6	SS-POINT #1 @ 16'	4,440
H14393-7	SS-POINT #2 @ 6'	5,760
H14393-8	SS-POINT #2 @ 8'	4,800
H14393-9	SS-POINT #2 @ 10'	4,800
H14393-10	SS-POINT #2 @ 12'	6,080
H14393-11	\$S-POINT #2 @ 14'	5,440
H14393-12	SS-POINT #2 @ 16'	1,800
Quality Cont	rol	490
True Value (2C	500
% Recovery		98.0
Relative Per	cent Difference	4.0

METHOD: Standard Methods 4500-CIB

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

Bust Suprobo

Date

H14393 OCO



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

Receiving Date: 03/06/08 Reporting Date: 03/07/08

Project Owner: CHEVRON (1207-016B)

Project Name: C.H. WIER B

Project Location: LEA COUNTY, NM

Analysis Date: 03/07/08 Sampling Date: 03/06/08 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: KS

		C
LAB NO.	SAMPLE ID	(mg/kg)
H14393-13	SS-POINT #3 @ 6' \	5,120
H14393-14	SS-POINT #3 @ 8'	5,200
H14393-15	SS-POINT #3 @ 10' 🦴	5,360
H14393-16	SS-POINT #3 @ 12'	5,040
H14393-17	SS-POINT #3 @ 14'	2,640
H14393-18	SS-POINT #3 @ 16 7	4,280
H14393-19	SS-POINT #4 @ 6'	1,840
H14393-20	SS-POINT #4 @ 8' \	1,040
H14393-21	SS-POINT #4 @ 10' (1,140
H14393-22	SS-POINT #4 @ 16'	848
-71 November 10 - 10 November 10 - 10 November 10 Nove		
Quality Cont	rol	490
True Value (500
% Recovery		98 0
Relative Per	cent Difference	4.0

METHOD: Standard Methods 4500-CIB

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

Mist Superior

Date

H14393 OCO

CHAIN-OF-CUSTODY	AND A	ANALY	SIS RE	้อม	EST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 78603 (505) 393-2326 FAX (505) 393-2476 (325) 873-7001 FAX (325)873-7020

193

company Name: Ocotilla Environne	N.E.	16	- 4- 9		1		-	LL TO						MINN	15 1 31	S R	-LJI IF	. 5-5-1			
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^{*} Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2478

ARDINAL 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

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Congaint Name: Ocotillo Environmenta ILLC Prodect Manager: Cindy Crain	BILL TO	
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address: 2125 French Dr.	Company: Ocofilla	-
•	Attn:	-{
Thomas: 572 - 441-7244 Fax #: 432 - 272 - 0304	Address:	4
project 1: 1207-016 B Project Owner: Cheuron		
	City:	
Tolect Haine: C. H. Wier B	State: Zip:	
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rentagues only . MATRIX	PRESERV. SAMPLING	-1.8
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(G)RAB OR (C)OW # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SILUDGE		
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: clinquistical By: / Received By: /	Fo	1X # 432-272-0304
Time:	1,4	132 212-0301
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

Communitamo: Ocotillo Environme	2410 (020) 013-1001 .	BILL TO	AMAL VOIC DECLINA	
Minjert Manager: Cludy Crain	213 [2 2 3	P.O. #:	ANALYSIS REQUEST	
Addiess: 2125 French Dr.		Company: Ocotilla	7]
	1 Zip: 88240	Attn:	-	
Che: Hahbs State: NA Phone :: 572 - 441 - 7244 Fax #: 43	2-272-0304	Address:	7	
throject #: 1207-016 B Project Own	er. Chevish	City:		
Project Hamo C. 11. Wier B		State: Zip:]	
Project ocation Les County N.A	7	Phone #:		
Complex l'enses Steve Cannon		Fax #:	_[`9	
PANTAR USE OHRY :) F	MATRIX	PRESERV. SAMPLING	_	, , , ,
;	R ER S		12	
Sample I.D.	(G)RAB OR (C)C CONTAINERS GROUNDWATE WASTEWATER SOIL	<u> </u>	3	
	NATA UND UND TEW	S S S S S S S S S S S S S S S S S S S	(0)	
½	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	MIL STAD OTHER:		
H14393-21:55-Point#4@10'	21 4	3.6-08 11:51		
-2755 Paint = 4 @ 16'	21 4	" /:30		
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al filler or rucces sary origin put of or related to the purknown of services hereunder.	अ Cardinal, 190,वाफी क्या को भोगब्दिका आको हो से	n to besid open any of the above stated returns or cliving	Han.	<u>.</u>
3-10-08	1/-/	Fax Resul	ult: Dras U No Add' Fey #:	
Steer annon Time: 3:150	Vista			,
Polynomals of the Control of the Con	Kecelyed By:	te	ax # 432-272-030	4
Time:				}
ingligated होए: (Circle One)	Sample Cond Çopi Intect	(InWels)		
Complete UPS - Bus - Other:	Yes DY	es WAB		



ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC

ATTN: CINDY CRAIN P.O. BOX 1816 HOBBS, NM 88241 EAX TO: (422) 272 00

FAX TO: (432) 272-0304

Receiving Date: 03/11/08 Reporting Date: 03/11/08

Project Owner: CHEVRON (1207-016B)

Project Name: NOT GIVEN
Project Location: NOT GIVEN

Analysis Date: 03/11/08 Sampling Date: 03/10/08 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: HM

		Cl
LAB NO.	SAMPLE ID	(mg/kg)
H14423-1	SS-POINT #1 @ 18'	3,320
H14423-2		1,380
H14423-3	SS-POINT #3 @ 18'	1,740
H14423-4	SS-POINT #4 @ 18'	896
H14423-5	SS-POINT #1 @ 21'	880
H14423-6	SS-POINT #2 @ 21'	1,280
H14423-7	SS-POINT #3 @ 21'	1,420
H14423-8	SS-POINT #4 @ 21'	1,360
~~		
···		
054-0-	41	
Quality Cor	<u> </u>	500
True Value	QC	500
% Recover		100
Relative Pe	rcent Difference	2.0

METHOD:	Standard Methods	4500-CIB

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

Spe So Moran Chemist

03-//-08

H14423 OCO

PLEASE NOTE: Liability and Damagee. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatspever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service in no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, lobe of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors erising out of or related to the parformance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons of otherwise. Results relate only to the samples identified above. This report shell not be reproduced except in full with written approval of Cardinal Laboratories.

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

Company Name: Ocofilla Environmenta (LLC BILL TO ANALYSIS REQUEST Project Manager: Crudy Crain P.O.#: Indicase: 2125 French Dr. Company: Ocofilla My Habbs State: NM Zip: 88240 Attn: Thomas: 572-441-7244 Fax#: 432-272-0304 Address:				
confidences: 2125 French Dr. Company: Ocotilla				
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	r i i			
ffrom # 572 - 441-7244 Fax #: 432 - 272 - 0304 Address:				
Project (f: Project Owner: City:				
Crofect Stame: Chaveon State: Zip:				
Seject togation: Phone #:				
Caraple Marie: Steve Cannon Fax#:				
MATRIX PRESERV SAMPLING				
(G)RAB OR (C)OM FECONTAINERS SOIL OIL SILUOGE OTHER: ACIOIBASE CE / COOL OTHER: ACIOIBASE CE / COOL OTHER: ACIOIBASE CE / COOL OTHER: ACIOIBASE CE / COOL OTHER:				
-2 55 Paux +2 @ 18' B. 1 4 " 3'46 W				
-3 SS Point = 3 @ 18' Call 4" 3:32) 4				
-4 53 Paint # 4 @ 18 B1 W " 3:21 W				
-5 55 Paint #1 @ 21' C 1 L 1 3:53 C - 1 55 Paint #2 @ 21' G 1 L 4:23 C -7 55 Paint #3 @ 21' G 1 L 4:09 L				
-6 55 Paint #2@ 21 G1 4 4:23 C				
-7 55 Point # 3@ 21' G! 4:09 w				
-8 35 Paint # 4@ 21' GI 4 " 4:03 L				
21.57.5EEECO E 12 (Filty and Compage, Cardinal's liability and close) a statusher crassedy for any stabus artifage whether been d in combact or lost, shall be thrifted to the atmost paid by the client for the				
This secret is a little from the design there is a registerious and any other course whe source shall be deprined and received by Cardinal William 20 days after completion of the applicable design. It is a certal clinic Condinate be listed for incidental or consequential damages, inciding yill the first state of the course of proble from or of your or you of proble from or or you of proble from or or you of proble from or or you of proble from or or you of proble from or or you of proble from or or you of proble from or or you of proble from or or you of proble from or or you of proble from or or you of proble from or or you of proble from or or you or				
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3-16-01				
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Date: Received By: Fax # 432-272-030	4			
Time:	′			
ां लिल्हिल वर्त । (Circle One) Semple Condition CHECKED BY:	ľ			
Cool Intact Cool Intact Cool Intact Cool Intact No No No				

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2478

C141 DOCUMENTATION