



AMERADA HESS CORPORATION

GREAT WESTERN BORDAGES BATTERY #50 LEA COUNTY, NEW MEXICO

SITE CLOSURE REPORT

PREPARED BY:

BBC INTERNATIONAL, INC.
WORLD-WIDE ENVIRONMENTAL SPECIALISTS
1324 W. MARLAND BLVD.
P. O. BOX 805
HOBBS, NEW MEXICO 88240
(505)397-6388 • FAX (505)397-0397
EMAIL: bbc@bbcinternational.com
WEBSITE: www.bbcinternational.com



RP# 869

MARCH 31, 2006

PREPARED FOR:

MR. RANDY BARNES
AMERADA HESS CORPORATION
P.O. BOX 840
SEMINOLE, TX 79360

Facility - SPAC06B146755
Incident - NPAC06B146838
Application - pPAC06B147036



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

April 20, 2006

Mr. Randy Barnes
Amerada Hess Corporation, (Amerada)
POB 840
Seminole, TX 79360

Re: Great Western Bordages Battery #50 Site Closure Approval
Unit N, Section 28-Township 19 South-Range 37 East
Dated: March 22, 2006

Dear Mr. Barnes,

New Mexico Oil Conservation Division (OCD) personnel reviewed the closure report submitted by BBC for Amerada and referenced above. The closure is **hereby approved** according to the information provided.

Please be advised that OCD approval does not relieve Amerada of liability should operations result in pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve Amerada of responsibility for compliance with other federal, state or local laws and/or regulations.

If you have any questions or need assistance please write or call: (505) 393-6161, ext. 113, or e-mail: psheeeley@state.nm.us

Sincerely,

Paul Sheeley-Environmental Engineer *JS*
xc: Wayne Price - Environmental Bureau Chief
Chris Williams - District I Supervisor
Larry Johnson - Environmental Engineer
Amy Ruth - BBC

Amerada Hess Corporation

Great Western Bordages Battery #50

1.0 INTRODUCTION

The subject site is north of Monument, New Mexico in Lea County in Unit Letter N, of Section 28, Township 19 South, and Range 37 East. The site is an abandoned tank battery. Amerada Hess Corporation (Amerada) sent a remediation plan to the New Mexico Oil Conservation Division (NMOCD), and the plan was approved on December 5, 2005.

2.0 SITE CHARACTERIZATION

The area of the site measures approximately 8,000 square feet. Based on data from the United States Geological Survey, average depth to groundwater is less than 50 feet. Bedrock in the Monument area is very shallow and it is approximately one foot below the surface of the topsoil.

3.0 SITE ACTIVITIES

Amerada retained E.D. Walton Construction (E.D. Walton) to excavate any contaminated materials and haul the materials to a landfarm approved by NMOCD. BBC International, Inc. (BBC) was also retained by Amerada to collect soil samples for laboratory analysis. The site was scanned for naturally occurring radioactive materials (NORM), and readings were normal.

Trenches were excavated to three and a half (3.5) feet below ground surface (bgs) throughout the area of the site for sampling on January 11, 2006 except for a small area still covered by a 500 barrel tank. BBC collected seven (7) samples from the bottom of the trenches on January 12, 2006. The samples were sent to a laboratory and analyzed for total petroleum hydrocarbons (TPH) – gasoline range organics (GRO)/diesel range organics (DRO). GRO was non-detect and DRO ranged from non-detect to 414 parts per million (ppm). All site diagrams including sample point locations can be found in **Appendix I** of this report. All laboratory analyticals can be viewed in **Appendix II**, site photographs can be found in **Appendix III**, and correspondences regarding sampling events can be found in **Appendix IV**.

Three (3) surface samples were taken on January 19, 2006. GRO and BTEX were non-detect, DRO ranged from non-detect to 43.6 ppm, and chlorides were

80 ppm at the south end of the site, 16 ppm in the center, and 1376 ppm at the north end of the site.

The tank was removed from the site on January 20, 2006, and BBC collected one sample on January 23, 2006 at about four (4) feet bgs under the area where the tank sat. BTEX, GRO, and DRO were non-detect. Chlorides were 528 ppm. Due to the elevated chloride readings (1376 ppm) in the area on the north side of the site and the area underneath the former location of the tank (528 ppm), those areas were further excavated and sampled again by BBC on February 1, 2006. Two (2) samples taken under the former location of the tank showed that BTEX, GRO, and DRO were non-detect. Chlorides were 112 ppm and 16 ppm. Two (2) samples taken on the north side of the excavation contained 464 ppm and 32 ppm chlorides. BTEX, GRO, and DRO were non-detect.

On February 16, 2006, BBC personnel performed chloride field screens at five points throughout the site. Samples were taken first at three (3) feet bgs. Sample 1 had 160 ppm, Sample 2 had 640 ppm, Samples 3 and 4 had 240 ppm, and Sample 5 had 320 ppm.

Sample 2 was excavated in the immediate vicinity of the sample taken on February 1, 2006 on the north side of the excavation that previously showed 464 ppm in the laboratory analytical. Chloride field screens for samples 2 and 5 were in excess of 250 ppm. On February 20, 2006, the excavations at those locations were deepened and chloride field screens were run on samples collected at five (5) feet bgs. Chlorides were 600 ppm at both sample points. Both sample locations were widened and deepened, and samples taken at eight (8) feet bgs had 300 ppm at location 2 and 1,200 ppm at location 5.

Amerada notified NMOCD on February 22, 2006 of final samples to be collected on February 23, 2006.

BBC returned to the site on February 23, 2006 to widen and deepen sample locations 2 and 5 until field screens showed chloride concentrations to be near or below 250 ppm with all the excavated material being hauled. Field screens on Samples 2 and 5 were as follows. Sample 2 showed 440 ppm at eight and a half (8.5) feet bgs and 120 ppm at ten (10) feet bgs. Sample 5 had 680 ppm at eight and a half (8.5) feet bgs, 440 ppm at nine (9) feet bgs, 760 ppm at nine and a half (9.5) feet bgs, and 280 ppm at ten (10) feet bgs. Samples 1, 2, 3, and 5 were collected on February 23, however sample 4 was not taken on that day due to inclement weather. NMOCD was notified of the delay, and BBC collected sample 4 on February 24, 2006.

The closing samples were sent to a laboratory from sample locations 1, 3, and 4 at three (3) feet bgs and at ten (10) feet bgs for samples 2 and 5. Laboratory analysis showed that BTEX and GRO were non-detect, DRO ranged from non-detect to 31.2 ppm, and chlorides ranged from 32 ppm to 208 ppm.

A total of 232 cubic yards were hauled to a NMOCD approved landfarm. Backfilling and contouring of the site was completed on March 2, 2006.

4.0 CONCLUSION

According to the United States Geological Survey, depth to groundwater is shallower than 50 feet, and there is one surface water body within 1,000 horizontal feet of the site. Closing samples were non-detect for BTEX and GRO, DRO ranged from non-detect to 31.2 ppm, and chlorides ranged from 32 ppm to 208 ppm. The laboratory data for this site indicates that BTEX, TPH (GRO/DRO), and chloride levels are all within NMOCD guidelines.

APPENDIX I

Site Diagrams

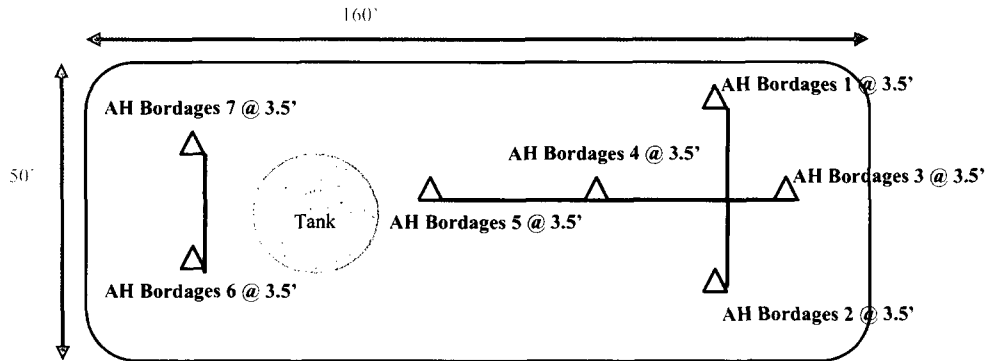
Great Western Bordages Battery #50 Monument, New Mexico

Prepared for:
Amerada Hess Corporation
Seminole, Texas

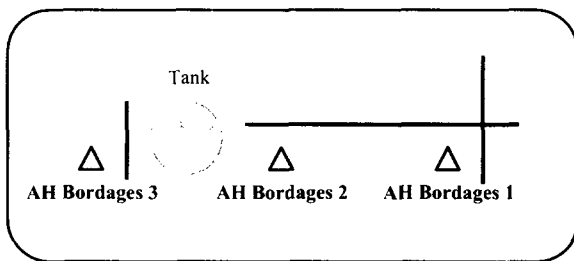
March, 2006

Prepared by:
BBC International, Inc.

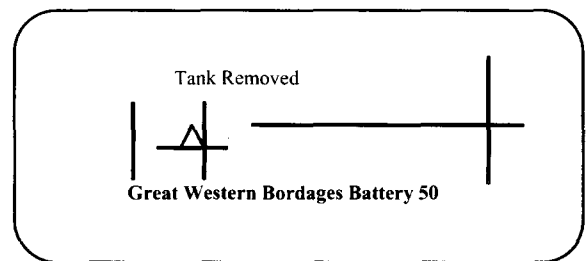
Amerada Hess Corporation Great Western Bordages Battery #50 Sampling



January 13, 2006



January 19, 2006



January 23, 2006

LEGEND

- Sample Points
- Site Dimensions (feet)
- Trenches

BBC INTERNATIONAL, INC.

Amerada Hess Corporation
Great Western Bordages (1-13-06 thru 1-23-06)

Date: 3-17-06

Drawn By: ACR

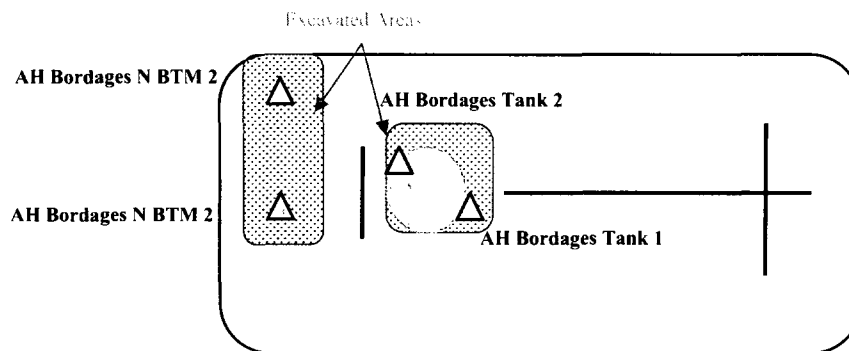
Disk:

Sheet 1 of 1 Sheets

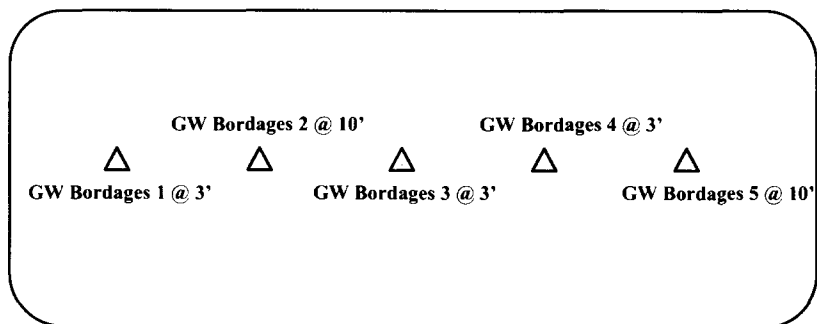
Scale: Not to Scale

File Name

Amerada Hess Corporation Great Western Bordages Battery #50 Sampling



February 1, 2006



February 23, 2006

LEGEND	
	Sample Points
	Site Dimensions (feet)

BBC INTERNATIONAL, INC.	
Amerada Hess Corporation Great Western Bordages (2-1-06 thru 2-23-06)	
Date: 3-17-06	Drawn By: ACR
Disk:	Sheet 1 of 1 Sheets
Scale: Not to Scale	File Name

APPENDIX II

Laboratory Analytical Results

Great Western Bordages Battery #50 Monument, New Mexico

Prepared for:
Amerada Hess Corporation
Seminole, Texas

March, 2006

Prepared by:
BBC International, Inc.



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

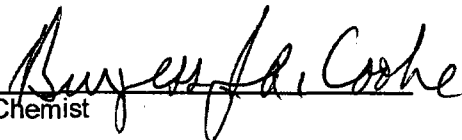
ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

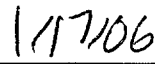
Receiving Date: 01/13/06
Reporting Date: 01/17/06
Project Owner: AMERADA HESS
Project Name: GREAT WESTERN BOARDAGES BATT. 50
Project Location: MONUMENT, NM

Sampling Date: 01/13/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)
		01/16/06	01/16/06
H10617-1	AH BOARDAGES 1 @ 3.5'	<10.0	17.8
H10617-2	AH BOARDAGES 2 @ 3.5'	<10.0	<10.0
H10617-3	AH BOARDAGES 3 @ 3.5'	<10.0	<10.0
H10617-4	AH BOARDAGES 4 @ 3.5'	<10.0	<10.0
H10617-5	AH BOARDAGES 5 @ 3.5'	<10.0	<10.0
H10617-6	AH BOARDAGES 6 @ 3.5'	<10.0	414
H10617-7	AH BOARDAGES 7 @ 3.5'	<10.0	<10.0
Quality Control		808	802
True Value QC		800	800
% Recovery		101	100
Relative Percent Difference		1.3	2.4

METHOD: SW-846 8015 M


Chemist


Date

H10617.XLS

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Page 1 of 1

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



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Receiving Date: 01/19/06
Reporting Date: 01/25/06
Project Number: NOT GIVEN
Project Name: GREAT WESTERN BORDAGES BATTERY 50
Project Location: MONUMENT. NM

Sampling Date: 01/19/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC/HM

LAB NUMBER SAMPLE ID		GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		01/24/06	01/24/06	01/20/06
H10642-1	AH BORDAGES 1	<10.0	43.6	80
H10642-2	AH BORDAGES 2	<10.0	<10.0	16
H10642-3	AH BORDAGES 3	<10.0	<10.0	1376
Quality Control		804	750	490
True Value QC		800	800	500
% Recovery		100	93.7	98
Relative Percent Difference		2.7	2.2	2.0

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

Burrill A. Cohe
Chemist

1/25/06
Date

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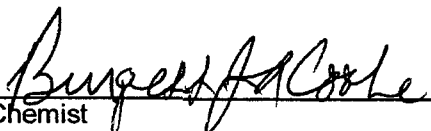
ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 01/19/06
Reporting Date: 01/25/06
Project Number: NOT GIVEN
Project Name: GREAT WESTERN BORDAGES BATTERY 50
Project Location: MONUMENT, NM

Sampling Date: 01/19/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		01/24/06	01/24/06	01/24/06	01/24/06
H10642-1	AH BORDAGES 1	<0.005	<0.005	<0.005	<0.015
H10642-2	AH BORDAGES 2	<0.005	<0.005	<0.005	<0.015
H10642-3	AH BORDAGES 3	<0.005	<0.005	<0.005	<0.015
Quality Control		0.104	0.098	0.096	0.283
True Value QC		0.100	0.100	0.100	0.300
% Recovery		104	98.1	96.0	94.4
Relative Percent Difference		0.8	2.5	8.8	5.0

METHOD: EPA SW-846 8260


Chemist

1/26/06
Date

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Page 1 of 1

Company Name: BBC International, Inc.		P.O. # Drager D	
Project Manager: Cliff Brunson		Company: Amerada Hess	
Address: 1324 W. Maryland		Attn: Sam Small	
City: Hobbs		Address:	
Phone #: 505-397-6388		State: NM Zip: 88240	
Fax #: 505-397-0397		City: Monument	
Project Owner: Amerada Hess		State: NM Zip: 88265	
Project Name: Great Western Boreholes Battery 50		Phone #:	
Project Location: Monument		Fax #:	
Sampler Name: Amy Ruth			

Lab I.D.	Sample I.D.	MATRIX				PRESERV.	SAMPLING
		GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL		
110642-1AH Boreholes 1							
2AH Boreholes 2							
3AH Boreholes 3							

Date	Time	Receivd By: (Lab Staff)	Checked By: (Initials)

Relinquished By: Amy Ruth	Received By: Cliff Brunson
Delivered By: (Circle One)	Checked By: MA

Sampler Relinquished: _____

Relinquished By: _____

Received By: _____

Delivered By: _____

Checked By: _____

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ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: AMY RUTH
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 01/23/06
Reporting Date: 01/25/06
Project Number: NOT GIVEN
Project Name: GREAT WESTERN BORDAGES BATTERY 50
Project Location: MONUMENT, NM

Sampling Date: 01/23/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC/HM

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
	ANALYSIS DATE	01/24/06	01/24/06	01/24/06
H10648-1	GW BORDAGES BATTERY 50	<10.0	<10.0	528
	Quality Control	804	750	490
	True Value QC	800	800	500
	% Recovery	100	93.7	98.0
	Relative Percent Difference	2.7	2.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB

*Analysis performed on a 1:4 w:v aqueous extract.

Chemist

Date

H10648A.XLS

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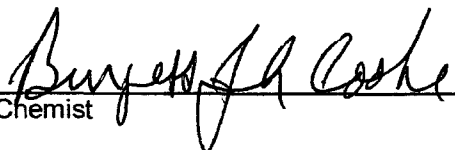
ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: AMY RUTH
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

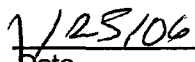
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Reporting Date: 01/25/06
Project Number: NOT GIVEN
Project Name: GREAT WESTERN BORDAGES BATTERY 50
Project Location: MONUMENT, NM

Sampling Date: 01/23/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC

LAB NO. SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE	01/24/06	01/24/06	01/24/06	01/24/06
H10648-1 GW BORDAGES BATTERY 50	<0.005	<0.005	<0.005	<0.015
Quality Control	0.104	0.098	0.096	0.283
True Value QC	0.100	0.100	0.100	0.300
% Recovery	104	98.1	96.0	94.4
Relative Percent Difference	0.8	2.5	8.8	5.0

METHOD: EPA SW-846 8260


Chemist


Date

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ARDINAL LABORATORIES, INC.

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

ANALYSIS REQUEST									
<div style="display: flex; justify-content: space-between;"> <div> Company Name: BRC International, Inc. Project Manager: Amy Ruth Address: P.O. Box 801 City: Hobbs State: NM Zip: 88241 Phone #: 505-397-0711 Fax #: 505-397-0397 Project #: Project Name: Grant western Borderages Tattler 50 Project Location: Monument, NM Sampler Name: Cliff Johnson </div> <div> P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #: </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div> Lab I.D. Sample I.D. X10648-1 Gw Borderages Tattler 50 </div> <div> Matrix: <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> WASTEWATER <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> CRUDE OIL <input type="checkbox"/> SLUDGE Preserv: <input type="checkbox"/> ACID/BASE <input type="checkbox"/> ICE/COOL <input type="checkbox"/> OTHER: </div> <div> Sampling: <input checked="" type="checkbox"/> 8:00 AM <input type="checkbox"/> 12:00 PM <input type="checkbox"/> 4:00 PM <input type="checkbox"/> 8:00 PM </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div> Receivd By: <i>Cliff Johnson</i> Date: 1/23/06 Time: 9:30 AM </div> <div> Receivd By: <i>Lab Staff</i> Date: 1/23/06 Time: 9:30 AM </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div> Delivered By: <i>Cliff Johnson</i> Date: 1/23/06 Time: 9:30 AM </div> <div> Delivered By: <i>Lab Staff</i> Date: 1/23/06 Time: 9:30 AM </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div> Sampler Relinquished: Signature: <i>Cliff Johnson</i> Date: 1/23/06 Time: 9:30 AM </div> <div> Receivd By: <i>Lab Staff</i> Date: 1/23/06 Time: 9:30 AM </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div> Remarks: 8015 MOD 13TEX C1010des </div> <div> Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Phone #: Fax #: </div> </div>									



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ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NBM 88241
FAX TO: (505) 397-0397

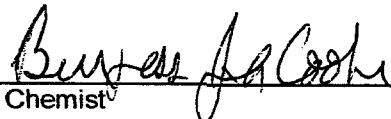
Receiving Date: 02/01/06
Reporting Date: 02/03/06
Project Owner: AMERADA HESS
Project Name: GREAT WESTERN BORDAGES BATTERY 50
Project Location: MONUMENT, NM

Sampling Date: 02/01/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C ₆ -C ₁₀) (mg/Kg)	(>C ₁₀ -C ₂₈) (mg/Kg)	(mg/Kg)
ANALYSIS DATE		02/02/06	02/02/06	02/02/06
H10692-1	AH BORDAGES N BTM. 1	<10.0	<10.0	464
H10692-2	AH BORDAGES TANK 1	<10.0	<10.0	112
H10692-3	AH BORDAGES TANK 2	<10.0	<10.0	16
H10692-4	AH BORDAGES N BTM. 2	<10.0	<10.0	32
Quality Control		793	742	500
True Value QC		800	800	500
% Recovery		99.1	92.7	100
Relative Percent Difference		<0.1	2.3	8.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI B

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


Chemist

2/3/6
Date

H10692A.XLS

PLEASE NOTE: **Liability and Damages.** 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 whatsoever 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, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC
ATTN: CLIFF BRUNSON
1324 WEST MARLAND
HOBBS, NM 88240
FAX TO: 505-397-0397

Receiving Date: 2/1/06
Reporting Date: 2/6/06
Project Number: NONE GIVEN
Project Name: GREAT WESTERN BORDAGES BATTERY 50
Project Location: MONUMENT

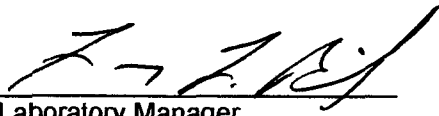
Sampling Date: 2/1/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: JC

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
------------	-----------	--------------------	--------------------	-------------------------	-----------------------------

ANALYSIS DATE:		2/4/06	2/4/06	2/4/06	2/4/06
H10692-1	AH BORDAGES N BOTTOM 1	<0.002	<0.002	<0.002	<0.006
H10692-2	AH BORDAGES TANK 1	<0.002	<0.002	<0.002	<0.006
H10692-3	AH BORDAGES TANK2	<0.002	<0.002	<0.002	<0.006
H10692-4	AH BORDAGES N BOTTOM 2	<0.002	<0.002	<0.002	<0.006

Quality Control	0.097	0.099	0.100	0.276
True Value QC	0.100	0.100	0.100	0.300
% Recovery	97	99	100	92
Relative Percent Difference	5.9	1.0	1.0	2.5

METHODS: EPA - SW 846-8021B, 5030B; Gas Chromatography


Laboratory Manager

2/6/06
Date

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name: BBC International, Inc.		P.O. #: 45-157156		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company: Amerada Hess			
Address: 1324 W. Marland		Attn: Randy Barnes			
City: Hobbs		Address:			
Phone #: 505-397-6388		State: NM			
Fax #: 505-397-0397		City: Albuquerque			
Project #: 505-397-6388		State: NM			
Project Name: Great Western Bldg. & Battery 50		Zip: 88245			
Project Location: Monument		Phone #:			
Sampler Name: Amy Ruth		Fax #:			

Lab I.D.	Sample I.D.	MATRIX				PRESERV.				SAMPLING			
		GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	
H10692-1	AH Bldg. N Bottom 1										2/1/06	853am	
-2	AH Bldg. Tank 1										2/1/06	858am	
-3	AH Bldg. Tank 2										2/1/06	902am	
-4	AH Bldg. N Bottom 2										2/1/06	908am	

FOR LAB USE ONLY

Lab I.D. Sample I.D.

10692-1 AH Bldg. N Bottom 1

-2 AH Bldg. Tank 1

-3 AH Bldg. Tank 2

-4 AH Bldg. N Bottom 2

TPH (8015 MOD) ✓

Chloride ✓

BTEX ✓

REMARKS: AFE # MDNUM 06ES001

Relinquished By: *Amy Ruth*

Delivered By: *Cliff Brunson*

Sampler: UPS - Bus - Other:

Received By: *Cliff Brunson*

Date: *2/1/06*

Time: *2:38pm*

Sample Condition: *Intact*

Checked By: *Cliff Brunson*

Initials: *CR*

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #: ☐ Yes ☐ No

Add'l Fax #: ☐ Yes ☐ No



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 850
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 02/24/06
Reporting Date: 03/03/06
Project Number: MONUM 06ES001
Project Name: GREAT WESTERN BORDAGES BATTERY 50
Project Location: MONUMENT, NM

Sampling Date: 02/23/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C ₆ -C ₁₀) (mg/Kg)	(>C ₁₀ -C ₂₈) (mg/Kg)	(mg/Kg)
ANALYSIS DATE		02/28/06	02/28/06	02/27/06
H10807-1	GW BORDAGES 1 @ 3'	<10.0	<10.0	208
H10807-2	GW BORDAGES 2 @ 10'	<10.0	<10.0	32
H10807-3	GW BORDAGES 3 @ 3'	<10.0	<10.0	192
H10807-4	GW BORDAGES 4 @ 3'	<10.0	31.2	112
H10807-5	GW BORDAGES 5 @ 10'	<10.0	<10.0	192
Quality Control		780	781	500
True Value QC		800	800	500
% Recovery		97.5	97.6	100
Relative Percent Difference		1.3	6.8	1.4

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI-B

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

Chemist

Date

H10807A.XLS

PLEASE NOTE: **Liability and Damages.** 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 whatsoever 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, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

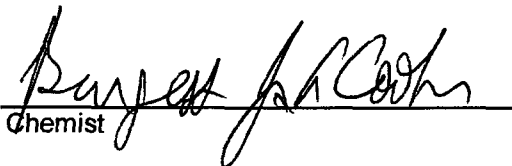
ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 850
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 02/24/06
Reporting Date: 03/02/06
Project Number: MONUM 06ES001
Project Name: GREAT WESTERN BORDAGES BATTERY 50
Project Location: MONUMENT, NM

Sampling Date: 02/23/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		03/01/06	03/01/06	03/01/06	03/01/06
H10807-1	GW BORDAGES 1 @ 3'	<0.005	<0.005	<0.005	<0.015
H10807-2	GW BORDAGES 2 @ 10'	<0.005	<0.005	<0.005	<0.015
H10807-3	GW BORDAGES 3 @ 3'	<0.005	<0.005	<0.005	<0.015
H10807-4	GW BORDAGES 4 @ 3'	<0.005	<0.005	<0.005	<0.015
H10807-5	GW BORDAGES 5 @ 10'	<0.005	<0.005	<0.005	<0.015
Quality Control		0.099	0.091	0.091	0.283
True Value QC		0.100	0.100	0.100	0.300
% Recovery		99.2	90.7	91.2	94.3
Relative Percent Difference		0.2	9.0	3.6	0.2

METHOD: EPA SW-846 8260


Chemist

3/2/06
Date

PLEASE NOTE: **Liability and Damages.** 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 whatsoever 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, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2478

Company Name: BBA International, Inc.

Project Manager: Cliff Brunson

Address: 1324 W. Marland

City: Hobbs

Phone #: 505-397-6388

Project #: MONUM 06ES001

Project Name: Great Western Boreages Battery 50

Project Location: Monument

Sampler Name: Amy Ruth

FOR LAB USE ONLY

BILL TO

P.O. # 45-157156

Company: Amerado Hess

Attn: Randy Barnes

Address:

City:

State:

Zip:

Phone #:

Fax #:

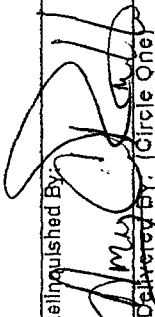
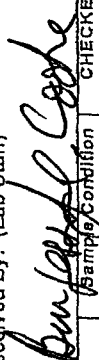
ANALYSIS REQUEST

Page 1 of 1

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	PRESERV.	SAMPLING	DATE	TIME	TPH 8015 MOD	BTEX	Chloride
H108074	GW Boreages 1 @ 3'	G 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2/23/06	1115 am	✓	✓	✓
-2	GW Boreages 2 @ 10'	G 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2/23/06	1036 am	✓	✓	✓
-3	GW Boreages 3 @ 3'	G 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2/23/06	1105 am	✓	✓	✓
-4	GW Boreages 4 @ 3'	G 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2/24/06	1915 am	✓	✓	✓
-5	GW Boreages 5 @ 10'	G 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2/23/06	1052 am	✓	✓	✓

PLEASE NOTE: Liability and Damages: Cardinal's liability and claims exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or (related to the performance of services rendered by Cardinal), regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Sampler Relinquished: Date: Time: Received By: Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #:

Relinquished By:  Date: 2/24/06 Time: 1155 am
Delivered By: (Circle One)  Checked By: (Initials)
Sampler - UPS - Bus - Other: ☐ Yes ☒ No

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

APPENDIX III

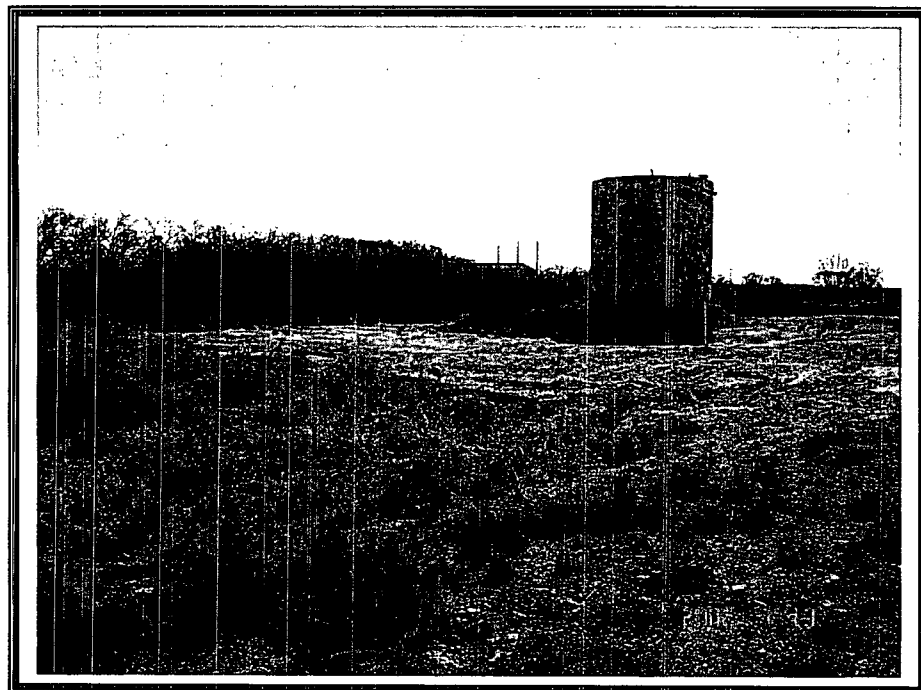
Site Photographs

Great Western Bordages Battery #50 Monument, New Mexico

Prepared for:
Amerada Hess Corporation
Seminole, Texas

March, 2006

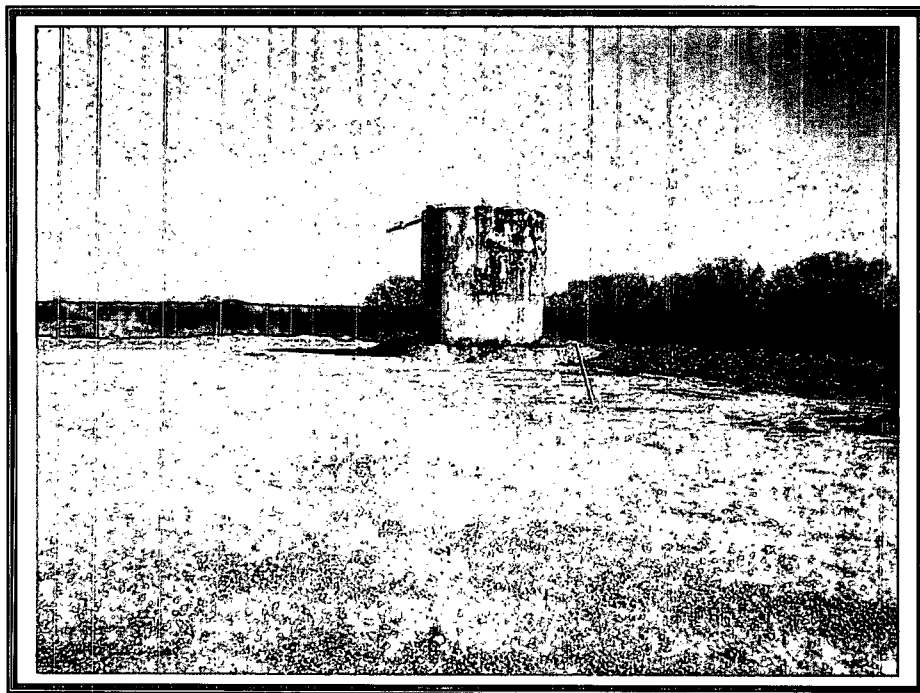
Prepared by:
BBC International, Inc.



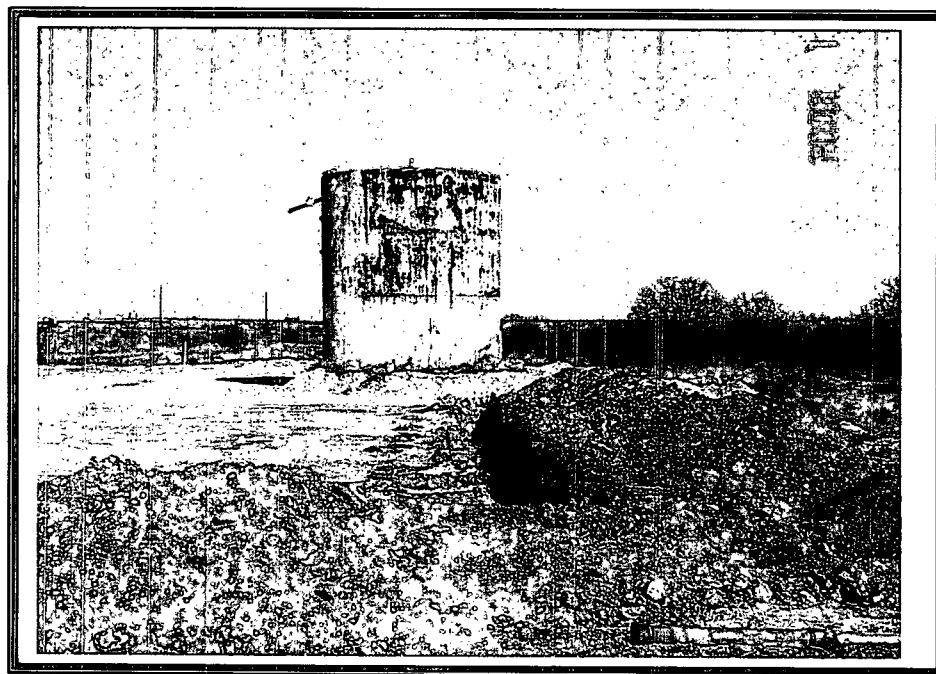
Great Western Bordages Battery #50 after sample trenches excavated.



Great Western Bordages Battery #50 after sampling, backfill, and contour.



Great Western Bordages Battery #50 after sample trenches excavated.



Great Western Bordages Battery #50 after sample trenches excavated.

APPENDIX IV

Correspondences

Great Western Bordages Battery #50 Monument, New Mexico

Prepared for:
Amerada Hess Corporation
Seminole, Texas

March, 2006

Prepared by:
BBC International, Inc.

Barnes, Randy

From: Barnes, Randy
Sent: Wednesday, February 22, 2006 7:00 AM
To: 'psheeley@state.nm.us'
Cc: Baker, Jay
Subject: Sampling Event-Amerada Hess Monument Abandoned Battery

Paul

We will be taking closing samples on the Great Western Boardages Battery #50 on February 23rd at 8:30 a.m.

Amerada Hess Great Western Boardages Battery #50

N 32degrees 37.527'

w 103 degrees 15.496'

Sec 28, T-19s, R-37E

Randy Barnes

Production Foreman

Amerada Hess Corporation

rbarnes@hess.com

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-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	Amerada Hess Corporation	Contact	Randy Barnes
Address	P.O. Box 840, Seminole, TX 79360	Telephone No.	(432) 758-6778
Facility Name	Great Western Bordages Battery #50	Facility Type	Abandoned Tank Battery
Surface Owner	Mineral Owner	Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	28	19S	37E					

45' Latitude 32° 37.543' Longitude 103° 15.508'

NATURE OF RELEASE

Type of Release	Historical	Volume of Release	Unknown	Volume Recovered	Unknown
Source of Release	Unknown	Date and Hour of Occurrence	Date and Hour of Discovery		
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required				
By Whom?	If YES, To Whom?				
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.*

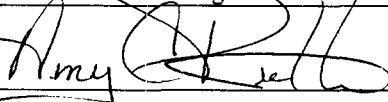
Describe Cause of Problem and Remedial Action Taken.*

Hydrocarbon contamination of soil by oil production activities. Site investigation was conducted in preparation for cleanup activities. Multiple soil samples were collected and sent to a laboratory for analyses. A remediation plan was developed.

Describe Area Affected and Cleanup Action Taken.*

Contaminated soil was removed from the site and taken to a NMOCD approved landfarm. Before backfilling, closing samples were collected to confirm compliance to guidelines. The site was backfilled with clean soil, contoured, and reseeded.

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: Amy C. Ruth		Approved by District Supervisor:	
Title: Environmental Scientist	Approval Date:	Expiration Date:	
E-mail Address: amy@bbciinternational.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 5/9/06	Phone: (505) 397-6388		

* Attach Additional Sheets If Necessary