1R-427-227

REPORTS

DATE:

4-1-08

EME Laughlin 'A' EOL

1R427-227

CLOSURIE LA 1-08

RICE OPERATING COMPANY

JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNT	Y NEW BOX	X DIMENSIONS	- FEET
Eunice-Monument-	Laughlin 'A'	0	5	208	37E	Lea	Length	Width	Depth
Eumont (EME)	EOL		L	200]	Lea	no box	c; junction elimina	ited
LAND TYPE: E	BLMSTA	ATE	FEE LANDO	OWNERM	lartha Laughl	in Williams	OTHER		
Depth to Grour	ndwater	<50	feet	NMOCD	SITE ASSE	SSMENT	Γ RANKING S	CORE:	20
	1/11/20								
Soil Excavated						-			
									3
3011 Disposed	0	cubic yar	as On	site Facility	f 1)	d	Location	11/6	1
FINAL ANALY	TICAL RES	SULTS:	Sample	e Date	n/a		Sample De	epth	n/a
5-point composite sidewalls. TPI approved labora	H and chloride	laboratory te	est results o	completed b	y using an		CHLOR	RIDE FIELD TE	STS
							LOCATION	DEPTH (#)	ppm
Sample	<u>PID</u> (field	· 1	<u>80</u>	<u>DRO</u>	<u>Chloride</u>				
Location	ppm	mg.	/kg	mg/kg	mg/kg	-		no samples collected by Rice	
4-WALL COMP	<u> </u>	no san	nples col	lected by	/			Operating	
ВОТТОМ СОМЕ	P		perating	,		4	<u> </u>	Company	
BACKFILL					<i></i>				
General Description	on of Remedial		This junction	box was locate	ed within a proc	duction batt	ery that has been	abandoned. This	
junction has been elimin	nated and the site v	vas encompas	sed within the	excavation an	d remediation	of the batter	ry by the produce	r in 2006. The su	rface of
this site has returned to	productive capacit	y and no furthe	er investigation	by Rice Oper	ating is warran	ited.			
					· · · · · · · · · · · · · · · · · · ·				
						en	closures: photos,	6/20/2006 battery	closure report
I HEREB	BY CERTIFY TH	AAT THE IN		DN ABOVE LEDGE AN		ND COMF	PLETE TO TH	E BEST OF M	Y
REPORT ASSEMBLE	D BY Kr	istin Farris Pop	De	SIGNATURE	Kn	i.	Larie	Pope	
D	ATE	1/14/2008		TITLE			Project Scien	ntist /	



undisturbed junction box

8/19/2003

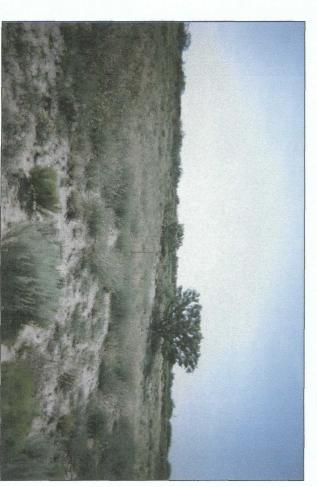


former box site (marked by stake) at abandoned battery site

7/9/2007

EME Laughlin 'A' EOL

Unit O, Section 5, T20S, R37E



former box site (marked by stake) at abandoned battery site



HESS CORPORATION

Graham Resources Laughlin Battery #82 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



June 20, 2006

PREPARED FOR:

MR. RANDY BARNES HESS CORPORATION P.O. BOX 840

SEMINOLE, TX 79360

19360. Jacility - FPACO 620926082 Incident - nPACO 62096262 Capalization - pPACO 62096350

E-MAICADDRESS,

Hess Corporation Graham Resources Laughlin Battery #82

1.0 INTRODUCTION

The subject site is north of Monument, New Mexico in Lea County in Unit Letter O, of Section 5, Township 20 South, and Range 37 East. The site is an abandoned tank battery. The Hess Corporation (Hess) 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 52,000 square feet including a burn pit. There is no water source within 1,000 feet of the site. There is no surface water within 1,000 feet of the site. 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

Hess retained E.D. Walton Construction (E.D. Walton) to excavate the site and haul contaminated soil to a landfarm approved by NMOCD. BBC International, Inc. (BBC) was also retained by Hess to collect soil samples for laboratory analysis. The site was scanned for naturally occurring radioactive materials (NORM), and readings were normal. Excavation began on January 11, 2006.

A burn pit was located at the southwest corner of the site. On February 1, 2006, a sample was taken at a depth of fifteen (15) feet below ground surface (bgs) at the center of the burn pit. Laboratory analyses on the sample included Chloride, Benzene-Toluene-Ethylbenzene-Xylene (BTEX), and Total Petroleum Hydrocarbons (TPH) – gasoline range organics (GRO)/diesel range organics (DRO). Chloride was 16 parts per million (ppm), GRO was 20.4 ppm, and DRO was 780 ppm. Benzene was 0.263 ppm, Toluene was 0.107 ppm, Ethylbenzene was 0.745 ppm, and Total Xylenes were 0.471 ppm. All site diagrams can be found in Appendix I, laboratory analyticals can be found in Appendix II, site photographs can be viewed in Appendix III, and email correspondences can be found in Appendix IV.

BBC International, Inc.

NMOCD was notified on March 9, 2006 of closing samples to be collected March 13, 2006. Seven (7) samples were collected from the excavation floor at three (3) feet bgs. GRO was non-detect in all of the samples, and DRO ranged from non-detect to 72 ppm in six (6) of the samples. Sample 5 contained 314 ppm DRO. Chlorides ranged from 16 ppm to 80 ppm, and BTEX was non-detect in every sample except for sample 6. In sample 6, Benzene was 0.003 ppm, Toluene was 0.006 ppm, Ethylbenzene was 0.002 ppm, and Total Xylenes were 0.010 ppm.

The area around sample 5 was excavated an additional foot. On March 24, 2006, NMOCD was informed of the sampling results and that sample 5 would be retaken on March 29, 2006. Sample 5 was collected at four (4) feet bgs. TPH and BTEX were non-detect, and chlorides were 16 ppm.

On March 17, 2006, BBC notified NMOCD of drilling and sampling to take place at the burn pit on March 20, 2006. One (1) soil boring, SB 1, was placed in the center of the pit, and four (4) soil borings (SB 2, SB 3, SB 4, SB 5) were placed around the perimeter of the pit. SB 1 was drilled to thirty (30) feet bgs with samples taken at three (3) feet, five (5) feet, and at every five foot interval thereafter. The perimeter soil borings were drilled to twenty (20) feet bgs, and were sampled in the same manner as SB 1.

Samples at SB 1 showed that TPH was non-detect at 3', however, there were 3,659 ppm at 5', 3,452 ppm at 10', and 2,137 ppm at 15'. The remaining samples for SB 1 were non-detect for TPH. The perimeter soil boring samples were non-detect for TPH except the 3' and 5' samples taken at SB 4, which were 1,100 ppm and 861 ppm respectively.

BTEX was detected at SB 1 to a depth of 15'. The 3' sample was non-detect for BTEX, however the 5' sample contained 0.238 ppm. The 10' sample contained 2.042 ppm, and the 15' sample had 0.865 ppm BTEX. BTEX was non-detect in all remaining SB 1 samples to 30' bgs. Samples in all other soil borings were also non-detect for BTEX.

At SB1, chlorides were less than 250 ppm in all samples except 15' to 25' bgs. The 15' sample was 496 ppm, the 20' sample was 704 ppm, and the 25' sample was 656 ppm. Chlorides were back to 176 ppm at 30' bgs. At SB 2, chlorides were below 250 ppm except the 20' sample which was 256 ppm. At SB 3, all samples above 20' were below 250 ppm. At 20' bgs, chlorides were 304 ppm. All samples collected from SB 4 and SB 5 showed chlorides to be under 250 ppm.

On March 31, 2006, BBC personnel spoke to NMOCD and proposed to excavate the burn pit to 10' bgs, install a clay liner, and backfill with clean soil. The proposal was approved.

Pacel

A total of 7,820 cubic yards were hauled to a landfarm. A 2' clay liner was placed in the bottom of the burn pit, and backfilling of the site and burn pit was completed on April 17, 2006 with 8,984 cubic yards of clean soil. The site was reseeded on May 4, 2006.

4.0 CONCLUSION

According to the United States Geological Survey, depth to groundwater is less than 50 feet. There are no water sources or surface water bodies within 1,000 horizontal feet. The laboratory data for this site indicates that BTEX, TPH (GRO/DRO), and chloride levels are all within NMOCD guidelines.

BBC International, Inc.

APPENDIXI

Site Diagrams

Graham Resources Laughlin Battery #82
Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

June, 2006

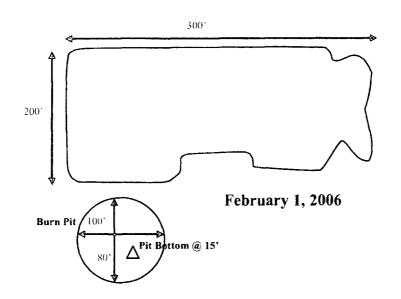
Prepared by: BBC International, Inc.

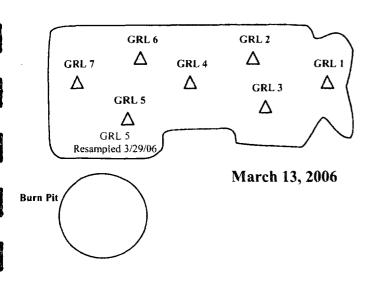
ness curpuration

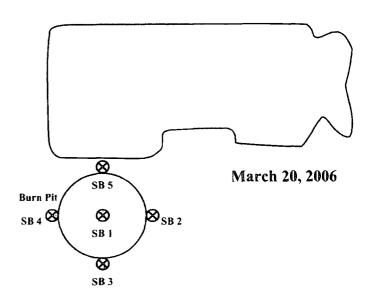
Graham Resources Laughlin Battery #82 Sampling



N







LEGEND

△ Excavation Floor Sample Points

Soil Borings (Sampled at 3', 5', and 10')

BBC INTERN	ATIONAL, INC.
	orporation s Laughlin Battery #82
Date: 5-15-06	Drawn Bv: ACR
Dísk:	Sheet 1 of 1 Sheets
Scale: Not to Scale	File Name

APPENDIXII

Laboratory Analytical Results

Graham Resources Laughlin Battery #82
Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

June, 2006

Prepared by: BBC International, Inc.



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: 02/06/06

Project Owner: AMERADA HESS

Project Name: GRAHAM RESOURCES LAUGHLIN BATTERY 82

Project Location: MONUMENT, NM

Sampling Date: 02/01/06

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: NF Analyzed By: BC/HM

2.3

8.0

DRO

LAB NUMBER SAMPLE ID	(C ₆ -C ₁₀) (mg/Kg)	(>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE	02/02/06	02/02/06	02/02/06
H10694-1 AH GRL PIT BOTTOM	20.4	780	16
Quality Control	793	742	500
True Value QC	800	800	500
% Recovery	99.1	92.7	100

GRO

<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analysis performed on a 1:4 w.v aqueous extract.

Chemist JA Coole

Relative Percent Difference

Date

H10694A.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.





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: GRAHAM RESOURCES LAUGHLIN BATTERY 82

Project Location: MONUMENT

Sampling Date: 2/1/06 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: JC

TOTAL

LAB NUMBER SAMPLE ID

BENZENE TOLUENEETHYLBENZEI XYLENES (mg/kg) (mg/kg) (mg/kg) (mg/kg)

ANALYSIS DATE:	2/3/06	2/3/06	2/3/06	2/3/06
H10694-1 AH GRL PIT BOTTOM	0.263	0.107	0.745	0.471

Quality Control	0.105	0.101	0.102	0.277
True Value QC	0.100	0.100	0.100	0.300
% Recovery	105	101	102	92.3
Relative Percent Difference	7.1	1.7	0.9	4.7

METHODS:

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

Laboratory Manager

Date

2/6/06

ō

Page

A ARDINAL 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

30 days part due at his rain of 26% per arctics from the original date of howles and at costs of costsections, trial date of orders of less. REQUES AFE# MONUM BLESDOI ANAL YSIS Add'l Phone #: Add'l Fax #: 원 일 일 일 *319* O Yes HOLL 5198 TOW Fax Result: REMARKS 1030 am Company: Amerada Hess Altn: Randy Barnes LIME EUSE WITE LEAST AND COMMON CACAST ELEST AND SEASON CALLOS FOR MY AND THANKS DEAD INCREASE FIRST WITH MAD TO THE WASHINGTON TO THE WITH MY THANKS TO THE WASHINGTON TO THE WASH Margary SAMPLING P.O. # 45-15715 ON: Plonusment BILL TO 20/1/2 DATE State: NAT ZID: CKED BY: (Initials) PRESERY : ABHTO Address: Phone #: CE I COOF Fax #: **PCID/BASE** OTHER: Cool Intact 7ess BOORTS CKNDE OIF Received By: (Lab 07288 Project Owner: Amer 2062 Fax # 505-397-039 NOS **ABTAWBT2AW** Received By **ЗЕТАМОИИОЯ** nternational, Inc Jushlin # CONTAINERS State: NM 21p: (G) 848 OR (C) OMP. infance a recovery 22 of a reason to by pertamone of review breather by Cardial Sampler Relinquished: Dotton Project Hames (Araham Kesawroog Date: Brunson Marland Tme: Sample I.D. (BUM MUG) Phone # 505- 347-6388 GRL Sampter - UPS - Bus - Other: By: 101/cle one Sampler Name: [+antw Company Name: BBC AH Project Location: Address: (324 Project Manager: CITY: HOPBS Relinguished By , FOR LAB USE CINLY Lab I.D. 410694 Project 外 EM.

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



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

Receiving Date: 03/14/06 Reporting Date: 03/18/06 Sampling Date: 03/13/06 Sample Type: SOIL

Project Number: MONUM 04ES003

Sample Condition: COOL & INTACT

Project Name: GRAHAM RESOURCES LAUGHLIN BATTERY 82

Sample Received By: BC

Project Location: MONUMENT, NM

Analyzed By: BC/AB

LAB NUMBER SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO $(>C_{10}-C_{28})$ (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE	03/16/06	03/16/06	03/14/06
H10890-1 GRL 1	<10.0	<10.0	64
H10890-2 GRL 2	<10.0	20	16
H10890-3 GRL 3	<10.0	<10.0	16
H10890-4 GRL 4	<10.0	72	16
H10890-5 GRL 5	<10.0	314	80
H10890-6 GRL 6	<10.0	50.0	32
H10890-7 GRL 7	<10.0	67	16
Quality Control	808	796	500
True Value QC	800	800	500
% Recovery	101	99.5	100
Relative Percent Difference	4.2	0.6	0.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl⁻: Std. Methods 4500-Cl⁻B *Analyses performed on 1:4 w.v aqueous extracts.

Chemist

Date



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

Receiving Date: 3/14/06 Reporting Date: 3/20/06

Project Number: MONUM 04ES003

Project Name: GRAHAM RESOURCES LAUGHLIN

BATTERY 82

Project Location: MONUMENT

Sampling Date: 3/13/06 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: JC

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE		03/16/06	03/16/06	03/16/06	03/16/06
H10890-1	GRL1	<0.002	<0.002	<0.002	<0.006
H10890-2	GRL2	<0.002	<0.002	<0.002	<0.006
H10890-3	GRL3	<0.002	<0.002	<0.002	<0.006
H10890-4	GRL4	<0.002	<0.002	<0.002	<0.006
H10890-5	GRL5	<0.002	<0.002	<0.002	<0.006
H10890-6	GRL6	0.003	0.006	0.002	0.010
H10890-7	GRL7	<0.002	<0.002	<0.002	<0.006
Quality Control	· · · · · · · · · · · · · · · · · · ·	0.097	0.094	0.098	0.297
True Value QC		0.100	0.100	0.100	0.300
% Recovery		97	94	98	99
Relative Percent	Difference	9.2	5.7	4.7	5.2

METHODS:

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

Buyes of Cooke

Date

A ARDINAL LABORATORIES, INC.

NM 88240	93-2476
01 East Marland, Hobbs,	105) 393-2326 Fax (505) 3
2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240	(914) 673-7001 Fax (915) 673-7020 (605) 393-2326 Fax (505) 393-2476

0000				A SISY IANA	REOWEST
1	Trai			1	
Project Manager. Cliff Brunson		P.O. # 45-157648	48		
Address: 1324 W. Marland		Company: Amerada Hess	a Hess		
1-7	J ZID: 88240	Attn: Randy Barnes	nes		
# 505-397-6388 F	5-397-0397	Address:			
See3	_	-			
17m Resour		State: TX Zip:	90		
unent	1	Phone #:	W.		
A					
	MATRIX	PRESERV. SAMPLING			
:	ев '2		78		
	HER TAW TAI	⊃Г ?E:	Н	, 7	-
Lab i.b.	O BARIO SOUND SOUND ASTEW JIC SUDE C	THER:	140	10	
	Ch /M del	0. 0.	IIME		
W10990-1 GRL 1	6 1 2	1/3/3/00	V V MEDICAL		
2 19RL 2	7	V 3/3/ct	(13/ot 1020 am V N		
-3 GRL 3		13/06	1022 am V V		
-4 GRL 4	611	1/ 3/13/06	13/de 1024 dan X X X		
ZGRL 5	G /	13/13/06	13/06/10:27:am V V V		
-6 GRL 6		V/ 3/13/06	3/13/06 1029am V V V		
-7 GRL 7	G / ×	10/21/2	3/13/06/1032 am V V		
R E.S.C. KOTTE: Lander and Dumpoe, Cardona's lability and thorts, exclusive semanty for any claim scheig wheeler beaute	ary claim artistic substitute beased in construct or to	In contract or lock which he tended to he amount part by the chert for the	he client for the	Terms and Conducted like with	AND IN FIRST OF BATTLES FOR THE EXPLORATION THREE TWO THE THE MANAGES AND THE STATE THE STATE OF STATES AND THE
states, in the second to the second to the second the second seco	deemed waked whose mode in writing and rectly without furthation, business brompitions, bose of	writing and received by Cardinal within 30 days after completeled of the hypiocales mapping, bee of use, or bee of profits incurred by effect, its substitution,	skelen of the supplements to substitution,	pedos je staco je bros	and all coeffs of collections, the Acts adopting's feet.
infactor or nowards assists out of or feethal to the performance of services have noted by Cardinal, tabuscust of whother	Cardral, regardess of whother auch dawn it be	AUTH CHAIN IN Desired upon any al the shows stated reasons	lesult:	C No Add'l Phone #:	
Sampler Keiinquisheq;	ישרפונפו הלי		Fax Regult; Tres	□No Add!Fax#;	
IIme:					
Relingwished By Date, Oc	Received By: (Lab Staff)	000			
Time: Time: 1210 pm	200C	the Carry			
Delivered By: Circle Che]	ĕ <u>₹</u>	on CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:	88 × × × × × × × × × × × × × × × × × ×			•	
	1				

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





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

Receiving Date: 03/30/06 Reporting Date: 04/03/06

Project Number: MONUM 04ES003

Project Name: GRAHAM R. LAUGHLIN BATTERY 82

Project Location: MONUMENT, NM

Analysis Date: 03/31/06 Sampling Date: 03/29/06 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: AB

		CI [_]
LAB NO.	SAMPLE ID	(mg/kg)

,	
H10960-1 GRL #5	16
·	
Quality Control	500
True Value QC	500
% Recovery	100.0
Relative Percent Difference	0.0

METHOD: Standard Methods 4500-CIB

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

Hose S. Yveno-Chémist

04-04-06

Date

H10960





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

Receiving Date: 3/30/06

Project Owner: AMERADA HESS
Project Number: MONUM 04ES003

Project Name: GRAHAM R LAUGHLIN BATTERY 82

Project Location: MONUMENT

Reporting Date: 4/4/06

Sampling Dates: 3/29/06

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: JC

LAB ID	SAMPLE ID	GRO	DRO	TOTAL			ETHYL-	TOTAL
		C6-C12	>C12-C28	TPH	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
H10960-1	GRL#5	<50.00	<50.00	<50.00	<0.002	<0.002	<0.002	<0.006
Extraction Date	9:	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06
Analysis Date:		04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06
Method Blank		<50.00	<50.00	<50.00	<0.002	<0.002	<0.002	<0.006
LCS				415b-	0.105	0.100	0.100	0.301
True Value LC:	S		Talkar, I	8.44	0.100	0.100	0.100	0.300
LCS % Recove	ery	非事业 。			105%	100%	100%	100.3%
Matrix Spike (N	/IS)			478	357	a de la companya de	, F	F
Matrix Spike D	up (MSD)			491	111 100		100	
True Value Ma	trix Spike		1933	500			386 6 7 7	CONTRACTOR
MS % Recover	ý		New York St.	95.5%	taabba sa		TOTAL MARKET	765
MSD % Recov	ery		THOUGHT.	98.3%				
Matrix Spike R	PD	124,424	76	2.9%	7.4%	8.8%	7.0%	4.6%
FLAGS:	The state of the s			*			-L	
1					,			

Methods: TPH SW-846 8015M; BTEX-MTBE SW-846 8021B, 5030B

Chemis

Date

ARDINAL LABORATORIES, INC.

per servers treat the selected date of transfer 30 days pured due at his fram of \$2.5 per serum has und at constant consections, healthey accounty's free REQUES ANALYSIS closing sample JOW _9108 Chloride of specified by Carolinal militain 30 days as in comprison of the repolated bear of uses, or been of profits from ad by deers, he subsidiandes, 3/29/06 819 am Company: Honer add Hes Sarnes TIME creams pass by the cheek for the SAMPLING cty: Seminole DATE P.O. # 45-157 101 East Marland, Hobbs, NM 88240 case wrotoern first by beeind valved tribes made it with and received by Cardini within 30 days allow exercis conveys, traited within the facts between Mempelon, here of use, or loss of profits hearted by discontinuous. CHECKED BY: Zlp: BILL (505) 393-2326 Fax (505) 393-2478 Attn: Kandy (Inftials) PRESERV. : язнто ICE I COOF Phone #: Address Starte: Fax#: :35AB\GIOA : яэнто Received By: (Lab Staff) **PLUDGE** DUES ON 3 Project Owner: Honerada Hess Fax# 505-397-0397 HATRU CKNDE OIF 07288 8 ROIL PLESE KOTE. Liberty and Domunian. Cardina's Biology and charge exclusive remards for any claim whitey whaten based **MASTEWATER** Justilin Ballery **ЗВО**ИИ**В**МАТЕЯ # CONTAINERS State: N/M Zlp: (G) 278 (C) OMP. 2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020 Internationa Date:/20/06 intia a rassen artique of a rassale de paramera el parken balande de Sampler Relinques helande de la factor d Grunson Marland Time: Sample I.D. Phone #. 505-397-6388 Sampler UPS - Bus - Other: Graham Lingson, Al Dodra Trackly Book for modernoon serveds. Into every stad Condinal by faces for trace Project # MONUM Project Manager: Company Name: Project Location: Railpaulshed By: Sampler Name: Project Marne: FOR USE USE COLY H10960-1 Lab LD. Address: Clty:

[†] Cardinal cannot accept yerbal changes. Please fax written changes to 505-393-2476.



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

Receiving Date: 3/21/06

Project Owner: AMERADA HESS

Project Number: MONUM 04ES003

Project Name: GRAHAM RESOURCES LAUGHLIN BURN PIT

Project Location: MONUMENT Reporting Date: 3/27/06

Sampling Dates: 3/20/06 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: JC

LAB ID	SAMPLE ID	GRO	DRO	TPH			ETHYL-	TOTAL
_		C6-C12	>C12-C28	Total	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
H10916-1	SB1 3'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-2	SB1 5'	169	3490	3659	0.081	0.026	0.021	0.110
H10916-3	SB1 10'	329	3123	3452	0.924	0.291	0.194	0.633
H10916-4	SB1 15'	377	1760	2137	0.529	0.101	0.089	0.146
H10916-5	SB1 20'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-6	SB1 25'	<50.0	<50.0	<50.0	< 0.002	<0.002	<0.002	<0.006
H10916-7	SB1 30'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-8	SB2 3'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-9	SB2 5'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-10	SB2 10'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-11	SB2 15'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-12	SB2 20'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-13	SB3 3'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-14	SB3 5'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-15	SB3 10'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006

Extraction Date:	03/24/06	03/24/06	03/24/06
Analysis Date:	03/24/06	03/24/06	03/24/06
Method Blank	<50.00	<50.00	<50.00
LCS	110		
True Value LCS		4,000,000	100
LCS % Recovery			
Matrix Spike (MS)	44 3 14 14 7 1	16 - 15 4 - 10 1	461
Matrix Spike Dup (MSD)	The second	16.	477
True Value Matrix Spike		4. T. F. 11.	500
MS % Recovery	7	and the same	92.2%
MSD % Recovery			95.4%
Matrix Spike RPD		P. 3. 18	3.4%
FLAGS:	and the same of th		L

3.9%	5.2%	4.1%	4.8%
14 4 - 146 94		and Life and the	
and Control		101 June 1	MICO NO.
# T		Taranta in Spa	330
	41 24 70	4.0	
			1000
98.0%	93.0%	97.0%	98.3%
0.100	0.100	0.100	0.300
0.098	0.093	0.097	0.295
<0.002	· <0.002	<0.002	<0.006
03/23/06	03/23/06	03/23/06	03/23/06
03/23/06	03/23/06	03/23/06	03/23/06

Methods: SW-846 8015 M; BTEX-MTBE SW-846 8021B, 5030B

Chemist Ad Cook

3/27/06 Date

H10916BTEX-TPHSOIL[1].xls





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

Receiving Date: 3/21/06

Project Owner: AMERADA HESS
Project Number: MONUM 04ES003

Project Name: GRAHAM RESOURCES LAUGHLIN BURN PIT

Project Location: MONUMENT

Reporting Date: 3/27/06

Sampling Dates: 3/20/06 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: JC

3/21700							
SAMPLE ID	GRO	DRO	TPH			ETHYL-	TOTAL
	C6-C12	>C12-C28	Total	BENZENE	TOLUENE	BENZENE	XYLENES
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB3 15'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
SB3 20'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
SB4 3'	<50.0	1100	1100	<0.002	<0.002	<0.002	<0.006
SB4 5'	<50.0	861	861	< 0.002	< 0.002	<0.002	<0.006
SB4 10'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
SB4 15'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
SB4 20'	<50.0	<50.0	<50.0	< 0.002	<0.002	<0.002	<0.006
SB5 3'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
SB5 5'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
SB5 10'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
SB5 15'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
SB5 20'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
	03/24/06	03/24/06	03/24/06	03/23/06	03/23/06	03/23/06	03/23/06
	03/24/06	03/24/06	03/24/06	03/23/06	03/23/06	03/23/06	03/23/06
	<50.00	<50.00	<50.00	<0.002	<0.002	<0.002	<0.006
				0.098	0.093	0.097	0.295
	#			0.100	0.100	0.100	0.300
	SAMPLE ID SB3 15' SB3 20' SB4 3' SB4 5' SB4 10' SB4 15' SB4 20' SB5 3' SB5 5' SB5 10' SB5 15' SB5 20'	SAMPLE ID C6-C12 (mg/kg) SB3 15' S50.0 SB3 20' SB4 3' S50.0 SB4 5' S50.0 SB4 10' SB4 15' S50.0 SB4 20' SB5 3' S50.0 SB5 5' S50.0 SB5 5' S50.0 SB5 10' SB5 15' S50.0 SB5 20' SB5 20' S50.0	SAMPLE ID GRO DRO C6-C12 >C12-C28 (mg/kg) (mg/kg) SB3 15' <50.0 <50.0 SB3 20' <50.0 <50.0 SB4 3' <50.0 1100 SB4 5' <50.0 861 SB4 10' <50.0 <50.0 SB4 15' <50.0 <50.0 SB5 20' <50.0 <50.0 SB5 3' <50.0 <50.0 SB5 3' <50.0 <50.0 SB5 5' <50.0 <50.0 SB5 10' <50.0 <50.0 SB5 15' <50.0 <50.0 SB5 10' <50.0 <50.0 SB5 20' <50.0 <50.0	SAMPLE ID GRO C6-C12 (mg/kg) DRO TPH (mg/kg) Total (mg/kg) SB3 15' <50.0 <50.0 <50.0 <50.0	SAMPLE ID GRO C6-C12 (mg/kg) DRO (mg/kg) TPH (mg/kg) BENZENE (mg/kg) SB3 15' <50.0	SAMPLE ID GRO C6-C12 (mg/kg) DRO (mg/kg) TPH (mg/kg) BENZENE (mg/kg) TOLUENE (mg/kg) SB3 15' <50.0	SAMPLE ID GRO C6-C12 (mg/kg) DRO (mg/kg) TPH (mg/kg) BENZENE (mg/kg) TOLUENE (mg/kg) BENZENE (mg/kg) ETHYL-BENZENE (mg/kg) ENZENE (mg/kg) ENZE

Extraction Date:	03/24/06	03/24/06	03/24/06
Analysis Date:	03/24/06	03/24/06	03/24/06
Method Blank	<50.00	<50.00	<50.00
LCS		re recipi	
True Value LCS			
LCS % Recovery			
Matrix Spike (MS)	200		461
Matrix Spike Dup (MSD)		4 44 10	477
True Value Matrix Spike			500
MS % Recovery			92.2%
MSD % Recovery			95.4%
Matrix Spike RPD			3.4%
FLACS.			

98.0%	93.0%	97.0%	98.3%
ar make	er tra		Paragraphic Control
	1		
7			
	A same		e see jakes
	Spring State		96 (KE 64)
3.9%	5.2%	4.1%	4.8%

LAGS

Methods: SW-846 8015 M; BTEX-MTBE SW-846 8021B, 5030B

Chemist

Date

H10916-2BTEX-TPHSOIL[1].xls



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

Receiving Date: 03/21/06 Reporting Date: 03/24/06

Analysis Date: 03/22/06 Sampling Date: 03/20/06

Project Number: MONUM 04ES003

Sample Type: SOIL Project Name: GRAHAM RESOURCES LAUGHLIN BURN PIT Sample Condition: COOL & INTACT

Project Location: MONUMENT, NM

Sample Received By: NF

Analyzed By: AB

		Cl
LAB NUMBER	SAMPLE ID	(mg/L)
H10916-1	SB1 3'	16
H10916-2	SB1 5'	16
H10916-3	SB1 10'	128
H10916-4	SB1 15'	496
H10916-5	SB1 20'	704
H10916-6	SB1 25'	656
H10916-7	SB1 30'	176
H10916-8	SB2 3'	16
H10916-9	SB2 5'	16
H10916-10	SB2 10'	16
H10916-11	SB2 15'	160
H10916-12	SB2 20'	256
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent	Difference	2.0

METHOD: Standard Methods 4500-CIB

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



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

Receiving Date: 03/21/06 Reporting Date: 03/24/06

Project Number: MONUM 04ES003

Project Name: GRAHAM RESOURCES LAUGHLIN BURN PIT Sample Condition: COOL & INTACT

Project Location: MONUMENT, NM

Analysis Date: 03/22/06 Sampling Date: 03/20/06

Sample Type: SOIL

Sample Received By: NF

Analyzed By: AB

4		CI
LAB NUMBER	SAMPLE ID	(mg/Kg)
H10916-13	SB3 3'	16
	SB3 5'	16
H10916-14		16
H10916-15	SB3 10'	
H10916-16	SB3 15'	176
H10916-17	SB3 20'	304
H10916-18	SB4 3'	16
H10916-19	SB4 5'	16
H10916-20	SB4 10'	16
H10916-21	SB4 15'	16
H10916-22	SB4 20'	16
H10916-23	SB5 3'	16
H10916-24	SB5 5'	16
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent	Difference	2.0

	T
METHOD: Standard Methods	4500-CIB

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

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, unfulfiting 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.





ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON

P.O. BOX 805

HOBBS, NM 88241

Receiving Date: 03/21/06 Reporting Date: 03/24/06

FAX TO: (505) 397-0397

Project Number: MONUM 04ES003

Sampling Date: 03/20/06 Sample Type: SOIL

Analysis Date: 03/22/06

Project Name: GRAHAM RESOURCES LAUGHLIN BURN PIT Sample Condition: COOL & INTACT

Project Location: MONUMENT, NM

Sample Received By: NF

Analyzed By: AB

LAB NUMBER	SAMPLE ID	(mg/Kg)
H10916-25	SB5 10'	32
H10916-26	SB5 15'	208
H10916-27	SB5 20'	224
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent	Difference	2.0

METHOD: Standard Methods 4500-CIB

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

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7001 Fax (915) 673-7001

)	フナ ナナロ		ANALYSIS REQUEST
COMPANY NAMES BAC LATERIA	Ond Inc.			
Project Manager (1:1) Brung on		P.O.# 45-157648		
Address: 1324 W. Marland	j	company: Amerada Hess		
hbs	1M 21p: 88240	Attn: Rander Barnes	9	,
# 505- 397- 6388F	505-397-0397		70	
11 M MES 2003 Project	Amerada Hess	chy: Seminole	W	
7	hlin Burn Pit	State: TX ZIp:		
ı \	9	Phone #:	S	
Dm	1	Fax #:		
	MATRIX	PRESERV. SAMPLING		
÷	EB HBJ			
Lab I.D. Sample I.D.	FAMOR TAWGE MATE	ASE: JOOL	7-18 Hd	
	EAR(D) FOUNT	ACIO/8.		
111hall 1 92 3	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		7 / /	
-2 GB -	>	1 3/20/02 1119 am	\ \ \ \ \	
1 4 P 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V 3/20/06 113 am	N N N	
381	G 9 V	~ 3/20/01 1142 am	XXX	
1.0	2	V 3/20/06 115 am	****	
	<u>\$</u>	N 3/20/061205 pm	1 × × ×	
381	G 1 W	~ 3/20/00/1225. pm	X X X	
-8 582 3'	2	V 3/20/06 135 pm	X X X	
362	G - <	1 3/20/06/140 pm	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
-10/382 10'		V 3/30/06 15 2 gm	\ \ \ \ \ \	THEM AND CONTROLED IN MANY AND DESCRIPTION OF SECRETARIES AND A PARTY OF THE SECRETARIES AND
PLESE NOTE: Linear and Norman Contract states and death and and an analysis of the second states and the september of the september of the september and the september and the september and the september of the	onsi belang inneg ja ay sama ang mana. Tang akataonan pind bi bengalang ang at ang inneg inni pental by Carlam With 30 days ahar banpedon of he sp Sanasa caraon, talah on tipos fathand balone teoripidas, los ol use, or bes of poles trained by clear, in subsidiaries.	id by Cardinal mittin 30 days wher bompleden of the heptic se, or best of profits imparted by offers, he subsidiation,	1 7	30 days part day it for form of the internal contraction and it notes at contraction, that Acts offerway's laws.
	services becaried by Cardral, toloudess of whether auxil claim's bos	each claim is besed upon any of the above stated reasons or effective.	96 \ □	o [Addil Phone #:];
	Kecelved Dy;	Fax Result.		1 1
TIEB:		NEWWIN	<u>.</u>	
Relinquished By 3/2	LLOC Received By: (Lab Start)	100		·. ·
	5 pm / let 1w	CHECKED BY:		
Selivered by: Circle One	Cool Intact			
Sampier urs - Bus - Ourer.	ON ON	7/4		

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

101 East Marland, Hobbs, NM 88240 ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79503

per emera from the artginal data of Dombo 00 6 Dage 2 REQUES 30 days part dax X his and at seets of collection ANAL YSIS Add' Phone *: Add' Fax # 11 Kg BLEX 88 □ \ 83 □ \ 5108 JOW HOLL Phlaride Shone Result spirator of the sepatemble he substitution. 4merada Hess 223 pm 245 pm 3/20/06/240 pm 3/20/06 305 pm 3/20/06/318 pm 234 pm 3/20/04 310 pm 200pm 3/20/06/207 pm TIME SAMPLING 3/25/06 3/20/02 3/20/00 MESONS Project Owner: Honerada Hess City: Semino DATE I wakasa urbasa moda in mriiting and saceinad by Cardinal master 30 days when som P.O. #. 45-157 ECKED BY: BILL (505) 393-2326 Fax (505) 393-2478 Attn: Kandey 3 (Initials) PRESERV. Company: : ABHTO State: 1 Address: Phone #: ICE / COOF Fax #: **ACID/BASE** STHER: Cool Intact

No No SENDGE 397-6388 Fax# 505-397-0397 Sample Cond State: NM 21p: 88240 MATRU CKUDE OIL BWrnt lab ROIT Received By: **MASTEWATER** GROUNDWATER Larahlin # CONTAINERS nternational (G) RAB OR (C) OMP. ভাতা (915) 673-7001 Fax (915) 673-7020 Date; 21/06 Cardon's Sabaty and chours exclusive remody for any Srwng on and Project Name: Craham KeBONKLES Time: Mari Sample I.D. nayawa, id owina mataka) bosa ka nagioenza watany sawa cacae Nonumen 10 9 WM 20 Sampler - UPS - Bus - Other: By: (Circle One Company Name: BBC 138 3 383 3 - 48B3 W -13/5B Z 8B 4 S 00 2 Project #: MON U.M **SB**2 -1380 1324 -178B Sampler Relinquished Phone #: 505--2013 Chy: Hobbs Project Manager: Project Location: Sampler Name: H10916-11 0) 1 FOR US USE CRLY = ELSE HOTE: LEADY Lab I.D. paysynbujie Address:

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

£

KARDINAL LABORATORIES, INC.

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

1)			ANALYSIS REQUEST
なから、よ	1 The			ł
Project Manager (1:1) Brung on		P.O. #: 45-157648	-	
Address: 1324 W. Marland		Company: Amerada Hess		
bos	2lp: 88240	Attn: Rander Barnes		•
10 E SAK- 397- 1388F	297-0397		<i>1</i>	
Σ	Amerac	y: Seminole	'n	
R		State: TX Zlp:	· .	
		Phone #:	<u> </u>	
Sampler Name: Amm Ruth	TEXE			
	MATRIX	PRESERV. SAMPLING		
;	2S TER		, ,	
Lab I.D. Sample I.D.		EB: COOT	718 Hd-	
-	# со! ВАМ 1085	_	1	
HI0911, 2, 384 15'	7	-	\rangle \rangl	
384	611	md 25 20 02/8 /	2 2 2	
	0 1 9	V 3/20/06/415 pm	ンシン	
	7	M8/12/02/2 /	X X X	
-X3B5 10'	G 1 V	V 3/26/06 427pm	577	
	G -	V 3/20/06 432pm	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
5	G11 V	N 3/20/06 438 pm	ス / V	
And today to the way demand on the Conference of	The second property of lot, the	n engine or jet, that by finded to the amount paid by the edent for the		Term and Conditions like and in the payod on all scours more from
PERSENCIFE LOOKY AN UNITYME, CACHARITYMEN THE ANTICOMEN THE STATE OF THE STATE OF THE STATE OF THE COMPOSITION OF THE COMPOSITION OF THE TREATMENT AND ANTICOMEN AND ANTICOMEN THE TREATMENT AND ANTICOMEN AND ANTIC	4 doesned waked whose made in writing and received by makena fertinden, businesse baempalens, bose of use,	r Carofinal initials 30 days ofter composition of the hopids or loss of profits incurred by others, he subsidiarios,	*	30 days pure than at the total of 26% per unturn from the propose does or homes and as could not cookedons, the latter accounts from a
INCHE OF COMMENT WATER OLD OF CORRATIONS OF SOMEWAY DEFENDED IN CARDON FORMATOR	y Cardral, rependent of whether such dain is besed to	auch claim is based upon any of the shore stated seasons or otherwise.	t: Nyes	ı
Sampler Keinquisned:	Abcelved by:	Fax Regult:	□ Yes □ No	Add' Fax#:
Time:		KEMAKK	<u>.</u>	- -
12/	Received By: (Lab Suart)			
5:15	pm " Uch Twee	CHECKED BY:		_ 7.
Controlled By: Circle One	Cool Infact	(Inffigle)		
Sampier - UPS - Bus - Other:	No No	11.4		

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

APPENDIXIII

Site Photographs

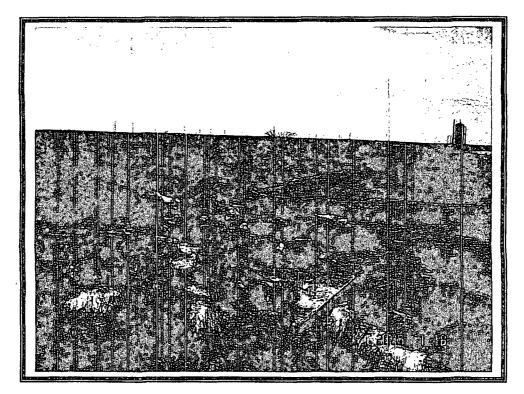
Graham Resources Laughlin Battery #82
Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

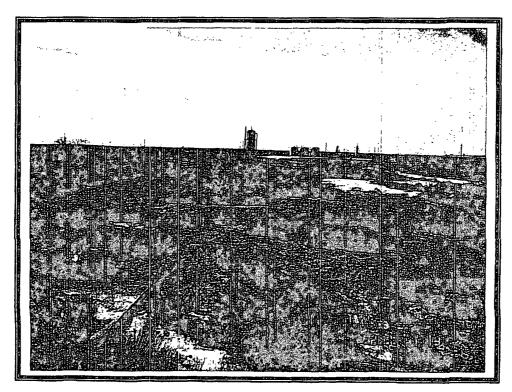
June, 2006

Prepared by: BBC International, Inc.



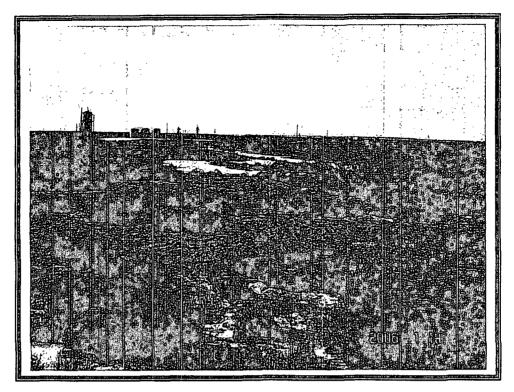


Graham Resources Laughlin Battery #82

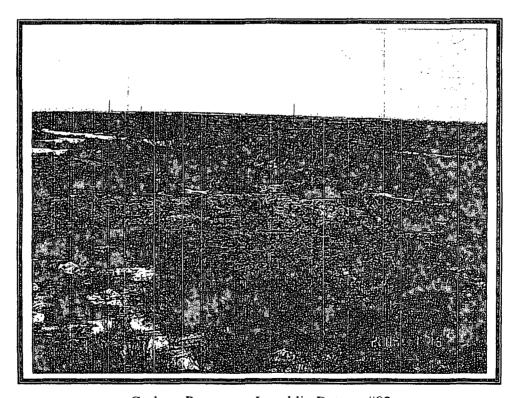


Graham Resources Laughlin Battery #82



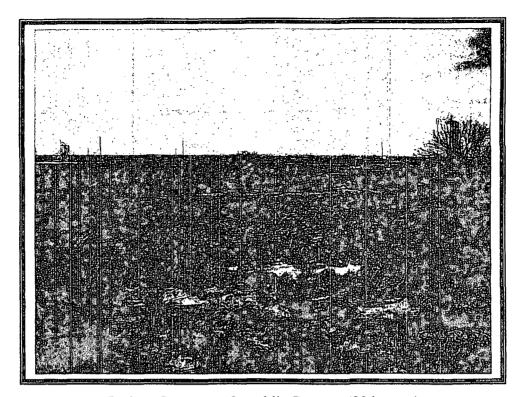


Graham Resources Laughlin Battery #82



Graham Resources Laughlin Battery #82



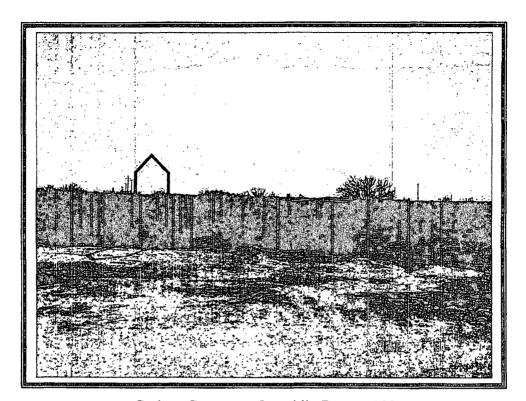


Graham Resources Laughlin Battery #82 burn pit

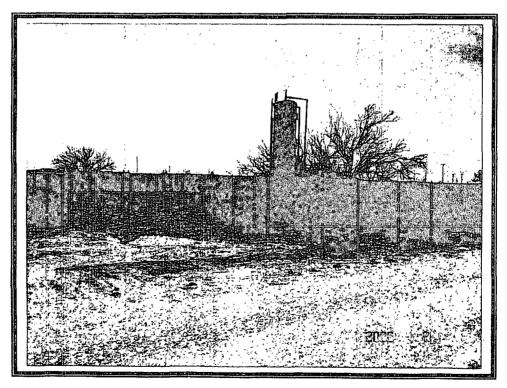


Graham Resources Laughlin Battery #82



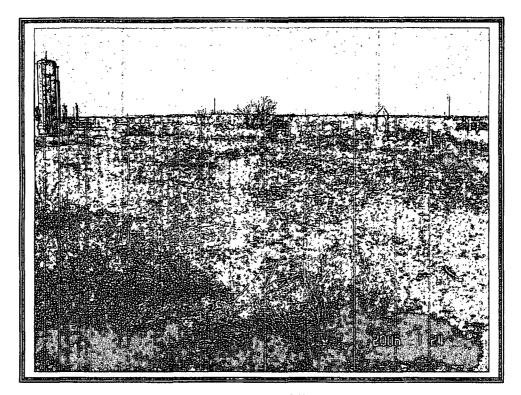


Graham Resources Laughlin Battery #82

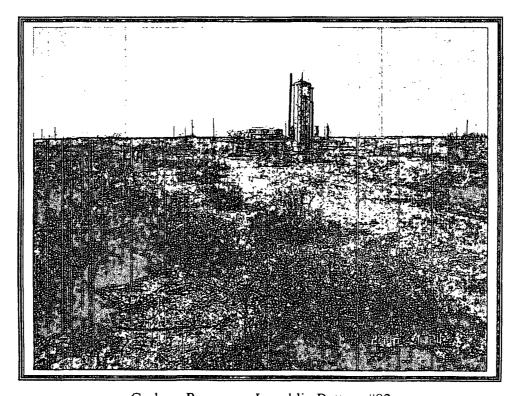


Graham Resources Laughlin Battery #82



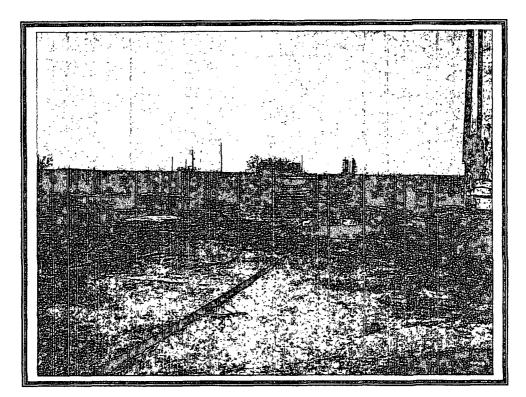


Graham Resources Laughlin Battery #82

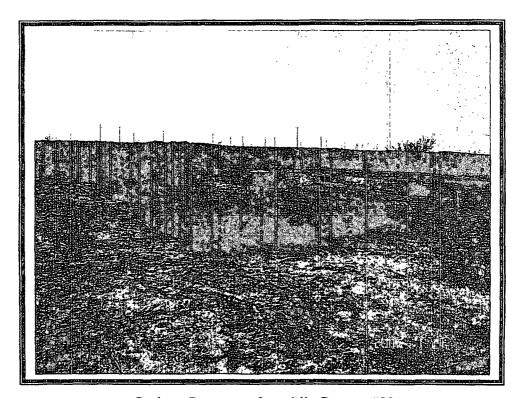


Graham Resources Laughlin Battery #82



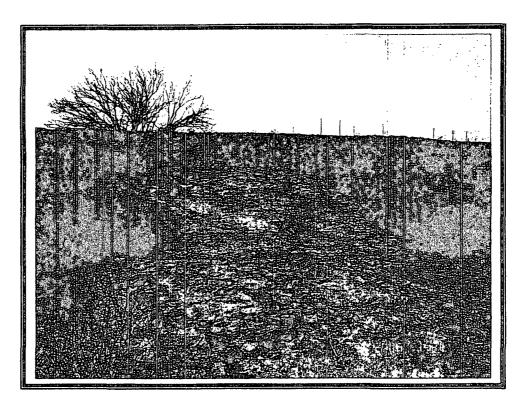


Graham Resources Laughlin Battery #82

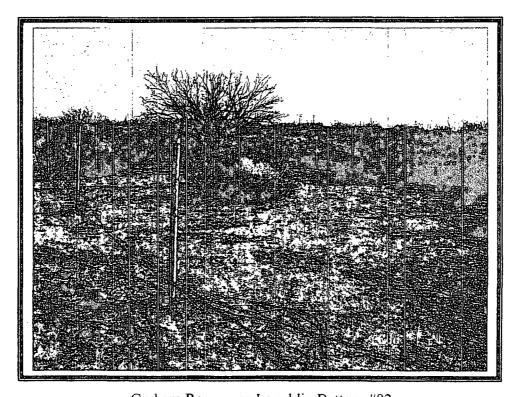


Graham Resources Laughlin Battery #82



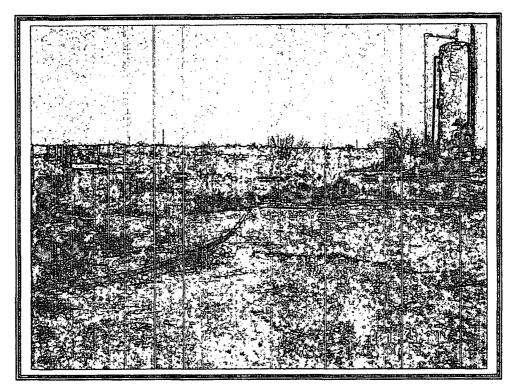


Graham Resources Laughlin Battery #82

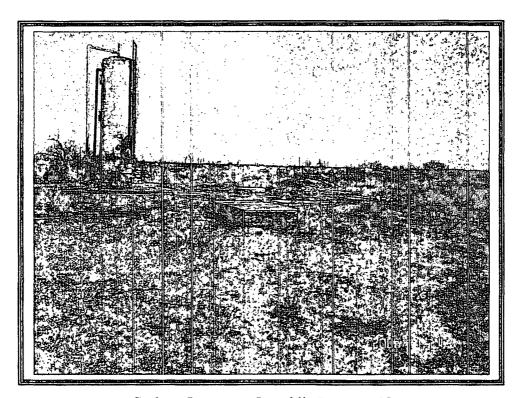


Graham Resources Laughlin Battery #82



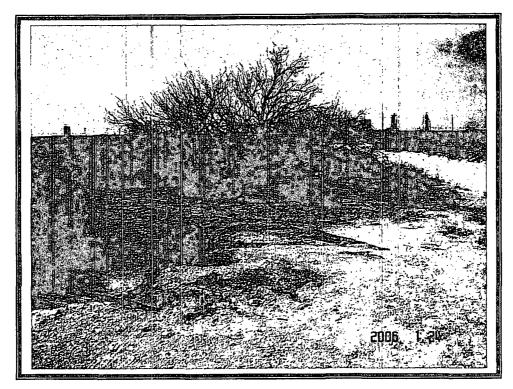


Graham Resources Laughlin Battery #82

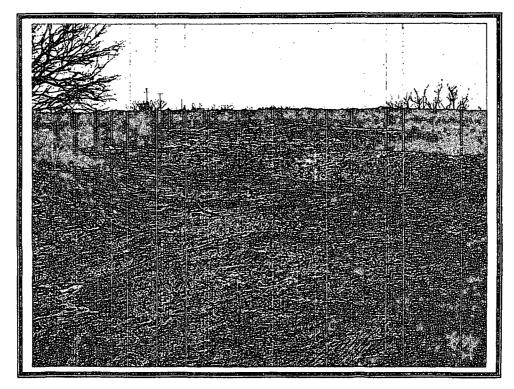


Graham Resources Laughlin Battery #82



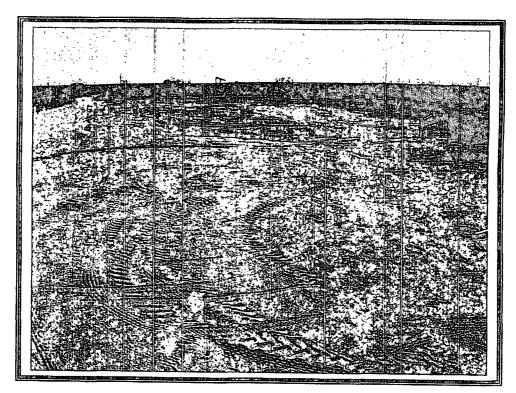


Graham Resources Laughlin Battery #82

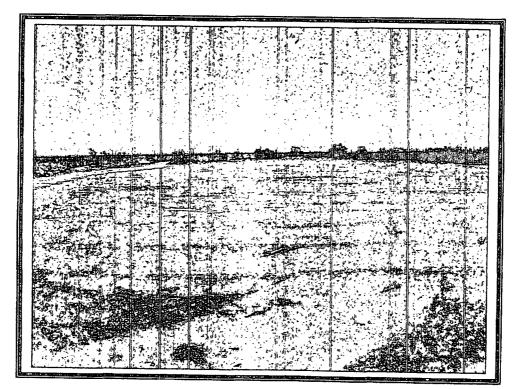


Graham Resources Laughlin Battery #82 burn pit



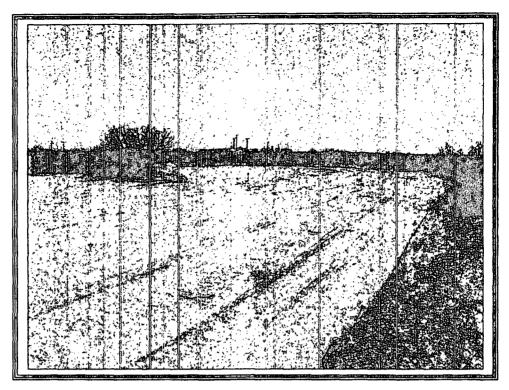


Graham Resources Laughlin Battery #82 after excavation complete

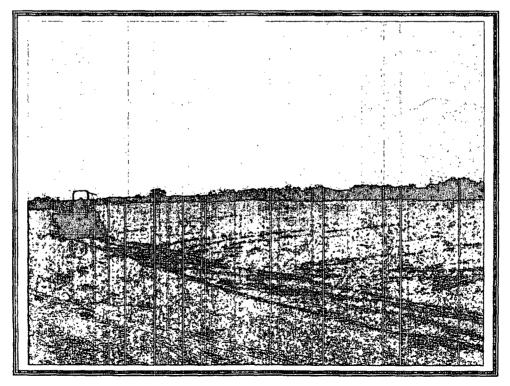


Graham Resources Laughlin Battery #82 after backfill



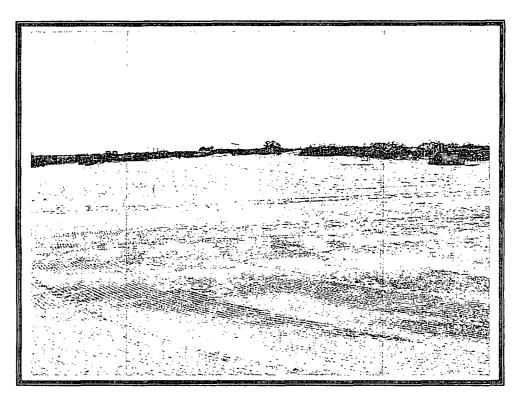


Graham Resources Laughlin Battery #82 burn pit and east end of battery after backfill



Graham Resources Laughlin Battery #82 reseeding





Graham Resources Laughlin Battery #82 reseeding

APPENDIX IV

Correspondences

Graham Resources Laughlin Battery #82
Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

June, 2006

Prepared by: BBC International, Inc.

Amy C. Ruth

From: Amy C. Ruth [Amy@bbcinternational.com]

Sent: Thursday, March 09, 2006 12:16 PM

To: 'psheeley@state.nm.us'

'rbarnes@hess.com'; 'jbaker@hess.com'; 'Cliff P. Brunson'; Jennifer (jgilkey@bbcinternational.com)

Subject: Sampling Events - Amerada Hess Monument Abandoned Batteries

Paul,

Cc:

BBC collected samples for Amerada Hess at the Chevron Kutter "A" Battery 24 on March 3, 2006 from the bottom of the excavated area. Of those samples, all results of analyses were within guidelines with the exception of one sample in the north central portion of the site that had an elevated TPH result. Amerada has excavated this area, and BBC will resample the floor of the north central part of the excavation on Monday, March 13, 2006 at 9:30 am. The site is located about a mile north of Monument, just off of Highway 8 to the west.

After the sample is collected from the Chevron Kutter "A" Battery 24, BBC will proceed from that site to the Graham Resources Laughlin Battery 82 located about two miles south of Monument, NM and off of Highway 8 to the west. BBC will collect samples from the bottom of the excavation.

Following are legals and GPS coordinates for your convenience. *Please call me if you have questions*. Thank you.

Chevron Kutter "A" Battery 24

NW, SE, Sec 20, T-19S, R-37E

N 32° 38.540' W 103° 16.295'

Graham Resources Laughlin Battery 82

Sec 5, T-20S, R-37E

N 32° 35.780' W 103° 16.205'

Amy C. Ruth

Environmental Scientist BBC International, Inc. Phone: 505-397-6388

Cell: 505-441-5252

Amy C. Ruth

From: Amy C. Ruth [Amy@bbcinternational.com]

Sent: Friday, March 17, 2006 10:43 AM

To: 'psheeley@state.nm.us'

Cc: 'rbarnes@hess.com'; 'jbaker@hess.com'; 'Cliff P. Brunson'; Jennifer (jgilkey@bbcinternational.com)

Subject: Drilling and Sampling Event - Amerada Hess Graham Resources Laughlin Battery #82

Paul,

BBC International, Inc. will conduct drilling and sampling on Monday March 20, 2006 at 8:00 am for Amerada Hess at the site of a former burn pit on the southwestern side of the Graham Resources Laughlin Battery 82. The excavated battery is located two miles south of Monument, NM and off of Highway 8 to the west. Following are legals and GPS coordinates for your convenience. *Please call me if you have questions.* Thank you.

Graham Resources Laughlin Battery 82

Sec 5, T-20S, R-37E

N 32° 35.780′ W 103° 16.205′

Amy C. Ruth Environmental Scientist BBC International, Inc.

Phone: 505-397-6388 Cell: 505-441-5252

Amy C. Ruth

From: Barnes, Randy [RBarnes@Hess.com]

Sent: Friday, March 24, 2006 8:34 AM

To: psheeley@state.nm.us

Cc: Baker, Jay; jgikey@bbcinternational.com; Amy@bbcinternational.com

Subject: Closing Sampling Amerada Hess Abandoned Batteries

BBC International, Inc. will take closing samples at the Amerada Hess abandoned battery Oryx JL Barr battery 13 at 8:00am Wednesday morning, March 29th, 2006. The site is located northwest of the intersection of Maddox road and Pearl Valley at Monument, NM.

Immediately following, BBC will proceed to the Texaco Skelly 'F' State battery 27 site to collect closing samples from that location as well. The Texaco 'F' is located east of the Oryx JL Barr across Maddox road or south on hwy, 8 approx. 5 miles and turn back to the west.

Immediately following, BBC will proceed to the Graham Laughlin Battery 82 site to collect closing samples from that location as well. BBC collected closing samples on March the 3rd from the bottom of the excavated area. Of those samples, all were under required limits with the exception of one sample at the southwest corner. This sample had a TPH-DRO level of 314ppm. Amerada Hess has excavated this area, and BBC will resample the floor of the southwest corner at this time. This site is located two miles south of Monument, NM and off of Highway 8 to the west.

The following are legals and GPS coordinates for your convenience. Please call me if you have questions. Thank you.

Oryx JL Barr battery 13 Unit Letter M, Sec 24, T-19S, R-36E

N 32¢° 38.537' w 103¢° 18.834'

TEXACO SKELLY 'F' STATE BATTERY

Unit Letter G, Sec 20, T-19S, R-37E N 32¢^a 39.075' W 103¢^a 16.727'

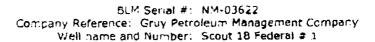
GRAHAM LAUGHLIN BATTERY 82

Unit Letter P, Sec 5, T-20S, R-37E N 32¢^a 35.780' W 103¢^a 16.205'

Randy Barnes
Production Supervisor
Amerada Hess Corporation
rbarnes@hess.com

432-209-4240

PHICHARK



Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

lb/acre
51bs/A
5lbs/A
3lbs/A
δlbs/A
2lbs/A
llbs/A

^{**}Four-winged Saltbush

Pounds of seed x percent purity x percent germination = pounds pure live seed

⁵lbs/A

^{*} This can be used around well pads and other areas where caliche cannot be removed.

^{*}Pounds of pure live seed:

Safety Protocol:

- 1. All work will be performed in a safe manner.
- 2. A tailgate safety meeting will be conducted each morning prior to initiation of work. A limited hazard analysis will be done based on the scheduled tasks.
- 3. No excavation or sampling will be performed without clearing the area of utility lines.
- 4. Boom up/down will not be performed without visual confirmation that the overhead area is clear of obstructions.
- 5. Call sheet and directions to local hospital will be available to all on-site personnel.

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 Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

- ZMAIL ATTACHMENTS GOODIDGA

Form C-141

Revised October 10, 2003

Release Notification and Corrective Action

						OPERA	COR	_	Initia	nitial Report X Final Report			
Name of Co	mpany	Hess Corpor			Contact R	andy Barnes	رح						
Address P.	O. Box 84	I0, Seminole	360		Telephone No. (432) 758-6778								
Facility Name Graham Resources Laughlin Battery #82						Facility Type Abandoned Tank Battery							
Surface Owner Mineral Owner						r Lease No.							·]
LOCATION OF RELEASE													
Unit Letter	Section	Township	Feet from the	~	South Line	Feet from the	East/V	West Line	County				
	Doction.	20 manp	Range		1.0.02	20427 23							ĺ
O 5 20S 37E													
	29' Latitude 32° 35.780' Longitude 103° 16.205'												
NATURE OF RELEASE													
Type of Relea						Volume of				Recovered U			
Source of Rel		known					our of Occurrenc	e l	Date and	Hour of Disc	overy	<u>'</u>	
Was Immedia	ite Notice C		Yes [No X Not Re	anied	If YES, To	Whom?			1	967	AS 5	
		L	ies _	I NO IXI NOLK	zquii cu				/ O)				İ
By Whom?						Date and H	our		/ ₆₀	A =	=	2	
Was a Watero	ourse Reac					If YES, Vo	lume Impacting t	he Wate		OH CC	- 12)	112	
☐ Yes X No									262	Ceiv Hobbs		7	
If a Watercou	rse was Im	pacted, Descri	be Fully.*	•					12	0		Z Z	
12273 ~ 1123/													
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.													
												1	
Describe Area	Affected a	and Cleanup A	ction Tak	en.*					······································				
					NMO	CD approve	d landfarm. Bei	fore ba	ckfilling, c	losing sam	oles	were	
							an soil, contour				,		
		•	J				,	,					ļ
I hereby certif	fy that the i	nformation of	ven ahove	ic true and comp	lete to th	ne hest of my	knowledge and u	nderetar	d that nurc	uant to NMC	CD.	ulec 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, OIL CONSERVATION DIVISION													
Signature: My & ulb							OIL CONS	SEKV	ATION	DIVISIO	N		į
						Tive Face							
					Approved by District Supervisor:								
Printed Name	: Amy (C. Ruth				Jan Jan San							
Title: Envi	ronmental	Scientist		Approval Date: 1.12.06 Expiration Date:									
E-mail Addre	s: amy@	bbcinternat			Conditions of Approval:				Attached				
Date: 6/00	106		DI	(EDE) 208 (22	.					Attaclied []			
Date: 6/20/ Attach Addit		ets If Necessa		(505) 397-638	8								
IN FOTORE: - SHE RANKING OF REDUIRED CLEANUP ON REL - PIX ARE GOOD,													
,		J.,	1-111-11	10-m 0-(, mm			こう じて カイ		升 ペルチ	ke awi	' (

LIST ALL SANTLES IN TAKE FORMAT W/ DEPTH LISTED