

# **HESS CORPORATION**

## TEXACO "J" STATE BATTERY #15 LEA COUNTY, NEW MEXICO RP# 1109

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

October 12, 2006

PREPARED FOR:

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

# Hess Corporation Texaco "J" State Battery #15

### **1.0 INTRODUCTION**

The subject site is north of Monument, New Mexico in Lea County in Unit Letter L and M, of Section 24, Township 19 South, and Range 36 East. The site is an abandoned tank battery. 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 entire site measures approximately 70,000 square feet. There is one water source within 1,000 horizontal feet of the site. There is no surface water within 1,000 horizontal feet of the site. Based on data from the Office of the State Engineer, 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. Excavation of the battery location began on April 24, 2006. The burn pit was located approximately 150 feet south of the battery location on May 12, 2006. Excavation of the burn pit began on May 23, 2006.

NMOCD was notified on June 7, 2006 of drilling and sampling to occur at the site burn pit on June 9, 2006.

On June 9, 2006, BBC personnel drilled five (5) soil borings at the burn pit which was excavated to 10 feet below ground surface (bgs). A borehole was placed in the center floor of the pit and four (4) boreholes were placed in the area immediately surrounding the pit. Soil samples were collected from each borehole at 3 bgs, 5 feet bgs, and at every five foot interval thereafter. BBC screened all samples with a photoionization detector (PID) and field chloride tests. Samples were submitted to a laboratory for analyses depending on screen results, as were all samples from the 20 foot bgs range. A total of 16 samples from the burn pit were analyzed for total petroleum hydrocarbons (TPH) – gasoline range organics (GRO)/diesel range organics (DRO), chloride, and benzene-toluene-

ethylbenzene-xylene (BTEX). At SB1 in the center floor of the pit, four (4) samples were submitted for analyses. The sample at 3 feet bgs contained 1,970 ppm GRO, 10,700 ppm DRO, 80 ppm chlorides, 0.289 ppm benzene, 0.125 ppm toluene, 0.290 ppm ethylbenzene, and 2.700 ppm total xylenes. The 5 foot bgs sample contained 1,420 ppm GRO, 7,040 ppm DRO, 48 ppm chlorides, nondetectable levels of benzene, 0.723 ppm toluene, 1.535 ppm ethylbenzene, and 7.018 ppm total xylenes. The sample at 10 feet bgs had 516 ppm GRO, 3,430 ppm DRO, 48 ppm chlorides, 0.194 ppm benzene, 0.096 ppm toluene, 0.582 ppm ethylbenzene, and 1.900 ppm total xylenes. The 20 foot bgs sample had 120 ppm GRO, 2,030 ppm DRO, 96 ppm chlorides, 0.007 ppm benzene, 0.006 ppm toluene, 0.018 ppm ethylbenzene, and 0.060 ppm total xylenes. At SB2 on the northwest side of the pit, four (4) samples were submitted for analyses. The sample at 5 feet bgs was non-detect for GRO and DRO, contained 208 ppm chlorides, and was non-detect for BTEX. The 10 foot bgs sample was non-detect for GRO and DRO, had 32 ppm chlorides, and was non-detect for BTEX. The sample at 20 feet bgs was non-detect for GRO and DRO, had 16 ppm chlorides, and was non-detect for BTEX. The 25 foot bgs sample contained non-detectable levels of GRO, 32.7 ppm DRO, 32 ppm chlorides, and non-detectable levels of BTEX. SB3 was drilled on the west side of the burn pit, and 6 samples were submitted for analyses. The 3 foot bos sample contained non-detectable levels of GRO, 112 ppm DRO, 304 ppm chlorides, and non-detectable levels of BTEX. The sample at 5 feet bgs was non-detect for GRO and DRO, had 832 ppm chlorides, and was non-detect for BTEX. The sample a 10 feet bgs was nondetect for GRO, contained 6,160 ppm DRO, 368 ppm chlorides, and was nondetect for BTEX. The 15 foot bgs sample was non-detect for GRO and DRO, had 3,007 ppm chlorides, and was non-detect for BTEX. The sample at 20 feet bgs was non-detect for GRO and DRO, contained 4,447 ppm chlorides, and was non-detect for BTEX. The 23 foot bgs sample was non-detect for GRO and DRO, had 1,200 ppm chlorides, and was non-detect for BTEX. SB4 was drilled on the south side of the burn pit, and a 20 foot bgs sample was submitted for analyses. GRO and DRO were non-detect, chlorides were 48 ppm, and BTEX was non-detect. SB5 was drilled on the southeast side of the burn pit, and a 20 foot bgs sample was submitted for analyses. GRO and DRO were non-detect, chlorides were 32 ppm, and BTEX was non-detect. All site diagrams including sample points 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 notified NMOCD on June 12, 2006 of final sampling to take place at the battery excavation on June 14, 2006. Six (6) soil samples were collected and submitted to a laboratory for analyses. The samples were all taken at a depth no greater than 1 foot bgs. GRO and DRO were non-detect in all samples, chlorides ranged from non-detect to 128 ppm, and BTEX was non-detect in all samples.

On June 20, 2006, BBC notified NMOCD of results for samples collected from the battery excavation, and that backfill of the battery would begin on June 23, 2006.

On June 26, 2006, a flare line area was excavated to about 1 foot bgs, and BBC collected 3 samples from the floor of the excavation. GRO was non-detect in all samples, DRO ranged from non-detect to 45.3 ppm, chlorides ranged from 16 ppm to 48 ppm, and BTEX was non-detect in all samples.

On July 3, 2006, NMOCD was notified that BBC would collect closing samples from the flare line excavation on July 6, 2006. Laboratory analyses showed that GRO was non-detect for all samples, DRO ranged from non-detect to 93.5 ppm, chlorides ranged from non-detect to 32 ppm, and BTEX was non-detect for all samples except the center sample in which toluene was 0.010 ppm.

Notification of laboratory results for the flare line closing samples was sent to NMOCD on July 11, 2006 along with a statement that the flare line excavation would be backfilled on July 14, 2006.

On July 5, 2006 BBC sent an email to NMOCD confirming an agreement to backfill the burn pit. NMOCD approved the backfill the same day. Hess was not required to excavate further. The excavation was backfilled with clean caliche up to four (4) feet bgs. A compacted clay layer of one (1) foot thickness was installed. The remaining three (3) feet of the excavation was backfilled with clean topsoil.

Site excavation was completed on June 16, 2006, and 6,656 yards of contaminated soil was hauled to a landfarm. Backfilling and contouring was completed with a total of 4,636 yards of clean soil on August 2, 2006. The site was seeded on September 25, 2006.

### 4.0 CONCLUSION

According to the Office of the State Engineer, depth to groundwater is less than 50 feet. There is one water source and no surface water bodies within 1,000 horizontal feet. Therefore, the laboratory data for this site indicates that BTEX, TPH (GRO/DRO), and chloride levels are within NMOCD guidelines.

# **APPENDIX I**

### **Site Diagrams**

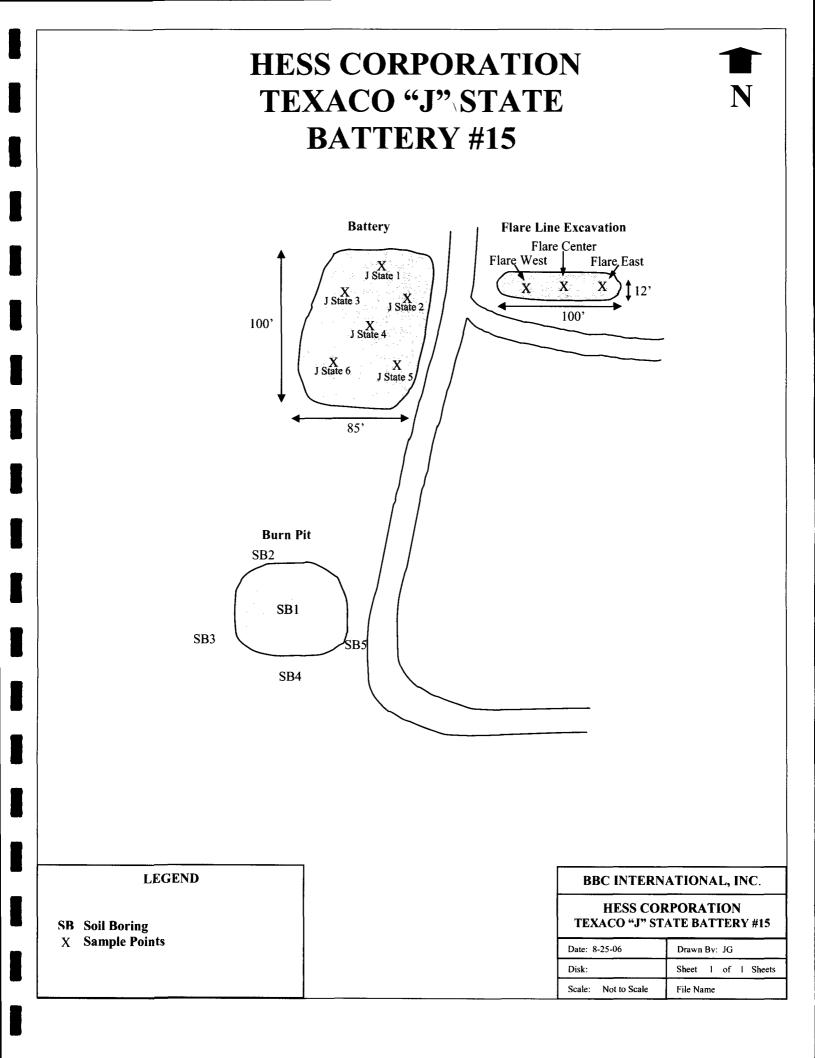
# Texaco "J" State Battery #15

Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.



# **APPENDIX II**

## Laboratory Analytical Results

Texaco "J" State Battery #15

Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.



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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: 6/12/06 Project Owner: AMERADA HESS Project Number: MONUM 06ES001 Project Name: TEXACO NM J STATE BATTERY #15 Project Location: MONUMENT, NM Reporting Date: 6/16/06

Sampling Dates: 6/9/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By:HM Analyzed By: JC

LAB ID	SAMPLE ID	GRO	DRO				ETHYL-	TOTAL
		C6-C12	>C12-C28		BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/kg)	(mg/kg)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
H11214-1	SB1 3'	1970	10700		0.289	0.125	0.290	2.700
H11214-2	SB1 5'	1420	7040		<0.010	0.723	1.535	7.018
H11214-3	SB1 10'	516	3430		0.194	0.096	0.582	1.900
H11214-4	SB1 20'	120	2030		0.007	0.006	0.018	0.060
H11214-5	SB2 5'	<50.0	<50.0		< 0.002	<0.002	<0.002	<0.006
H11214-6	SB2 10'	<50.0	<50.0		< 0.002	<0.002	<0.002	< 0.006
H11214-7	SB2 20'	<50.0	<50.0		<0.002	<0.002	<0.002	< 0.006
H11214-8	SB3 3'	<50.0	112		< 0.002	<0.002	<0.002	< 0.006
H11214-9	SB3 5'	<50.0	<50.0		< 0.002	<0.002	<0.002	< 0.006
H11214-10	SB3 10'	<50.0	6160		< 0.002	<0.002	<0.002	<0.006
H11214-11	SB3 15'	<50.0	<50.0		< 0.002	<0.002	<0.002	< 0.006
H11214-12	SB3 20'	<50.0	<50.0		< 0.002	<0.002	<0.002	< 0.006
H11214-13	SB3 23'	<50.0	<50.0	GRO/DRO	< 0.002	< 0.002	<0.002	< 0.006
H11214-14	SB4 20'	<50.0	<50.0	Total	< 0.002	<0.002	<0.002	< 0.006
H11214-15	SB5 20'	<50.0	<50.0	(mg/kg)	< 0.002	<0.002	<0.002	<0.006
Extraction Date	):	06/15/06	06/15/06	06/15/06	06/15/06	06/15/06	06/15/06	06/15/06
Analysis Date:		06/15/06	06/15/06	06/15/06	06/15/06	06/15/06	06/15/06	06/15/06

Extraction Date:	06/15/06	06/15/06	06/15/06	06/15/06	06/15/06	06/15/06	06/15/06
Analysis Date:	06/15/06	06/15/06	06/15/06	06/15/06	06/15/06	06/15/06	06/15/06
Method Blank	<50.00	<50.00	<50.00	< 0.002	<0.002	<0.002	< 0.006
LCS			1	0.100	0.110	0.110	0.325
True Value LCS	152250534			0.100	0.100	0.100	0.300
LCS % Recovery				100%	110%	110%	108%
Matrix Spike (MS)			449	1 2 2 3			
Matrix Spike Dup (MSD)			387	N			
True Value Matrix Spike			400	1.00			
MS % Recovery		1	112.0%				C. Philip
MSD % Recovery		54 K	96.7%	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
Matrix Spike RPD			14.9%	11.0%	11.4%	6.8%	6.3%
FLAGS:			•		L	I	

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

6/16/D6 Date

H11214BTEX-TPHSOIL[1].xls

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CL

(mg/kg)

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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: 06/12/06 Reporting Date: 06/15/06 Project Owner: AMERADA HESS Project Name: TEXACO NM J STATE BATTERY #15 Project Location: MONUMENT, NM Analysis Date: 06/12/06 Sampling Date: 06/09/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: AB

H11214-1	SB1 3'	80
H11214-2	SB1 5'	48
H11214-3	SB1 10'	48
H11214-4	SB1 20'	96
H11214-5	SB2 5'	208
H11214-6	SB2 10'	32
H11214-7	SB2 20'	16
H11214-8	SB3 3'	304
H11214-9	SB3 5'	832
H11214-10	SB3 10'	368
Quality Cont	rol	990
True Value (	2C	1000
% Recovery		99
Relative Per	cent Difference	0.0

METHOD: Standard Methods 4500-CI<sup>-</sup>B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Weno

06-15-06 Date

#### H11214

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LAB NO. SAMPLE ID



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Receiving Date: 06/12/06 Reporting Date: 06/15/06 Project Owner: AMERADA HESS Project Name: TEXACO NM J STATE BATTERY #15 Project Location: MONUMENT, NM Analysis Date: 06/12/06 Sampling Date: 06/09/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: AB

LAB NO.	SAMPLE	١D
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Cl<sup>---</sup> (mg/kg)

H11214-11 SB3 15'	3007
H11214-12 SB3 20'	4447
H11214-13 SB3 23'	1200
H11214-14 SB4 20'	48
H11214-15 SB5 20'	32
·	
Quality Control	990
True Value QC	1000
% Recovery	99
Relative Percent Difference	0.0

METHOD: Standard Methods4500-CIBNOTE: Analyses performed on 1:4 w:v aqueous extracts.

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06-15-06 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: 06/14/06 Reporting Date: 06/16/06 Project Owner: HESS CORP. Project Name: TEXACO J STATE BATTERY 15 Project Location: MONUMENT, NM Sampling Date: 06/09/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/HM

GRO DRO (C<sub>6</sub>-C<sub>10</sub>) (>C<sub>10</sub>-C<sub>28</sub>) CI\* (mg/Kg) (mg/Kg) (mg/Kg)

LAB NUMBER SAMPLE ID

ANALYSIS DATE	06/15/06	06/15/06	06/14/06
H11225-1 SB2 25'	<10.0	32.7	32
· · · ·			
Quality Control	769	785	990
True Value QC	800	800	1000
% Recovery	96.1	98.1	99.0
Relative Percent Difference	5.0	0.4	1.0

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

Burgess a Cook

6/16/05

H11225A

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Receiving Date: 06/14/06 Reporting Date: 06/16/06 Project Owner: HESS CORP. Project Name: TEXACO J STATE BATTERY 15 Project Location: MONUMENT, NM Sampling Date: 06/09/06 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	06/15/06	06/15/06	06/15/06	06/15/06
H11225-1 SB2 25'	<0.005	<0.005	<0.005	<0.015
Quality Control	0.096	0.092	0.095	0.293
True Value QC	0.100	0.100	0.100	0.300
% Recovery	95.7	92.3	95.4	97.5
Relative Percent Difference	5.4	0.7	4.7	4.7

METHOD: EPA SW-846 8260

yest for

6/16/05

Date

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DRATORIES, INC.     Dilene, TX 79603     101 East Mariand, Hobbs, NM 88240       x (915) 673-7020     (605) 393-2326 Fax (505) 393-2376     BILLER       x 5 cr     x (115) 673-7020     (605) 393-2326 Fax (505) 393-2376       x 12 minimum     x (505) 393-2326 Fax (505) 393-2376       x 12 minimum     Pinoment       x 12 minimum     Pinoment       x 12 minimum     Pinoment       x 12 minimum     Pinoment       x 2 minim     Pinoment   <	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST		2		· ·	1.2.	8	(~)	27	71		PYG							30 ontri pare dare at the lane ut and the and	: DYes D.No Add! Phone #: 1	8		·			
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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: 06/14/06 Reporting Date: 06/16/06 Project Number: MONUM06ES001 Project Name: TEXACO NM J STATE BATTERY 15 Project Location: MONUMENT, NM Sampling Date: 06/14/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/HM

LAB NUMBER SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE	06/16/06	06/16/06	06/14/06
H11229-1 J STATE 1	<10.0	<10.0	128
H11229-2 J STATE 2	<10.0	<10.0	32
H11229-3 J STATE 3	<10.0	<10.0	<16
H11229-4 J STATE 4	<10.0	<10.0	<16
H11229-5 J STATE 5	<10.0	<10.0	<16
H11229-6 J STATE 6	<10.0	<10.0	<16
	1		
Quality Control	778	763	990
True Value QC	800	800	1000
% Recovery	97.3	95.4	99.0
Relative Percent Difference	3.5	7.5	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI<sup>-</sup>: Std. Methods 4500-CI<sup>-</sup>B \*Analyses performed on 1:4 w:v aqueous extracts.

un eto fl Cooke

6/16/06 Date

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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 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 06/14/06 Reporting Date: 06/16/06 Project Number: MONUM06ES001 Project Name: TEXACO NM J STATE BATTERY 15 Project Location: MONUMENT, NM Sampling Date: 06/14/06 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	06/15/06	06/15/06	06/15/06	06/15/06
H11229-1 J STATE 1	<0.005	<0.005	<0.005	<0.015
H11229-2 J STATE 2	< 0.005	< 0.005	<0.005	<0.015
H11229-3 J STATE 3	< 0.005	< 0.005	<0.005	<0.015
H11229-4 J STATE 4	< 0.005	<0.005	<0.005	<0.015
H11229-5 J STATE 5	<0.005	<0.005	<0.005	<0.015
H11229-6 J STATE 6	<0.005	<0.005	<0.005	<0.015
Quality Control	0.096	0.092	0.095	0.293
True Value QC	0.100	0.100	0.100	0.300
% Recovery	95.7	92.3	95.4	97.5
Relative Percent Difference	5.4	0.7	4.7	4.7

METHOD: EPA SW-846 8260

Buyess A. Cooke

16/09

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Name: BBC Internations anager: Cliff Brunson 1324 h.J. Marland Ebs State:NNIZID: 88 505-397-6388		(505) 393-2326 Fax (50	6 Fax (505) 393-2476				Page /	of
anager: Cliff Brunson 1324 W. Märland bbs state:NMZID: 88 505-397-6388					ANALYSIS	SIS REQUEST	1.	
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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: 06/27/06 Reporting Date: 06/30/06 Project Number: MONUM 06ES001 Project Name: J-STATE Project Location: MONUMENT, NM Sampling Date: 06/26/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: BC/HM

	•	GRO	DRO	
		(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	Cl*
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DA	TE	06/28/06	06/28/06	06/29/06
H11288-1	FLARE LINE WEST 1'	<10.0	45.3	48
H11288-2	FLARE LINE CENTER 1'	<10.0	37.2	16
H11288-3	FLARE LINE EAST 1'	<10.0	<10.0	32
Quality Contro	1	763	750	960
True Value Q0	)	800	800	1000
% Recovery		95.3	93.8	96.0
Relative Perce	ent Difference	5.5	6.4	3.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI<sup>-</sup>: Std. Methods 4500-CI<sup>-</sup>B \*Analyses performed on 1:4 w:v aqueous extracts.

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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: 06/27/06 Reporting Date: 06/30/06 Project Number: MONUM 06ES001 Project Name: J-STATE Project Location: MONUMENT, NM Sampling Date: 06/26/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: BC

LAB NUMBE SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE	06/29/09	06/29/06	06/29/06	06/29/06
H11288-1 FLARE LINE WEST 1'	<0.005	<0.005	<0.005	< 0.015
H11288-2 FLARE LINE CENTER 1'	<0.005	<0.005	<0.005	<0.015
H11288-3 FLARE LINE EAST 1'	<0.005	<0.005	<0.005	<0.015
Quality Control	0.091	0.098	0.092	0.300
True Value QC	0.100	0.100	0.100	0.300
% Recovery	91	98.1	92	100
Relative Percent Difference	9.8	1.7	5.9	1.9

METHOD: EPA SW-846 8260

130/06

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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: 07/06/06 Reporting Date: 07/10/06 Project Number: MONUM 06ES001 Project Name: TEXACO J STATE BATTERY 15 Project Location: MONUMENT, NM

Sampling Date: 07/06/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: BC/HM

LAB NUMBE	R SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS D	DATE	07/08/06	07/08/06	07/07/06
H11321-1	FLARE WEST 1'	<10.0	93.5	32
H11321-2	FLARE CENTER 1'	<10.0	27.0	<16
H11321-3	FLARE EAST 1'	<10.0	<10.0	<16

H11321-1	FLARE WEST 1'	<10.0	93.5	32
H11321-2	FLARE CENTER 1'	<10.0	27.0	<16
H11321-3	FLARE EAST 1'	<10.0	<10.0	<16
Quality Cont	rol	771	793	960
True Value C	2C	800	800	1000
% Recovery		96.4	99.2	96.0
<b>Relative</b> Per	cent Difference	3.5	0.9	4.2

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

Chemist Althe Cooly

7/10/06

#### H11321A

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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 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 07/06/06 Reporting Date: 07/10/06 Project Number: MONUM 06ES001 Project Name: TEXACO J STATE BATTERY 15 Project Location: MONUMENT, NM

Sampling Date: 07/06/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DA	ГЕ	07/08/06	07/08/06	07/08/06	07/08/06
H11321-1	FLARE WEST 1'	<0.005	<0.005	<0.005	<0.015
H11321-2	FLARE CENTER 1'	<0.005	0.010	<0.005	<0.015
H11321-3	FLARE EAST 1	<0.005	<0.005	<0.005	<0.015
Quality Control		0.102	0.101	0.102	0.292
True Value QC		0.100	0.100	0.100	0.300
% Recovery		102	101	102	97.5
<b>Relative Percer</b>	nt Difference	2.0	1.2	1.7	2.6

METHOD: EPA SW-846 8260

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10/06

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	CHAIN-C	37

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# **APPENDIX III**

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## **Site Photographs**

# Texaco "J" State Battery #15

Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.





Texaco "J" State Battery #15 burn pit excavation



Texaco "J" State Battery #15 burn pit excavation



BBC I

ÍNAL

Texaco "J" State Battery #15 burn pit excavation



Texaco "J" State Battery #15 tank battery excavation



BBC I

NAL

Texaco "J" State Battery #15 tank battery excavation



Texaco "J" State Battery #15 tank battery excavation





Texaco "J" State Battery #15 flare line area before excavation



Texaco "J" State Battery #15 burn pit excavation



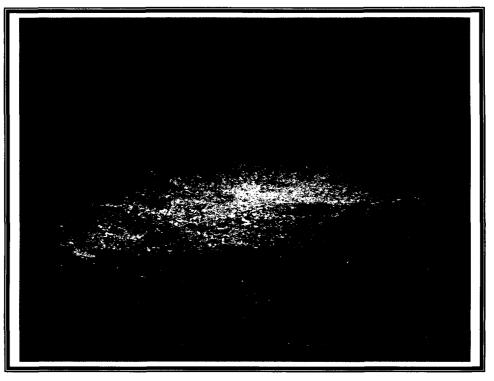
-DHAUL

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Texaco "J" State Battery #15 burn pit excavation



Texaco "J" State Battery #15 backfilled tank battery



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Texaco "J" State Battery #15 flare line area before excavation



Texaco "J" State Battery #15 burn pit clay liner

88C 1

Texaco "J" State Battery #15 burn pit clay liner

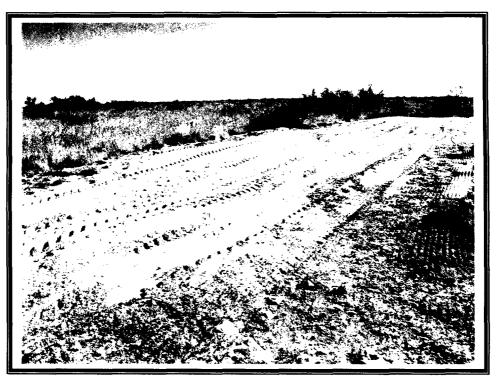


Texaco "J" State Battery #15 burn pit clay liner—addition of water for compaction



BBC IF PNALL

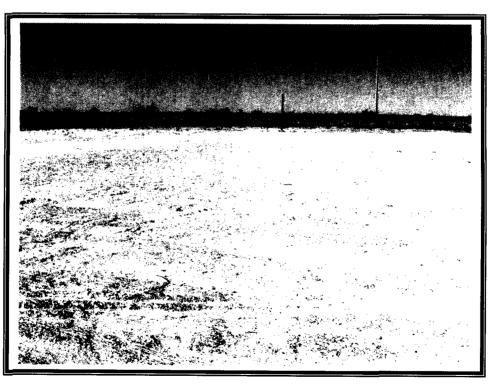
Texaco "J" State Battery #15 clay liner compaction



Texaco "J" State Battery #15 flare line area after reseeding



Texaco "J" State Battery #15 tank battery area after reseeding



Texaco "J" State Battery #15 burn pit area after reseeding

# **APPENDIX IV**

### Correspondences

## Texaco "J" State Battery #15

Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.

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

Sent: Wednesday, June 07, 2006 3:55 PM

To: 'psheeley@state.nm.us'

Cc: 'drewhall@hess.com'; 'Small, Sam'; 'Barnes, Randy'; Jennifer (jgilkey@bbcinternational.com)

Subject: Sampling Event Updates - Hess Corporation Abandoned Tank Batteries

### Paul,

Soil boring sampling that began yesterday on the Texaco State G Lact Unit Battery 22 will need to continue tomorrow, June 8, 2006, beginning at 8:00 am. Therefore, soil boring sampling of the Texaco NM J State Battery 15 burn pit may take place as soon as Thursday afternoon June 8, 2006 and/or on Friday, June 9, 2006. Both sites are in the vicinity of the Cooper water station on Maddox Road. Please call me if you have questions or need directions. Following is legal information for both sites.

### Texaco State G Lact Unit Battery 22

Unit Letter N Sec 19 T19S R37E

Texaco J State Battery 15 Unit Letter L&M Sec 24 T19S R36E

Also, in the email sent to you on Monday June 5, 2006, BBC had scheduled collecting closing samples from the tank battery excavation at the Texaco J State Battery 15. Sampling was to take place on Friday June 9, 2006 at 8:30 am. Sampling of this site will proceed when drilling and sampling of the sites mentioned above are completed. As it stands, closing samples at this location will be collected next week. Details will follow.

Thank you,

### Amy C. Ruth

Environmental Scientist BBC International, Inc. Phone: 505-397-6388 Cell: 505-441-5252

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

Sent: Monday, June 12, 2006 11:10 AM

To: 'psheeley@state.nm.us'

Cc: 'Barnes, Randy'; 'drewhall@hess.com'; 'Small, Sam'; Jennifer (jgilkey@bbcinternational.com); 'Cliff P. Brunson'

Subject: Sampling Event - Hess Corp Abandoned Battery in Monument

Paul,

BBC will collect closing samples at the Texaco NM J State Battery #15 north excavation at 8:30 am on Wednesday, June 14, 2006. This site is located northwest of the intersection of Pearl Valley and Maddox Road. Proceed approximately one half mile west of the Cooper Water Station. Please contact me if you have any questions.

Texaco NM J State Battery #15 Unit Letter L&M Sec 24 T19S R 36E

Thank you,

Amy C. Ruth Environmental Scientist BBC International, Inc. Phone: 505-397-6388 Cell: 505-441-5252

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

Sent: Tuesday, June 20, 2006 8:44 AM

To: 'psheeley@state.nm.us'

Cc: 'Barnes, Randy'; 'drewhall@hess.com'; 'Small, Sam'; Jennifer (jgilkey@bbcinternational.com)

Subject: Backfill Event - Hess Corp Abandoned Tank Batteries in Monument

Paul,

BBC has received laboratory analyticals on closing samples taken for Hess Corp. at Texaco J State Battery 15. TPH and BTEX are non-detect and Chlorides are 128 ppm and below. Backfilling of the tank battery excavation will commence Friday June 23, 2006.

Texaco J State Battery 15 Unit Letter L&M Sec 24 T19S R36E

Please call me with any questions.

Thank you,

Amy C. Ruth Environmental Scientist BBC International, Inc. Phone: 505-397-6388 Cell: 505-441-5252

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

**Sent:** Monday, July 03, 2006 1:46 PM

To: 'cwilliams@state.nm.us'

Cc: Sheeley, Paul, EMNRD; 'Barnes, Randy'; 'drewhall@hess.com'; 'Cliff P. Brunson'; Jennifer (jgilkey@bbcinternational.com)

Subject: Sampling Event - Hess Corp Abandoned Battery in Monument

Chris,

On behalf of Hess Corporation, BBC will collect closing samples from the flare line area of the Texaco J State Battery 15 at 8:30 am on Thursday July 8, 2006. This site is located northwest of the intersection of Pearl Valley and Maddox Road. Proceed approximately one half mile west of the Cooper Water Station. Please contact me if you have any questions.

Texaco NM J State Battery #15 Unit Letter L&M Sec 24 T19S R 36E

Thank you,

Amy C. Ruth Environmental Scientist BBC International, Inc. Phone: 505-397-6388 Cell: 505-441-5252

- From: Amy C. Ruth [Amy@bbcinternational.com]
- Sent: Tuesday, July 11, 2006 5:39 PM
- To: 'cwilliams@state.nm.us'
- Cc: Sheeley, Paul, EMNRD; 'Barnes, Randy'; 'drewhall@hess.com'; 'Cliff P. Brunson'; Jennifer (jgilkey@bbcinternational.com)

Subject: Backfill Event - Hess Corp Abandoned Battery in Monument

Chris,

On behalf of Hess Corporation, this is to inform you that laboratory results for closing samples taken at the Texaco J State Battery 15 flare line excavation show that TPH levels did not exceed 93.5 ppm, chlorides were 32 ppm or less, and BTEX was non-detect in all samples except the center sample in which toluene was present at 0.010 ppm. As these results are within guidelines, the excavation will be backfilled on Friday, July 14, 2006. If you have any questions, please contact me.

Thank you,

### Amy C. Ruth

Environmental Scientist BBC International, Inc. Phone: 505-397-6388 Cell: 505-441-5252

From: Cliff P. Brunson [cbrunson@bbcinternational.com]
Sent: Thursday, July 06, 2006 10:51 AM
To: Drew Hall ; Randy Barnes; Amy C. Ruth; Jennifer Gilkey
Subject: FW: Hess Corp - Former Texaco "J" State Battery 15

FYI....

From: Williams, Chris, EMNRD [mailto:chris.williams@state.nm.us]
Sent: Thursday, July 06, 2006 7:21 AM
To: Cliff P. Brunson
Cc: Caperton, Patricia, EMNRD
Subject: RE: Hess Corp - Former Texaco "J" State Battery 15

Approved 7/5/06.

Chris Williams District 1 Supervisor

From: Cliff P. Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Wed 7/5/2006 4:51 PM
To: Williams, Chris, EMNRD
Cc: Drew Hall ; Randy Barnes; Amy C. Ruth; Sheeley, Paul, EMNRD; Jennifer Gilkey
Subject: Hess Corp - Former Texaco "J" State Battery 15

Chris,

This is to confirm our conversation this morning with you and Gary Wink concerning the closure of the Hess Corp. Former Texaco "J" State Battery 15 burn pit excavation. As agreed, Hess is not required to excavate any further and will close the excavation by backfilling the excavation with clean caliche up to four (4) feet below ground surface. A compacted clay cap of one foot thickness will then be installed with the remaining three (3) feet of the excavation to be backfilled with clean top soil. A final report detailing all site activities and laboratory data will be submitted to the NMOCD.

l appreciate your help in this matter. If you have any questions, please contact either myself or Amy Ruth at our office (505-397-6388).

Cliff

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Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland Blvd. Hobbs, NM 88240 USA Phone: (505) 397-6388 Fax: (505) 397-0397 E-mail: cbrunson@bbcinternational.com Web: www.bbcinternational.com

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> 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

Release Notificatio	n and Corrective Action							
	OPERATOR Initial Report X Final R							
Name of Company Hess Corporation	Contact Randy Barnes							
Address P.O. Box 840, Seminole, TX 79360	Telephone No. (432) 758-6778							
Facility Name Texaco "J" State Battery #15	Facility Type Abandoned Tank Battery							
Surface Owner Jim Cooper Fee & State Mineral Owner	Lease No.							
LOCATIO	ON OF RELEASE							
	h/South Line Feet from the East/West Line County							
L&M 24 19S 36E								
Latitude_32° 38.422'       Longitude_103° 17.600'         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?	If YES, To Whom?							
By Whom?	Date and Hour							
Was a Watercourse Reached?	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. S remediation plan was developed.	Site investigation was conducted in preparation for cleanup activities. A							
Describe Area Affected and Cleanup Action Taken.* Contaminated soil was removed from the site and taken to a NMC collected to confirm compliance to guidelines. The site was back	OCD approved landfarm. Before backfilling, closing samples were stilled with clean soil, contoured, and reseeded.							
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedi	the best of my knowledge and understand that pursuant to NMOCD fuges and notifications and perform corrective actions for relieves the may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability ate contamination that pose a threat to ground water, surface, water, human health does not relieve the operator of responsibility for compliance with any other							
Signature: Amy C. Ruth	OIL CONSERVATION DIVISION							
Title: Environmental Scientist	Approval Date: ((.B.OL Expiration Date:							
E-mail Address: amy@bbcinternational.com								
Date: 10/13/06 Phone: (505) 397-6388	Conditions of Approval: Attached							
* Attach Additional Sheets If Necessary facility - PPACO631326306 (hadent - nPACO631326481 (hadent - nPACO631326481 application - pPACO631326579	RP#1109							